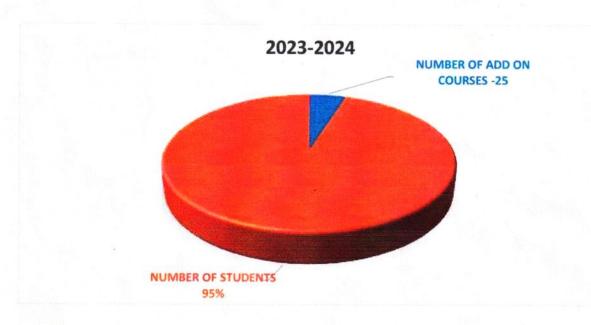


## The Oxford College of Pharmacy

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#### **LIST OF ADD-ON COURSES**

SI No	Academic Year	Number of Courses	Number of Students
1	2023-2024	25	491



#### **LIST OF ADD-ON COURSES 2023-2024**

SL NO	Department	Name of add on Course	Course Code	Number of students	
1	Department of Pharmacognosy	DNA typing in forensic science	DNATFC 2023-24	30	
2 Department of Bio Pharmacognosy		Biodegradation and bio remediation of Nicotine and Quercetin	BDRNQ 2023-24	25	
3	Department of Pharmacognosy	Advances in Cytogenetic technique	ACGT 2023-24	22	
4	Department of Pharmacognosy	Conservation of ebony and red sandal wood endangered plant species	CERSEPS 2023-24	10	
5	Department of Pharmacognosy	Mycology and plant pathology of Ashwagandha and Ocimum Sanctum.	MPPAO 2023-24	10	
6	Department of Pharmaceutical chemistry	Quantum Mechanics in medicinal Chemistry	QMMC	24	
Department of Pharmaceutical chemistry		Chemical hazards and their control	CHC 2023-24	30	



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8	Department of Pharmaceutical chemistry	Cheminformatics and molecular modeling	CMM 2023-24	20
9	Department of Pharmaceutical chemistry	Chiral Phytochemical Isolation and Characterization	CPIC 2023-24	15
10	Department of Pharmaceutical chemistry	Electrochemical Synthesis and Processing	ESP 2023-24	30
11	Department of Pharmacology	Medical Writing and Communications	MWC 2023-24	30
12	Department of Pharmacology	Digital Health and Pharmacy Informatics	DHPI 2023-24	15
13	Department of Pharmacology	AI in Pharmacy: Enhancing Student Learning	AIP 2023-24	15
14	Department of Pharmacology	Symptom Management in Palliative Care	SMPC 2023-24	14
15	Department of Pharmacology	Biomarkers in Neurodegenerative Disease	BND 2023-24	20
16	Department of Pharmacy practice	Adverse event reporting with emphasis on PV practice	AERPP 2023-24	25
17	Department of Pharmacy practice	Nutrition and Dietetics management for patients	NDM 2023-24	13
18	Department of Pharmacy practice	Introduction to basic life support methods	IBLSM 2023-24	30
19	Department of Pharmacy practice	Design of Questionaries' and scoring methods for Clinical assessment	DOQ 2023-24	15
20	Department of Pharmacy practice	Application of drug information softwares in Pharmacy Practice	ADISP 2023-24	23
21	Department of Pharmaceutics	Modernization in Pharma manufacturing techniques	MPMT 2023-24	12
22	Department of Pharmaceutics	Economic aspects of Pharmaceutical Inventions	EAPS 2023-24	11
23	Department of Pharmaceutics	Pharma logistics trends challenges and opportunities	PLTCO 2023-24	10
24	Department of Pharmaceutics	Sustainable and green pharmacy based pharmaceutical formulations	SGPF 2023-2024	21
25	Department of Digital therapeutics and smart DDS Pharmaceutics		DTSD 2023-24	21







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## List of Add-on courses from Academic Year 2023-2024

SLNO	PARTICULARS	PAGE NUMBER				
1	Abstract	1-2				
2	Index	3				
3	Add -on Courses of 2023-2024	4- 415				

P. Padwe

The Oxford College Of Pharmacy No 69.1st Cross, Begur Road, Hongasandra Bangalore - 560 068





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#### COURSE ON DNA TYPING IN FORENSIC SCIENCE

(Course Code: DNATFC2023-24)

Notice

Date: 01.01.2024

To

Notice Board

To be read in the class rooms

Course Coordinator- Mrs. Pavithra Devi. R

To be filed

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on DNA TYPING IN FORENSIC SCIENCES (Course Code: DNATFC2023-24) for the academic year 2023-24, for the benefit of B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 10<sup>th</sup> January 2024 and will be conducted every Wednesday and Thursday after the regular classes. The eligibility criteria include students pursuing Pharmacy degree, that is B. Pharm, interested students can enroll with Mrs. Pavithra Devi. R, Course coordinator on or before 4<sup>th</sup> January 2024.

COORDINATOR Mrs. Pavithra Devi. R.

HOD Dr Padmaa M. Paarakh PRINCIPAL
Dr Padmaa M. Paarakh



## **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
Course Co- ordinator	Mrs. Pavithra Devi. R Dept. of Pharmacognosy TOCP, Bengaluru.

## For Further Information Contact

Mrs. Pavithra Devi. R
Assistant Professor,
Department of Pharmacognosy,
TOCP, Bengaluru.
Email:
devipharma02@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D. Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

## **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., B. Pharm Students

# Course On "DNA TYPING IN FORENSIC SCIENCE"



Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacognosy, 1st Main Road., Hongasandra, Bengaluru, Karnataka -560 068

## **Important Dates**

**Duration: 30 hours** 

Last date for registration: 4th Jan 2024

Date of commencement: 10th Jan 2024

Final Examination: May 2024

## REGISTRATION

Registration	NIL
Fees	It is a free course offered
	by The Oxford College of
	Pharmacy, Bengaluru-68
Contact	Mrs.Pavithra Devi.R
person for	Course Co-ordinator
registration	8618064372

#### **STRUCTURE**

- Course will be conducted for total 30 hours after the college hours.
- Every Wednesday and Thursday after the college hours.

## **COURSE DESCRIPTION**

The Department of Pharmacognosy, TOCP, Bengaluru introduces a thirty hours course on **DNA TYPING IN**FORENSIC SCIENCE (Course code: **DNATFC2023-24).** This course offers the basic knowledge about DNA structural and functional analysis legal and ethical considerations etc.,

# OBJECTIVES OF THE PROGRAM

- To understand the DNA structure and functions, to understand the techniques DNA analysis, to interpreting DNA results and ethical and legal considerations.
- This certificate course will help the students in understanding the analyzing specific regions of DNA to identify individuals or determine genetic relationships. This technique is commonly used in forensic science to match biological samples, various principles of DNA structure and its role in forensic.

#### DURATION

30 hours beginning from 10<sup>th</sup> Jan 2024

## **OUTCOME**

- Provides an overview of DNA structure and functions, Analyze and interpret DNA evidence within the context of forensic cases
- Evaluate the legal and ethical considerations surrounding DNA evidence.
- Apply statistical concepts to assess the significance of DNA typing results in legal contexts.

#### **REGISTRATION PROCESS**

Students can directly contact respective course co-ordinator.

#### **FINAL ASSESSMENT**

Final exam will be conducted at the end of the syllabus.



## The Oxford College of Pharmacy

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#### **COURSE ON DNA TYPING IN FORENSIC SCIENCE**

(Course Code: DNATFC2023-24)

#### List of students

S. No.	Name of the Students	Signature
1.	HARSHATH S	Harris
2.	SILAMBARASAN R	Selous
3.	BHARATHVAJ I	Ken
4.	HEMANTH D R	(trailer
5.	SWAPNA V	Santa
6.	YASHASWINI S M	town -
7.	AMULYA S	Army -
8.	ANAND	Arand
9.	ANUSHA V	Anula
10.	KRISHNA R	Krsfura. R
11.	MOHAMMAD SHAFIQ N	Shartag. N
12.	SHARAVANTH KUMAR N	ghoavants Kurray
13.	SRI ABHINAYA S	@
14.	LAL REMRUATHI	Sour Salkin.
15.	SANI SAZIINI	Soni sogni
16.	YASHWANTH K	Youshwarek K
17.	AKISHITHA Y	AKNO
18.	AMRIN M	AQ_
19.	BISHAL KUMAR DEY	The same
20.	CHANDRAKANTH G	Chen
21.	DEEPIKA B R	Leede
22.	DHANESHWARI.C.C	Not
23.	DHANYATHA S GUPTA	Dha
24.	DIVYA.A	Kimas
25.	DRUTHI C	Due
26.	GNANAVI H R	gn-
27.	HARSHITHA K	Aordin
28.	HILAL AHMAD DAS	ndum
29.	JAYANTI MANDAL	Jugaran
30.	JHANAVI L REDDY	The and a

CO-ORDINATOR Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh P. Pad wo PRINCIPAL Dr Padmaa M. Paarakh

Oxford COLLEGE OF PHARMACY

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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### COURSE ON DNA TYPING IN FORENSIC SCIENCE

(Course Code: DNATFC2023-24)

#### **Syllabus**

Module	Chapter/Topic						
Module 1	Introduction to DNA in Forensic Science						
	Importance of DNA in criminal investigations						
	Molecular Biology Basics						
	Methods of DNA extraction from various biological samples						
	Laboratory safety protocols						
	Polymerase Chain Reaction (PCR)						
	Short Tandem Repeat (STR) Analysis						
Module 2	Mitochondrial DNA Analysis						
	DNA Databases and Their Use						
	Case Studies in DNA Evidence						
	Statistical Interpretation of DNA Evidence						
	Legal Aspects of DNA Evidence						
	Advanced Topics in DNA Typing						
	Ethical and Societal Implications						

CO-ORDINATOR
Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL
Dr Padmaa M. Paarakh





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## COURSE ON DNA TYPING IN FORENSIC SCIENCE

(Course Code: DNATFC2023-24)

#### **Attendance Statement**

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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## COURSE ON DNA TYPING IN FORENSIC SCIENCE

(Course Code: DNATFC 2023-24)

#### **Attendance Statement**

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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28	Hilal Ahmad Das	(m)	00	0	0	W	0	0	0	W	A	a	0	(10)	(No)	R
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#### COURSE ON DNA TYPING IN FORENSIC SCIENCE

(Course Code: DNATFC2023-24)

#### **SESSION PLAN**

SL.NO	DATE	DATE DAY		MODULE	FACULTY				
1	10-01-2024 Wednes		4:30-5:30 PM	INAUGURATION and Module-I	Dr. Padmaa. M. Paarakh Mrs. Pavithra Devi. R				
2	11-01-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
3.	17-01-2024	Wednesday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
4.	18-01-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
5.	24-01-2024	Wednesday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
6.	25-01-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
7.	31-01-2024	Wednesday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
8.	01-02-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
9.	07-02-2024	Wednesday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
10.	08-02-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
11.	14-02-2024	Wednesday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
12.	15-02-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
13.	28-02-2024	Wednesday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
14.	29-02-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
15.	06-03-2024	Wednesday	4:30-5:30 PM	Module I	Mr. Prathik Rai				
16.	07-03-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
17.	13-03-2024	Wednesday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
18.	14-03-2024	Thursday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R				
19.	20-03-2024	Wednesday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R				
20.	21-03-2024	Thursday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R				
21.	27-03-2024	Wednesday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R				
22.	28-03-2024	Thursday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R				



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23.	03-04-2024	Wednesday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
24.	04-04-2024	Thursday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
25.	10-04-2024	Wednesday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
26.	17-04-2024	Wednesday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
27.	18-04-2024	Thursday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
28.	24-04-2024	Wednesday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
29.	25-04-2024	Thursday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
30	02-05-2024	Thursday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
31	03-05-2024	Friday	4:30-5:30 PM	VALEDICTORY	Dr. Padmaa. M. Paarakh Mrs. Pavithra Devi. R

PPD4 CO-ORDINATOR

HOL

PRINCIPAL

Mrs. Pavithra Devi. R

Dr. Padmaa M. Paarakh



## The Oxford College of Pharmacy

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#### **COURSE ON DNA TYPING IN FORENSIC SCIENCE**

(Course Code: DNATFC2023-24)

#### **Completion Report**

The Department of Pharmacognosy, The Oxford college of Pharmacy, Bangalore, conducted a Course on DNA Typing in Forensic Science (Course Code: DNATFC2023-24) for the academic year 2023-24. The course was intended to impart knowledge to the students about the basics of DNA structure and its role in forensic science, Analyse and interpret DNA evidence within the context of forensic cases and to evaluate the legal and ethical considerations surrounding DNA evidence.

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh. The function was conducted at Room No-505 and all the participants were introduced by Course Coordinators Mrs Pavithra Devi. R. Total 30 students were present. Our principal had emphasized on the importance of doing such courses for betterment of their future. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs. Pavithra Devi. R

A total thirty hours course had been conducted after the college hours of every Wednesday and Thursday.

The syllabus of the course had been divided into two modules. After the completion of each modules an internal assessment was conducted and overall test was conducted after the completion of the course.

The results of module I, II, and overall were analysed. Approximately 33.33 % students scored grade A (marks percentage-100%) in all the tests followed by 40% who scored grade B (marks percentage-90%) and 16.6 % scored grade C (marks percentage-80%) and 10% scored grade D (marks percentage-70 and below %).

The performance of the students in the tests were found excellent. About Nintey percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 03/05/2024 and the course participation certificates were distributed to all 30 students by the Principal & Head of the Department Dr. Padmaa M Paarakh, and we had thanked management for providing best infrastructure for carrying out such courses. Behalf of department she promised to carry out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, had appreciated the enthusiasm of the students in this course and Congratulate the Department of Pharmacognosy and the course co-ordinator Mrs Pavithra Devi. R for successful completion of the course.

CO-ORDINATOR Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL Dr Padmaa M. Paarakh

Oxford COLLEGE OF PHARMACY

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



## The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;

Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON DNA TYPING IN FORENSIC SCIENCE

(Course Code: DNATFC2023-24)

#### **OUTCOME REPORT**

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore- 560068, completed course on DNA TYPING IN FORENSIC SCIENCES (Course Code: DNATFC2023-24). About 30 students were registered and the course was conducted for 30 hours. This course will help the students in understanding the DNA structure and functions, Analyze and interpret DNA evidence within the context of forensic cases

Course Outcome: At the end of this course students were able to

- Provides an overview of DNA structure and functions, Analyze and interpret DNA evidence within the context of forensic cases.
- Evaluate the legal and ethical considerations surrounding DNA evidence.
- Apply statistical concepts to assess the significance of DNA typing results in legal contexts.

The students were satisfied and were keen to attend such programs in future

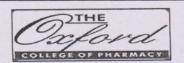
CO-OBDINATOR

Mrs. Pavithra Devi. R

HOD

Dr. Padmaa M. Paarakh

PRINCIPAL







# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Harshath 3 of Light B. Pharm year has undergone a course on DNA Typing in Forensic Sciences held at the Department of Pharmacognosy, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

HOD

P. (Pad wa\_ PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Swapna 9 of
Mi Sem Biphomo year has undergone a course on DNA Typing in Forensic
Sciences held at the Department of Pharmacognosy, The Oxford College of
Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR



P. Pad wo PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Amulya. S of
Vi stri B. Phom year has undergone a course on DNA Typing in Forensic
Sciences held at the Department of Pharmacognosy, The Oxford College of
Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR



PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. AMRINIM	of
VIBEN B phomo year has undergone a course on DNA Typing in Foren	ısic
Sciences held at the Department of Pharmacognosy, The Oxford College	of
Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.	

COURSE COORDINATOR

HOD

P. You we PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This	is	to	certify	that	Mr./Ms		Dorge	a · A			of
SI SE	n B.	Plas	ryear hu	as und	ergone a	course	on Dl	VA 7	Typing i	n Foren	sic
Science	es h	eld a	t the De	epartm	ent of Pi	harmaco	ognosy,	The	Oxford	College	of
Pharm	іасу,	Beng	galuru, K	Carnata	ka for th	e acadei	mic year	r 202.	3-2024.		

COURSE COORDINATOR

HOD

P. Pad wo PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy



## The Oxford College of Pharmacy

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#### Course on Biodegradation and Bioremediation of Nicotine and Quercetin

(Course Code: BDRNQ 2023-24)
NOTICE

Date: 11.07.2024

To

**Notice Board** 

To be read in the class rooms

Course Coordinator - Mrs. Chaithra K

To be filed

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on Biodegradation and Bioremediation of Nicotine and Quercetin for the academic year 2023-24, for the benefit B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 20<sup>th</sup> July 2024 and will be conducted after the college hours on Saturday and Monday. The eligibility criteria include students pursuing Pharmacy degree that is B. Pharm students. Interested students can enroll with Mrs. Chaithra K, Course coordinator on or before 17<sup>th</sup> July 2024.

CO-ORDINATOR

Mrs. Chaithra K

HOD

Dr. Padmaa M Paarakh

PRINCIPAL



## **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD	Dr. Padmaa M Paarakh,
Course	Chaithra K
Coordinator	Dept of
	Pharmacognosy
	TOCP, Bengaluru.

## For Further Information Contact

Chaithra K
Assistant Professor,
Department of Pharmacognosy,
TOCP, Bengaluru.
Email:
chaithragowdak95@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D. Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi Health Sciences, University of Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

## **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., B. Pharm Students.

## Course In

## "Biodegradation and

## **Bioremediation of Nicotine**

## and Quercetin"



#### Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacognosy, 1st Main Road., Hongasandra, Bengaluru, Karnataka -560 068

#### **Important Dates**

**Duration: 30 hours** 

Last date for registration: 17th July

2024

Date of commencement: 20th July 2024

Final Examination: October 2024

#### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact person for registration	Chaithra K Course Coordinator 7406031261

#### **STRUCTURE**

- Course will be conducted for Total 30 hours after the college hours.
- Every Saturday and Monday after the college hours

#### **COURSE DESCRIPTION**

The Department of Pharmacognosy, TOCP, Bengaluru introduces 30 hours Biodegradation and course on of Nicotine and Bioremediation Quercetin (Course Code: BDRNQ 2023-24). This course offers knowledge microbial degradation about various mechanisms and bioremediation techniques.

# OBJECTIVES OF THE PROGRAM

- Understanding of the biodegradation and bioremediation processes for nicotine and quercetin
- To know microbial degradation mechanisms and introduce bioremediation techniques.
- To know the role of biotechnology in enhancing degradation processes and developing effective remediation strategies environmental contaminants.

## FINAL ASSESSMENT

Final exam will be conducted at the end of the session.

#### **DURATION**

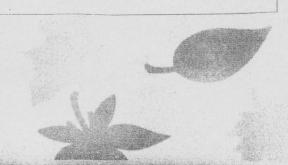
30 hours beginning from 20<sup>th</sup> July 2024

#### **OUTCOME**

- To understand and Evaluate the biochemical processes of nicotine and quercetin biodegradation by identifying key microbial species and their specific roles in degradation pathways.
- To know the bioremediation strategies to mitigate the environmental impact of nicotine and quercetin contamination.
- To understand environmentally friendly solutions in waste management.

## **REGISTRATION PROCESS**

Students can directly contact their Class teacher





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#### Course on Biodegradation and Bioremediation of Nicotine and Quercetin

(Course Code: BDRNQ 2023-24)

#### LIST OF STUDENTS

S.No.	Name of the Students	Signature
1.	Kamali R	Kan
2.	Keerthana K	8
3.	Keerthi	a contraction
4.	Keerthivasan A S	Caronanust
5.	Kiran A	Kisan
6.	Kokila Shree P	heimiles
7.	Kruthik R M	houtfule.
8.	Lakshmi T	Label
9.	Lalith Kishore	Jahren
10.	Lavanya M	Laus
11.	Lavanya.S	Jeneneyes.
12.	Madhudharshini R	July O
13.	Magesh S	magaella.
14.	Manash Pratim Taid	manaign
15.	Manoj A N	Monag.
16.	Meghna	my
17.	Mohamed Ashwaq S	AGNA .
18.	Mohammed Sameer H	Jun 1
19.	Mouneshwar V	Nu
20.	Mounika R	M
21.	Muralidharan C	Nous
22.	N Jeevitha	Seal
23.	N Nandhi shri	Nagadhishri
24.	Namitha	4
25.	Nandhini R	R. Nardhini

COURSE CO-ORDINATOR

Mrs Chaithra K

HOD

PRINCIPAL

Dr. Padmaa M Paarakh





## The Oxford College of Pharmacy

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## Course on Biodegradation and Bioremediation of Nicotine and Quercetin

(Course Code: BDRNQ 2023-24)

Attendance Statement																
s.N	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	2017	2017	22/	27/7	27/1	29/7	3/8	3/8		1018	10/8	218	17/8	118	1/2
1.	Kamali R	pu	ku	bur	مسا	(~	pur-	la	k-	p		10	12 1	test	- bud	De
2.	Keerthana K	10	Harry	000	DI	no	best	Dos	DIS	1007	+1	Der	4000	and .	0	0
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7.	Kruthik R M	lain	is	150	bis	bis	lui	4in	1em	lain	las	200	100	1-0	100	Lal
8.	Lakshmi T	St.	L	Lat	Laf,	Laf	Laf	iel	felo	Let	KA	10	1/4	17.	1	1
9.	Lalith Kishore	0-	lis.	Vai	1	lan	Nos	100	Jac )	len	111	12	la	Loy	Val	Lan
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## The Oxford College of Pharmacy

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## Course on Biodegradation and Bioremediation of Nicotine and Quercetin

(Course Code: MDTD 2023-24)

### **Attendance Statement**

S.N	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12 ,	13	14	15
	Date of the Class	24/8	26/20	318	3/8	29	_	19	e plas			79)9	2019	3819 our	19	5/10
1.	Kamali R	con	Kom	Dow	Kon	tu-	kun	w	con	10m	1/h	ام	10	1,	A	K
2.	Keerthana K	pu	m	m	W	KV	M	Fu	1	Y	In	R	1	h	h_	L
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4.	Keerthivasan A S	wo	de	00	8	8	00	8	9			The second	KA	K-AP	K.A	20.
5.	Kiran A	KA	Kul	Kf	K	Kt	KI	Kf	K	H	6u	Kat	-	NA	NO	m
6.	Kokila Shree P	0	ton	04	va	0	CO.	00	00	1.0		10	Kl	Kl	kl	KJ
7.	Kruthik R M	Ka	Ke	60	- Kl	KI	Kl.	KD	ED	KP	H	-	Lat	Cal	Laf	Lat
8.	Lakshmi T	Lal	Raf	Las	Laf	lat	Laf	A	lof	Lof	Laf	Las	KI	E)	ED	to.
9.	Lalith Kishore	160	P	10	PB	TO	10	10	Va	Lee	A	top be	VOIS.	Ver	Ca	P
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20.	Mounika R	M	M	A	M	A	A	100	10	\$0	No	松	100	Ass.	A	A
21.	Muralidharan C	A	M	M	M	N	ho	A	M	W	AI	W	M	M	N	
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## The Oxford College of Pharmacy

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## Course on Biodegradation and Bioremediation of Nicotine and Quercetin

(Course Code: BDRNQ2023-24)

Session Plan

Session Plan								
SL.NO	DATE	DAY	TIME	MODULE	FACULTY			
1	20.07.2024	Saturday	1:30 - 2:30PM	Inaugural	Mrs. Chaithra K			
2	20.07.2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K			
3	22.07.2024	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K			
4	27.07.2024	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K			
32	27.07.2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K			
6	29.07.2024	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K			
	03.08.2024	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K			
7	03.08.2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K			
9	05.08.2024	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K			
10	10.08.2024	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K			
11	10.08.2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K			
	12.08.2024	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K			
12	17.08.2024	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K			
14	17.08.2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K			
15	24.08.2024	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K			
16	24.08.2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K			
17	26.08.2024	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K			
18	31.08.2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K			
19	31.08.2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K			
20	02.09.2024	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K			
21	09.09.2024	Monday	4:00- 5:00PM	Module 2	Mrs. Syada Noor Madni			
22	14.09.2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K			
23	14.09.2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K			
24	21.09.2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K			
25	21.09.2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K			
26	23.09.2024	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K			
27	28.09.2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K			
28	28.09.2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K			
29	30.09.2024	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K			
1075703	05.10.2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K			
30	05.10.2024	Saturday	2:30 -3:30PM	Valedictory function	Mrs. Chaithra K			

COURSE CO-ORDINATOR

HOI

PRINCIPAL

Mrs Chaithra K

Dr. Padmaa M Paarakh

Dr. Padmaa M Paarakh



No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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#### Course on Biodegradation and Bioremediation of Nicotine and Quercetin

(Course Code: BDRNQ 2023-24)

#### Syllabus

MODULE	CHAPTER/TOPIC						
MODULE 1	Overview of Biodegradation and Bioremediation						
	Importance of Biodegradation in Environmental Science						
	Introduction to Nicotine: Sources and Environmental Impact						
	Introduction to Quercetin: Sources and Environmental Impact						
	Biochemical Pathways Overview						
	Microbial Metabolism: General Concepts						
	Biodegradation Pathways of Nicotine						
	Enzymatic Processes in Nicotine Degradation						
MODULE 2	Microbial Species Involved in Nicotine Biodegradation						
	Biodegradation Pathways of Quercetin						
	Enzymatic Processes in Quercetin Degradation						
	Microbial Species for Biodegradation of Quercetin						
	Role of Bacteria in Bioremediation						
	Role of Fungi in Bioremediation						
	Bioremediation Strategies for Nicotine Contamination						
	Bioremediation Strategies for Quercetin Contamination						

COURSE CO-ORDINATOR

Mrs Chaithra K

HOD

Dr. Padmaa M Paarakh





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(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

#### Course on Biodegradation and Bioremediation of Nicotine and Quercetin

(Course Code: BDRNQ2023-24)

#### **Completion Report**

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore, conducted Course on Biodegradation and Bioremediation of Nicotine and Quercetin (Course Code: BDRNQ2023-24) for the academic year 2023-24. This course offered knowledge about microbial degradation mechanisms and various bioremediation techniques.

The course was started with a formal inaugural function by welcoming the Principal Dr. Padmaa M Paarakh. The Function was conducted at Room NO -501 and all the participants were introduced by Course Coordinator Mrs Chaithra K. Total 25 students were present. Our principal Mam had emphasized on the importance of doing such courses in academics as well as in future also. The inaugural function has been summed up with the introductory lecture of course coordinator.

A total thirty-hour course had been conducted after college hours on Saturday and Monday. Total 25 students have enrolled for this course.

The syllabus of the course had been divided into two modules. After the completion of each module, test was conducted, and overall test was conducted after the completion of the course.

The results of the tests conducted for all the two modules and overall were analysed. Approximately 60 % students scored grade A (Marks percentage 95-100%) in all the tests followed by 30% who scored grade B (Marks percentage 90-94%) and 10% scored grade C (Marks percentage 85-89%). The performance of the students in the tests were found to be excellent. About ninety percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 05.10.2024 and the participation certificate were distributed to all 25 students by Principal Dr. Padmaa M Paarakh. The coordinator had thanked Principal and management for providing best infrastructure for carrying out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, had appreciated the enthusiasm of the students in this course and Congratulate the Department of Pharmacognosy and the course coordinator, Mrs Chaithra K for successful completion of course.

CO-ORDINATOR

Mrs Chaithra K

HOD

Dr. Padmaa M Paarakh

PRINCIPAL





## The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

#### Course on Biodegradation and Bioremediation of Nicotine and Quercetin

(Course Code: BDRNQ2023-24)

#### **OUTCOME REPORT**

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore-560 068, completed Course on Biodegradation and Bioremediation of Nicotine and Quercetin (Course Code: BDRNQ2023-24). About 25 students were registered and the course was conducted for 30 hours. This course offered knowledge about microbial degradation mechanisms and various bioremediation techniques.

**OUTCOMES**: At the end of this course students were able to

- To understand and evaluate the biochemical processes of nicotine and quercetin biodegradation by identifying key microbial species and their specific roles in degradation pathways.
- To know the bioremediation strategies to mitigate the environmental impact of nicotine and quercetin contamination.
- To understand environmentally friendly solutions in waste management.

The students were satisfied and were keen to attend such programmes in future.

CO-ORDINATOR

Mrs Chaithra K

HOD

Dr. Padmaa M Paarakh

PRINCIPAL





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. Kanaline R of Bipham Wisem has successfully completed course on Biodegradation and Bioremediation of Nicotine and Quercetin by Department of Pharmacognosy, held at The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



#6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr./Ms	Keesth?	of Bipham VI SEM
has successfully completed course on	Biodegradation	and Bioremediation of
Nicotine and Quercetin by Departmen	t of Pharmacogn	osy, held at The Oxford
College of Pharmacy, Bengaluru, Karna	ataka for the acad	demic year 2023-2024.

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. Knuthik RM of Bipham Vithsem has successfully completed course on Biodegradation and Bioremediation of Nicotine and Quercetin by Department of Pharmacognosy, held at The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms	Manoj AN Of B. Phanes sil SEN
has successfully completed course on	Biodegradation and Bioremediation of
Nicotine and Quercetin by Department of Pharmacognosy, held at The Oxford	
College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.	

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr./Ms. Noune Rale Rale of B-pham 11 sem has successfully completed course on Biodegradation and Bioremediation of Nicotine and Quercetin by Department of Pharmacognosy, held at The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



## The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

## Course on Advances in Cytogenetic Techniques

(Course Code: ACGT 2023-24)

NOTICE

Date: 02.01.2024

To

Notice Board

To be read in the class rooms

Course Coordinator - Mrs. Chaithra K

To be filed

The Oxford College of Pharmacy, Bangalore introduces a 30 hours Course on advances in cytogenetic technique for the academic year 2023-24, for the benefit of Pharm.D students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 13<sup>th</sup> January 2024 and will be conducted after the college hours on Saturday and Monday. The eligibility criteria include students pursuing Pharmacy degree that is Pharm.D students. Interested students can enroll with Mrs. Chaithra K, Course coordinator on or before 10<sup>th</sup> January 2024.

CO-ORDINATOR

Mrs Chaithra K

HOD

Dr. Padmaa M Paarakh

P. Pad wo



## Organizing Committee

Chairperson Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru. HOD Dr. Padmaa M Paarakh. Chaithra K Course

Coordinator Dept of

Pharmacognosy TOCP, Bengaluru.

## For Further Information Contact

Chaithra K Assistant Professor. Department of Pharmacognosy, TOCP, Bengaluru. Email: chaithragowdak95@gmail.com

## THE OXFORD COLLEGE OF **PHARMACY**

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D. Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences. Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

## **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., Pharm. D Students.

## Course

on

## "Advances in Cytogenetic

## **Techniques**"



Organized by

## THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacognosy, 1st Main Road., Hongasandra, Bengaluru, Karnataka -560 068

#### Important Dates

Duration: 30 hours

Last date for registration: 10th January

2024

Date of commencement: 13th January

2024

Final Examination : April 2024

# REGISTRATION

Registration NIL

Fees It is a free course offered

by The Oxford College of

Pharmacy, Bengaluru-68

Contact Chaithra K

person for Course Coordinator

registration 7406031261

### **STRUCTURE**

- Course will be conducted for Total 30 hours after the college hours.
- Every Saturday and Monday after the college hours

### COURSE DESCRIPTION

The Department of Pharmacognosy, TOCP, Bengaluru introduces 30 hours course on Advances in Cytogenetic Techniques (Course Code: ACGT 2023-24). This course offers knowledge about various Cytogenetic Techniques and its advances applied in various fields.

# OBJECTIVES OF THE PROGRAM

- To gain knowledge about the importance and uses various cytogenetic techniques like Fluorescence In Situ Hybridization (FISH), Comparative Genomic Hybridization (CGH), and Next-Generation Sequencing (NGS)-based cytogenetics.
- To know role of cytogenetic techniques in diagnosing genetic disorders, cancer genetics, prenatal screening, and personalized medicine.

### FINAL ASSESSMENT

Final exam will be conducted at the end of the session.

## **DURATION**

30 hours beginning from January 13<sup>th</sup> 2024

### **OUTCOME**

- This course provides an overview of various cytogenetic techniques.
- This course will provide individuals with the knowledge on advanced cytogenetic techniques like FISH, CGH, and NGS for clinical and research purposes and also in identifying various genetic disorders.

### **REGISTRATION PROCESS**

Students can directly contact their course coordinator





# The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

# Course on Advances in Cytogenetic Techniques

(Course Code: ACGT 2023-24)

### LIST OF STUDENTS

S.No.	Name of the Students	I. Signature
1.	Abinaya sangavi	Sbrvaya Sam
2.	Aishwarya K	Day -
3.	Ajay kumar N	Alan tun N
4.	Anu R	Aug -
5.	Baranidharan G	Resaudharang
6.	Hema S Reddy	Henry Reddy -
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9.	Jyothirmoy Ghosh	Jyoth?manyatost
10.	Krishnajith S	128/4
11.	Lakshmi . P	Lak sme. p
12.	Maivannan K	marian -
13.	Md. Saif khazi	wad 30.81
14.	Nayana Rai A	Dayara
15.	Raafi Jamal J	Rall
16.	Rupkumar Das	-Dast
17.	Sam Sherman S	8au
18.	Savitha TV	Saugtha T.V
19.	Shree Devika Rani	Shace ders Bai
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21.	Uddipan Rai	udde pour (8)
22.	Weizel Pearl Barretto	weitel DE gratto.

CO-ORDINATOR

Mrs Chaithra K

HOD

Dr. Padmaa M Paarakh

P. Pad mo PRINCIPAL

Dr. Padmaa M Paarakh







The Oxford College of Pharmacy sed by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

# Course on Advances in Cytogenetic Techniques (Course Code: ACGT 2023-24)

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# Course on Advances in Cytogenetic Techniques (Course Code: ACGT 2023-24)

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S.N	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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# The Oxford College of Pharmacy

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### Course on Advances in Cytogenetic Techniques

(Course Code: ACGT 2023-24)

#### Syllabus

MODULE	CHAPTER/TOPIC						
MODULE-1	Introduction to Cytogenetics						
	Basic Principles of Karyotyping						
	Advances in Karyotyping: Automated Karyotyping Systems						
	Chromosome Banding Techniques: G-banding, R-banding, Q-bandin						
	High-Resolution Chromosome Banding: Applications						
	Fluorescence In Situ Hybridization (FISH): Principle and Procedure						
	FISH application in genomics						
	Molecular Cytogenetics in Personalized Medicine						
MODULE -II	Next-Generation Sequencing (NGS) in Cytogenetics						
	NGS-Based Cytogenetic Profiling for Targeted Cancer Therapy						
	FISH Applications in Breast and Ovarian Cancer						
	NGS for Chromosome Mutations and Rearrangements						
	Cytogenetics in Predicting Chromosomal Abnormalities						
	Cytogenetics in Chromosome Instability in Neurodegenerative Disease						
	Cytogenetic Biomarkers in Targeted Cancer Therapy						
	Cytogenetics techniques in cancer and genetic diseases						

CO-ORDINATOR

Mrs Chaithra K

HOD

Dr. Padmaa M Paarakh

Dr. Padmaa M Paarakh





# The Oxford College of Pharmacy

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# Course on Advances in Cytogenetic Techniques (Course Code: ACGT 2023-24) Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	13.01.2024	Saturday	1:30 - 2:30PM	Inaugural	Mrs. Chaithra K
2	13.01.2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K
3	20.01.2024	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K
4	20.01.2024	Saturday	2:30 -3.30PM	Module 1	Mrs Charthra K
5	22.01.2024	Monday	4:00- 5:00PM	Module 1	Mrs Chaithra K
6	27.01.2024	Saturday	1:30 - 2:30PM	Module I	Mrs. Chaithra K
7	27.01.2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K
8	29-01-2024	Monday	4:00- 5:00PM	Module 1	Mrs Chaithra K
9	03-02-2024	Saturday	1:30 - 2:30PM	Module 1	Mrs Chaithra K
10	03-02-2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K
11	05-02-2024	Monday	4:00- 5:00PM	Module 1	Mrs Chaithra K
12	10-02-2024	Saturday	1:30 - 2:30PM	Module 1	Mrs Chaithra K
13	10-02-2024	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K
14	12-02-2024	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K
1.5	17-02-2024	Saturday	1:30 - 2:30PM	Module	Mrs. Chaithra K
16	17-02-2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
17	19-02-2024	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K
18	24-02-2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
19	24-02-2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
20	02-03-2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
21	02-03-2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
22	04-03-2024	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K
23	09-03-2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
24	09-03-2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
25	11-03-2024	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K
26	16-03-2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
27	16-03-2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
28	01-04-2024	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K
29	06-04-2024	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
30	06-04-2024	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
31	08-04-2024	Monday	4:00- 5:00PM	Valedictory function	Mrs. Chaithra K

COURSE CO-ORDINATOR

HOD

PRINCIPAL MO

Mrs Chaithra K

Dr. Padmaa M Paarakh

Dr. Padmaa M Paarakh

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru – 560 068 1: +91-80 - 61754694; Fax. +91-80 -61754699, www.theoxford.edu.e-mail: pharmacyprincipal@theoxford.edu.info@theoxford.edu



# The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;
Approved by Pharmacy Council of India, New Delhi)

### Course on Advances in Cytogenetic Techniques

(Course Code: ACGT 2023-24)

#### Completion Report

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore, conducted Course on Advances in Cytogenetic Techniques (Course Code: ACGT 2023-24) for the academic year 2023-24. This course offers the knowledge on Cytogenetic Techniques. It also helps in better understanding of various techniques in diagnosis of genetic variation in analyzing the diseases.

The course was started with a formal inaugural function by welcoming the Principal Dr. Padmaa M Paarakh. The Function was conducted at Room No -501 and all the participants were introduced by Course Coordinator Mrs Chaithra K. Total 22 students were present. Our principal had emphasized on the importance of doing such courses in academics as well as in future also. The inaugural function has been summed up with the introductory lecture of course coordinator.

A total thirty-hour course had been conducted after college hours on Saturday and Monday. Total 22 students have enrolled for this course.

The syllabus of the course had been divided into two modules. After the completion of each module test was conducted, and overall test was conducted after the completion of the course.

The results of the tests conducted for the two modules and overall were analysed. Approximately 56.00 % students scored grade A (Marks percentage 95-100%) in all the tests followed by 37.33% who scored grade B (Marks percentage 90-94%) and 6.6% scored grade C (Marks percentage 85-89%). The performance of the students in the tests were found excellent. About ninety percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 08.04.2024 and the participation certificate were distributed to all 22 students by Principal Dr. Padmaa M Paarakh. The coordinator had thanked Principal and management for providing best infrastructure for carrying out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, had appreciated the enthusiasm of the students in this course and Congratulate the Department of Pharmacognosy and the course coordinator, Mrs Chaithra K for successful completion of course.

CO-ORDINATOR

нор

PRINCIPAL

Mrs Chaithra K

Dr. Padmaa M Paarakh

Dr. Padmaa M Paarakh

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068

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e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



# The Oxford College of Pharmacy

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# Course on Advances in Cytogenetic Techniques

(Course Code: ACGT2023-24)

#### **OUTCOME REPORT**

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore-560 068, completed Course on Advances in Cytogenetic Techniques (Course Code: ACGT2023-24). About 22 students were registered and the course was conducted for 30 hours. This course offers the knowledge on various cytogenetic techniques. It also helps to know the role of cytogenetic techniques in diagnosing genetic disorders, cancer genetics, prenatal screening, and personalized medicine.

OUTCOMES: At the end of this course students were able to

- This course provides an overview of various cytogenetic techniques.
- This course will provide individuals with the knowledge on advanced cytogenetic techniques like
   FISH, CGH, and NGS for clinical and research purposes and also in identifying various genetic disorders.

The students were satisfied and were keen to attend such programs in future.

CO-ORDINATOR

Mrs. Chaithra K

HOD

Dr. Padmaa M Paarakh

PRINCIPAL.

Dr. Padmaa M Paarakh





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr./Mś. And of I'm Yr Pham. D has successfully completed course on Advances in Cytogenetic Techniques by Department of Pharmacognosy, held at The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr./Ms. J. JeevPtha of Pham: D. I. Year has successfully completed course on Advances in Cytogenetic Techniques by Department of Pharmacognosy, held at The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr./Ms. Laksbook of Down D has successfully completed course on Advances in Cytogenetic Techniques by Department of Pharmacognosy, held at The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

P. Padwo Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr./Ms. Saustha To of It Yr Phom.D has successfully completed course on Advances in Cytogenetic Techniques by Department of Pharmacognosy, held at The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. Oday Saha of Mr. Phono D has successfully completed course on Advances in Cytogenetic Techniques by Department of Pharmacognosy, held at The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

P. Padwo

Dr. PADMAA M PAARAKH

Mrs Chaithra K

PRINCIPAL & HOD, Dept. of Pharmacognosy



# The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;
Approved by Pharmacy Council of India, New Delhi)

# COURSE ON CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED

### PLANT SPECIES)

(Course Code: CERSEPS2023-24)

#### Notice

Date: 01.01.2024

To

Notice Board

To be read in the class rooms

Course Coordinator- Mrs. Pavithra Devi. R,

To be filed

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on **CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED PLANT SPECIES)** for the academic year 2023-24, for the benefit of B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 8<sup>st</sup> January 2024 and will be conducted every Monday and Saturday after the regular classes. The eligibility criteria include students pursuing Pharmacy degree that is B. Pharm. Interested students can enroll with Mrs. Pavithra Devi. R, Course coordinator on or before 4<sup>th</sup> January 2024.

COORDINATOR Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL Dr Padmaa M. Paarakh

Oxford COLLEGE OF PHARMACY

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;

# **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
Course Co- ordinator	Mrs. Pavithra Devi. R Dept. of Pharmacognosy TOCP, Bengaluru.

### For Further Information Contact

Mrs. Pavithra Devi. R
Assistant Professor,
Department of Pharmacognosy,
TOCP, Bengaluru.
Email:
devipharma02@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D. Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi of Health Sciences, University Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

# **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., B. Pharm.

# CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED PLANT SPECIES)



### Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacognosy, 1st Main Road., Hongasandra, Bengaluru, Karnataka -560 068

### Important Dates

Duration: 30 hours

Last date for registration: 4th Jan 2024

Date of commencement: 8th Jan 2024

Final Examination: May 2024

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact person for registration	Mrs.Pavithra Devi.R Course Co-ordinator 8618064372

### **STRUCTURE**

- Course will be conducted for total 30
   hours after the college hours.
- Every Monday and Saturday after the college hours.

# **COURSE DESCRIPTION**

The Department of Pharmacognosy, TOCP, Bengaluru introduces a thirty hours course on Conservation of ebony and red sandal wood (endangered plant species) (Course code: CERSEPS 2023-24). This course offers the basic knowledge about Conservation of ebony and red sandal wood endangered plant species.

# OBJECTIVES OF THE PROGRAM

- To gain knowledge about the protection of endangered species.
- To gain knowledge about the reforestation initiatives, community engagement and livelihood improvements.
- The present course is aimed towards a better understanding of the basic concepts of research monitoring, education and awareness campagnas, collaboration with stake holders

### **DURATION**

30 hours beginning from 08th Jan 2024

### **OUTCOME**

- This course provides an overview
   of Successful reforestation projects
   that increase the populations of
   ebony and red sandalwood,
   contributing to biodiversity and
   ecosystem stability.
- To understand the Greater awareness and involvement of communities in conservation efforts.
- To understand the Adoption of sustainable harvesting practices by local communities, leading to a balanced use of resources and improved ecological health.

## **REGISTRATION PROCESS**

Students can directly contact respective course co-ordinator.

### **FINAL ASSESSMENT**

Final exam will be conducted at the end of the syllabus.



# The Oxford College of Pharmacy

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### COURSE ON CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED

### PLANT SPECIES)

(Course Code: CERSEPS2023-24)

### List of students

S. No.	Name of the Students	Signature
1.	ARYA KRISHNA	Anya
2.	BANU PRIYA D	BR
3.	BHUVANESHWARI C	Bhuvoneshworie C
4.	C POVINDHAR	Pour odher.
5.	CHAITHRA K	Ponindhers.
6.	CHANDANA N	CHANDANA
7.	DEEPTHI R	eapter
8.	DHRUVA R NADIG	
9.	GAGANA.K	gagaro
10.	GIRESHA NAIDU M	ØN.A

CO-ORDINATOR Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL
Dr Padmaa M. Paarakh





# The Oxford College of Pharmacy

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### COURSE ON CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED

#### PLANT SPECIES)

(Course Code: CERSEPS2023-24)

#### **Syllabus**

Module	Chapter/Topic
Module 1	Introduction to Ebony and Red Sandalwood
	Historical uses and significance, Impact of demand on populations
	Threats to Conservation
	Overexploitation, Illegal logging and trade, Market demand and its impact
	Habitat Loss, Deforestation and land-use changes
	Climate change effects
	Legal and Policy Frameworks
	Enforcement Challenges
	Sustainable Harvesting Techniques
Module 2	Alternatives to Ebony and Red Sandalwood
	Community Involvement,
	Engaging Local Communities
	Restoration and Reforestation
	Research and Monitoring
	Eco-tourism and other economic opportunities
	Awareness and Education
	Campaigns and Advocacy, Building a Conservation Ethic

Coordinator Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL Dr Padmaa M. Paarakh



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# COURSE ON CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED

#### PLANT SPECIES)

(Course Code: CERSEPS2023-24)

#### Attendance Statement

S. No	Name of the student	16	17	18	19	20	21	22	2.3	24	25	26	27	28	29	30
	Date of the Class	1.19	1010	1619	10%	23/2	19	200	10	610	9/4	2/0	140	20/4	Ma	2919
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3	BHUVANESHWARI C	Pt-	Ber	W		B	Br	Br	Br	A	Br	Bh	Br	4	Br	Br
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5	CHAITHRA K	CX	Ct	c.x	C.1			C.X	CV	1.4	_		A	C. L	CIL	CA
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10	GIRESHA NAIDU M	q. N	q. N	9. N	9.10	9. N	q.N	9.2	9·N	9.N	A	9.1	9.N	4. N	9. N	9. N
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### COURSE ON CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED

#### PLANT SPECIES)

(Course Code: CERSEPS2023-24)

#### Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	8/1	13/1	100	22/1	2711	2911	3/2	4/2	10/2	12/2	14/2	26/2	No.	413	2/3
1	ARYA KRISHNA	8	\$	A	R	8	8	8	8	D	8	R	*	4	A	P
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9	GAGANA.K	Jugar	guga	gagas	gragon	apple 1	gagava	gogars	agara	gegore	gogo	anguage	gogoro	appene	A	gagar
10	GIRESHA NAIDU M	G.N	1	g .N	G.N	9.N	A	9.N	9. N	9.N	9.N	9.N	9.N	9. N	9 ·N	9.10
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# COURSE ON CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED

#### PLANT SPECIES)

(Course Code: CERSEPS2023-24)

#### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	08-01-2024 Monday		4:30-5:30 PM	INAUGURATION and Module-I	Dr. Padmaa. M. Paarakh Mrs. Pavithra Devi. R
2	13-01-2024	Saturday	1:30-2:30 PM	Module I	Mrs. Pavithra Devi. R
3.	20-01-2024	Saturday	1:30-2:30 PM	Module I	Mrs. Pavithra Devi. R
4.	22-01-2024	Monday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R
5.	27-01-2024	Saturday	1:30-2:30 PM	Module I	Mrs. Pavithra Devi. R
6.	29-01-2024	Monday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R
7.	03-02-2024	Saturday	1:30-2:30 PM	Module I	Mrs. Pavithra Devi. R
8.	05-02-2024	Monday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R
9.	10-02-2024	Saturday	1:30-2:30 PM	Module I	Mrs. Pavithra Devi. R
10.	12-02-2024	Monday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R
11.	17-02-2024	Saturday	1:30-2:30 PM	Module I	Mrs. Pavithra Devi. R
12.	26-02-2024	Monday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R
13.	02-03-2024	Saturday	1:30-2:30 PM	Module I	Mrs. Pavithra Devi. R
-14.	04-03-2024	Monday	4:30-5:30 PM	Module I	Mrs. Pavithra Devi. R
15.	09-03-2024	Saturday	1:30-2:30 PM	Module I	Mrs. Pavithra Devi. R
16.	11-03-2024	Monday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
17.	16-03-2024	Saturday	1:30-2:30 PM	Module II	Mrs. Pavithra Devi. R
18.	18-03-2024	Monday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
19.	23-03-2024	Saturday	1:30-2:30 PM	Module II	Mrs. Pavithra Devi. R
20.	25-03-2024	Monday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
21.	30-03-2024	Saturday	1:30-2:30 PM	Module II	Mrs. Pavithra Devi. R



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# The Oxford College of Pharmacy

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22.	01-04-2024	Monday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
23.	06-04-2024	Saturday	1:30-2:30 PM	Module II	Mrs. Pavithra Devi: R
24.	08-04-2024	Monday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
25.	13-04-2024	Saturday	1:30-2:30 PM	Module II	Mrs. Pavithra Devi. R
26.	15-04-2024	Monday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
27.	20-04-2024	Saturday	1:30-2:30 PM	Module II	Mrs. Pavithra Devi. R
28.	22-04-2024	Monday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
29.	27-04-2024	Saturday	1:30-2:30 PM	Module II	Mrs. Pavithra Devi. R
30	29-04-2024	Monday	4:30-5:30 PM	Module II	Mrs. Pavithra Devi. R
31	04-05-2024	Saturday	1:30-2:30 PM	VALEDICTORY	Dr. Padmaa. M. Paarakh Mrs. Pavithra Devi. R

CO-ORDEVATORS

HÖD

P. Pad WO PRINCIPAL

Mrs..Pavithra Devi. R

Dr. Padmaa M. Paarakh

Dr. Padmaa M. Paarakh





# The Oxford College of Pharmacy

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## COURSE ON CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED

#### PLANT SPECIES)

(Course Code: CERSEPS2023-24)

#### Completion Report

The Department of Pharmacognosy, The Oxford college of Pharmacy, Bangalore, conducted a Course on Conservation of Ebony and Red Sandal Wood (Endangered Plant Species) (Course Code: CERSEPS2023-24) for the academic year 2023-24. The course was intended to impart knowledge to the students about the basics of Conservation of Ebony and Red Sandal Wood Endangered Plant Species and knowledge about the protection of endangered species and reforestation initiatives, community engagement and livelihood improvements

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh. The function was conducted at Room No 507 and all the participants were introduced by Course Coordinators Mrs Pavithra Devi. R. Total 10 students were present. Our principal had emphasized on the importance of doing such courses for betterment of their future. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs. Pavithra Devi. R

A total thirty hours course had been conducted after the college hours of every Monday and Saturday.

The syllabus of the course had been divided into two modules. After the completion of each modules an internal assessment was conducted and overall test was conducted after the completion of the course.

The results of module I, II, and overall were analysed. Approximately 40 % students scored grade A (marks percentage-100%) in all the tests followed by 30% who scored grade B (marks percentage-90%) and 20% scored grade C (marks percentage-80%) and 10% scored grade D (marks percentage-70 and below %).

The performance of the students in the tests were found excellent. About ninety percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 04/05/2024 and the course participation certificates were distributed to all 10 students by the Principal & Head of the Department Dr. Padmaa M Paarakh, and we had thanked management for providing best infrastructure for carrying out such courses. Behalf of department she promised to carry out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, had appreciated the enthusiasm of the students in this course and Congratulate the Department of Pharmacognosy and the course co-ordinator Mrs Pavithra Devi. R for successful completion of the course.

CO-ORDINATOR Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL Dr Padmaa M. Paarakh

Oxford COLLEGE OF PHARMACY

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## COURSE ON CONSERVATION OF EBONY AND RED SANDAL WOOD (ENDANGERED PLANT SPECIES)

(Course Code: CERSEPS2023-24)

#### OUTCOME REPORT

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore- 560068, completed a course on Conservation of Ebony and Red Sandal Wood (Endangered Plant Species) 2023-24 (course code: CERSEPS2023-24). 10 students were registered and the course was conducted for 30 hours. The course outcome is to understand Conservation of Ebony and Red Sandal Wood (Endangered Plant Species).

Outcomes: At the end of this course students were able to

- This course provides an overview of Successful reforestation projects that increase the populations of ebony and red sandalwood, contributing to biodiversity and ecosystem stability.
- To understand the Greater awareness and involvement of communities in conservation efforts
- To understand the Adoption of sustainable harvesting practices by local communities, leading to a balanced use of resources and improved ecological health.

The students were satisfied and were keen to attend such programs in future.

Mrs. Pavithra Devi. R.

Dr. Padmaa M. Paarakh

Dr. Padmaa M. Paarakh

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru -560 068 D: +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This	is	to	certify	that	Mr./Ms.	_ <u>C</u> .	Pour	dha	<b>1</b> 7			of
VII 6	BEMI, B	·Phas	year ha	s underg	gone a c	course on	Cons	ervi	ation	of	Ebony	and
Red	Sand	al w	ood (End	dangered	! Plant	Species)	held	at	the	Dep	partmen	t of
Phari	тасод	gnosy	, The O	xford Co	llege of	Pharmac	y, Ber	ıgal	uru,	Kar	nataka	for
the ac	cadem	іс уе	ear 2023-2	2024.								

COURSE COORDINATOR

HOD

PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **PARTICIPATION CERTIFICATE**

This	is	to	certify	that	Mr./Ms	(	Chaith	~ ·	K			of
			amyear ha									and
			ood (End									
Phar	maco	gnosy	, The O	xford Co	ollege of	Pharm	асу, Ве	nga	luru,	Kar	rnataka	for
the ac	caden	піс уе	ear 2023-2	2024.								

COURSE COORDINATOR



P. Pad mo PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **PARTICIPATION CERTIFICATE**

This	is	to	certify	that 1	Mr./Ms.		cept	P3.18			of
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Red	Sand	al w	ood (End	dangered	Plant	Species)	held	at the	e Dep	oartmen	t of
Phar	тасог	gnosį	y, The O	xford Co	llege of	Pharmac	y, Ben	igalur	u, Ka	rnataka	for
the a	caden	піс ув	ear 2023-2	2024.							

COURSE COORDINATOR



P. Pad we PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **PARTICIPATION CERTIFICATE**

This	is	to	certify	that	Mr./Ms	s	jaga	na.	14		of
1/1	"B.Pl	na-m	year ha	is under	gone a	course on	Cons	erva	tion o	of Ebony	, and
Red	Sanda	ıl we	ood (En	dangered	d Plant	Species)	held	at i	the D	Departme.	nt of
Phar	macog	nosy	, The O	xford Co	ollege of	Pharmac	y, Ber	ıgalı	ıru, k	Karnataka	i for
the a	cadem	ic yea	ur 2023-2	2024.							

COURSE COORDINATOR

HOD

PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH Dept of Pharmacognosy The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Bong Poigs. D of Wil Sen Biphon year has undergone a course on Conservation of Ebony and Red Sandal wood (Endangered Plant Species) held at the Department of Pharmacognosy, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR



P. Paglus PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH Dept of Pharmacognosy The Oxford College of Pharmacy



# The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

### COURSE ON MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI

(Course Code: MPPAO2023-24)

Notice

Date: 15.07.2024

To

#### Notice Board

To be read in the class rooms

Course Coordinator- Mrs. Pavithra Devi. R,

To be filed

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI for the academic year 2023-24, for the benefit of B. Pharm. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 20<sup>th</sup> July 2024 and will be conducted every Monday and Saturday after the regular classes. The eligibility criteria include students pursuing Pharmacy degree, that is B. Pharm. Interested students can enroll with Mrs. Pavithra Devi. R, Course coordinator on or before 18<sup>th</sup> July 2024.

COORDINATOR Mrs. Pavithra Devi. R HOD Dr Padmaa M. Paarakh

PRINCIPAL Dr Padmaa M. Paarakh



# **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
Course Co- ordinator	Mrs. Pavithra Devi. R Dept. of Pharmacognosy TOCP, Bengaluru.

### For Further Information Contact

Mrs. Pavithra Devi. R Assistant Professor. Department of Pharmacognosy, TOCP, Bengaluru. Email: devipharma02@gmail.com

# THE OXFORD COLLEGE OF **PHARMACY**

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D. Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences. Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

# **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree Date of commencement: 20th July 2024 i.e., B. Pharm. Students

### Course

On

# "MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI"



Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacognosy, 1st Main Road., Hongasandra, Bengaluru, Karnataka -560 068

### Important Dates

Duration: 30 hours

Last date for registration: 18th July 2024

Final Examination: October 2024

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact	Mrs.Pavithra Devi.R
person for	Course Co-ordinator
registration	8618064372

### **STRUCTURE**

- Course will be conducted for total 30 hours after the college hours.
- Every Monday and Saturday after the college hours.

### **COURSE DESCRIPTION**

The Department of Pharmacognosy, TOCP, Bengaluru introduces a thirty hours course on MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI (Course code: MPPAO 2023-24). This course offers the basic knowledge about Mycology and Plant Pathology of Tulsi and Ashwagandha

# OBJECTIVES OF THE PROGRAM

- To gain knowledge about the Explore the fundamental concepts of mycology, including fungal morphology, physiology, and life cycles.
- Examine the principles of plant pathology, including disease development, host-pathogen interactions, and disease management.
- To gain knowledge about the Identify and analyze the fungal pathogens affecting Ashwagandha and Tulsi.
- Discuss integrated pest management and sustainable practices for disease control in these plants.

### **DURATION**

30 hours beginning from 20<sup>th</sup> July 2024

### **OUTCOME**

- This course provides an overvied Understand the interactions between these plants and their fungal pathogens.
- To understand the Develop and apply effective management practices for controlling fungal diseases.
- To understand the advocate for sustainable agricultural practices that minimize fungal diseases while enhancing crop yield.

### **REGISTRATION PROCESS**

Students can directly contact respective course co-ordinator.

### **FINAL ASSESSMENT**

Final exam will be conducted at the end of the syllabus.



# The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

# COURSE ON MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI

(Course Code: MPPAO2023-24)

#### List of students

S. No.	Name of the Students	Signature
1.	GOWTHAM GOWDA M R	Signature  Comba por.  Harifisher  Harifisher  Houtwhen.
2.	HARI KISHOR	- Jensey ihou
3.	HARITHA R	paswther.
4.	HRUTHIKA B	Howkuhaus
5.	IYSWARYA. G. M	Fr
6.	KARTHIK	- this
7.	KAVYA P REDDY	CHA
8.	KIRAN G M	- War
9.	KRUTHIC REVANTH	- man
10.	KRUTHIKA S. G	Konthika

CO-ORDINATOR Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL Dr Padmaa M. Paarakh

Oxford COLLEGE OF PHARMACY

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



# The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI

(Course Code: MPPAO2023-24)

#### **Attendance Statement**

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	2017	2017	2/1	27/7	217	24	3/8	20	5/8	,018	10/8	12/80	17/8	17/8	24/8
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No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80 -61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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Approved by Pharmacy Council of India, New Delhi)

### COURSE ON MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND OCIMUM

#### SANCTUM

(Course Code: MPPAO2023-24)

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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# The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;
Approved by Pharmacy Council of India, New Delhi)

# COURSE ON MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI (Course Code: MPPAO2023-24)

#### Syllabus

Module	Chapter/Topic
Module 1	Introduction to Mycology and Plant Pathology
	Morphology and Biology of Fungi
	Life cycles of fungi: sexual and asexual reproduction.
	Ashwagandha: Botanical Characteristics
	Taxonomy and distribution of Ashwagandha.
	Growth conditions and cultivation practices.
	Medicinal uses and bioactive compounds.
	Pathogens Affecting Ashwagandha
	Symptoms and signs of fungal infections.
	Environmental factors influencing disease prevalence.
Module 2	Tulsi: Botanical Characteristics
	Pathogens Affecting Tulsi
	Symptoms and signs of fungal infections.
	Impact of diseases on plant quality and yield.
	Diagnosis of Plant Diseases
	Techniques for diagnosing fungal diseases.
	Use of molecular methods in plant pathology.
	Integrated Disease Management (IDM)
	Principles of IDM: prevention and control strategies.
	Cultural, biological, and chemical control methods.
	Role of organic practices in disease management.

Coordinator Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL Dr Padmaa M. Paarakh





#### The Oxford College of Pharmacy

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# COURSE ON MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI (Course Code: MPPAO2023-24)

#### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	20.07.2024	Saturday	1:30 – 2:30PM	INAUGURATION and Module-I	Dr. Padmaa. M. Paarakh Mrs. Pavithra Devi. R
2	20.07.2024	Saturday	2:30 -3:30PM	Module I	Mrs. Pavithra Devi. R
3.	22.07.2024	Monday	4:00- 5:00PM	Module I	Mrs. Pavithra Devi. R
4.	27.07.2024	Saturday	1:30 – 2:30PM	Module I	Mrs. Pavithra Devi. R
5.	27.07.2024	Saturday	2:30 -3:30PM	Module I	Mrs. Pavithra Devi. R
6.	29.07.2024	Monday	4:00- 5:00PM	Module I	Mrs. Pavithra Devi. R
7.	03.08.2024	Saturday	1:30 - 2:30PM	Module I	Mrs. Pavithra Devi. R
8.	03.08.2024	Saturday	2:30 -3:30PM	Module I	Mrs. Pavithra Devi. R
9.	05.08.2024	Monday	4:00- 5:00PM	Module I	Mrs. Pavithra Devi. R
10.	10.08.2024	Saturday	1:30 - 2:30PM	Module I	Mrs. Pavithra Devi. R
11.	10.08.2024	Saturday	2:30 -3:30PM	Module I	Mrs. Pavithra Devi. R
12.	12.08.2024	Monday	4:00- 5:00PM	Module I	Mrs. Pavithra Devi. R
13.	17.08.2024	Saturday	1:30 - 2:30PM	Module I	Mrs. Pavithra Devi. R
14.	17.08.2024	Saturday	2:30 -3:30PM	Module I	Mrs. Pavithra Devi. R
15.	24.08.2024	Saturday	1:30 - 2:30PM	Module I	Mrs. Pavithra Devi. R
16.	24.08.2024	Saturday	2:30 -3:30PM	Module I	Mrs. Pavithra Devi. R
17.	26.08.2024	Monday	4:00- 5:00PM	Module I	Mrs. Pavithra Devi. R
18.	31.08.2024	Saturday	1:30 - 2:30PM	Module II	Mrs. Pavithra Devi. R
19.	31.08.2024	Saturday	2:30 -3:30PM	Module II	Mrs. Pavithra Devi. R
20.	02.09.2024	Monday	4:00- 5:00PM	Module II	Mrs. Pavithra Devi. R
21.	09.09.2024	Monday	4:00- 5:00PM	Module II	Mrs. Pavithra Devi. R





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22.	14.09.2024	Saturday	1:30 – 2:30PM	Module II	Mr. Annada Shankar Mohanty
23.	14.09.2024	Saturday	2:30 -3:30PM	Module II	Mrs. Pavithra Devi. R
24.	21.09.2024	Saturday	1:30 - 2:30PM	Module II	Mrs. Pavithra Devi. R
25.	21.09.2024	Saturday	2:30 -3:30PM	Module II	Mrs. Pavithra Devi. R
26.	23.09.2024	Monday	4:00- 5:00PM	Module II	Mrs. Pavithra Devi. R
27.	28.09.2024	Saturday	1:30 - 2:30PM	Module II	Mrs. Pavithra Devi. R
28.	28.09.2024	Saturday	2:30 -3:30PM	Module II	Mrs. Pavithra Devi. R
29.	30.09.2024	Monday	4:00- 5:00PM	Module II	Mrs. Pavithra Devi. R
30	05.10.2024	Saturday	1:30 - 2:30PM	Module II	Mrs. Pavithra Devi. R
31	05.10.2024	Saturday	2:30 -3:30PM	VALEDICTORY	Dr. Padmaa. M. Paarakh Mrs. Pavithra Devi. R

CO-ORDINATORS

Mrs. Pavithra Devi. R

ног

PRINCIPAL

Dr. Padmaa M. Paarakh

Dr. Padmaa M. Paarakh

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;

# विद्या सर्वत्र शोभते (Eald, 1974

#### Children's Education Society (Regd.)

#### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI

(Course Code: MPPAO2023-24)

#### Completion Report

The Department of Pharmacognosy, The Oxford college of Pharmacy, Bangalore, conducted a Course on Mycology and Plant Pathology of Ashwagandha and Tulsi (Course Code: MPPAO2023-24) for the academic year 2023-24. The course was intended to impart knowledge to the students about the basics of the fundamental concepts of mycology, including fungal morphology, physiology, and life cycles. Examine the principles of plant pathology, including disease development, host-pathogen interactions, and disease management.

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh. The function was conducted at Room NO-501 and all the participants were introduced by Course Coordinators Mrs Pavithra Devi. R. Total 10 students were present. Our principal had emphasized on the importance of doing such courses for betterment of their future. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs. Pavithra Devi. R

A total thirty hours course had been conducted after the college hours of every Monday and Saturday.

The syllabus of the course had been divided into two modules. After the completion of each modules an internal assessment was conducted and overall test was conducted after the completion of the course.

The results of module I, II, and overall were analysed. Approximately 40 % students scored grade A (marks percentage-100%) in all the tests followed by 30% who scored grade B (marks percentage-90%) and 20% scored grade C (marks percentage-80%) and 10% scored grade D (marks percentage-70 and below %).

The performance of the students in the tests were found excellent. About ninty percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 05/10/2024 and the course participation certificates were distributed to all 10 students by the Principal & Head of the Department Dr. Padmaa M Paarakh, and we had thanked management for providing best infrastructure for carrying out such courses. Behalf of department she promised to carry out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, had appreciated the enthusiasm of the students in this course and Congratulate the Department of Pharmacognosy and the course co-ordinator Mrs Pavithra Devi. R for successful completion of the course.

CO-ORDINATOR Mrs. Pavithra Devi. R

HOD Dr Padmaa M. Paarakh PRINCIPAL Dr Padmaa M. Paarakh

Oxford COLLIGE OF PHARMACY No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru –560 068 ②: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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#### COURSE ON MYCOLOGY AND PLANT PATHOLOGY OF ASHWAGANDHA AND TULSI (Course Code: MPPAO2023-24)

#### OUTCOME REPORT

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore- 560068, completed a course on Mycology and Plant Pathology of Ashwagandha and Tulsi 2023-24 (course code: MPPAO2023-24). 10 students were registered and the course was conducted for 30 hours. The course outcome is to understand Mycology and Plant Pathology of Ashwagandha and Tulsi

Outcomes: At the end of this course students were able to

- This course provides an overview to understand the interactions between these plants and their fungal pathogens.
- To understand the Develop and apply effective management practices for controlling fungal diseases.
- To understand the advocate for sustainable agricultural practices that minimize fungal diseases while enhancing crop yield.

The students were satisfied and were keen to attend such programs in future.

CO-ORDINATORS Mrs. Pavithra Devi. R

Dr. Padmaa M. Paarakh

PRINCIPAL Dr. Padmaa M. Paarakh







# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This	is	to	certify	that	Mr./Ms.	Hori K	Lishor		of
						rse on Myco			
of Asi	hwag	gandl	ia and T	ulsi he	eld at the	Department	of Pharn	iacognosy,	The
Oxfor	d Co	ollege	of Phar	тасу,	Bengaluru	, Karnataka	for the	academic	year
2023-									

COURSE COORDINATOR

HOD

P. Pagua PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH Dept of Pharmacognosy The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

#### PARTICIPATION CERTIFICATE

This	is	to	certify	that	Mr./Ms.	Kart	HIK		of
MII SEN	Bi	phan	<sub>Ω</sub> year has	s under	gone a cou	ırse on Myco	logy and p	plant patho	ology
of Asi	hwag	gandl	na and T	Tulsi he	eld at the	Department	of Pharn	nacognosy,	The
Oxfor	d C	ollege	of Phar	тасу,	Bengaluri	ı, Karnataka	for the	academic	year
2023-2	2024	<b>!</b> .							

COURSE COORDINATOR

HOD

P Pad we PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy Dr. PADMAA M PAARAKH Dept of Pharmacognosy The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This	is	to	certify	that	Mr./Ms.	Kina	n G.M		of
1111 B	pha	arm.	year has	under	gone a cour	se on Mycol	logy and p	plant patho	ology
of Asl	nwag	andh	a and T	ulsi he	eld at the L	Department	of Pharn	iacognosy,	The
					Bengaluru,				
2023-2									

COURSE COORDINATOR

HOD

P. Padua PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH Dept of Pharmacognosy The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **PARTICIPATION CERTIFICATE**

This	is	to	certify	that	Mr./Ms.	Knuthika S.G. 0
VIII B	·pha	m	_ year has	under	gone a cou	urse on Mycology and plant pathology
of Asi	hwag	gandl	ıa and T	ulsi he	eld at the	Department of Pharmacognosy, The
Oxfor	d Co	ollege	of Phar	тасу,	Bengaluru	u, Karnataka for the academic year
2023-2	2024					

COURSE COORDINATOR

HOD

P. Padma PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **PARTICIPATION CERTIFICATE**

This	is	to	certify	that	Mr./Ms.	Harit	ha, R		of
1111	B.pt	aren	year has	under	gone a cour	rse on Myco	logy and p	plant patho	ology
						Department			
Oxfor	d Co	llege	of Phar	тасу,	Bengaluru	. Karnataka	for the	academic	year
2023-	2024								

COURSE COORDINATOR

HOD

P. Pad wa PRINCIPAL

Mrs. Pavithra Devi. R Dept of Pharmacognosy The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH
Dept of Pharmacognosy
The Oxford College of
Pharmacy



#### The Oxford College of Pharmacy

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# COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE (COURSE CODE: AERPP 2023-24)

#### NOTICE

Date:13-07-2024

To

Notice Board

To be read in the class rooms

Course Co-ordinator-Dr Jeena Susan Saji

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on Adverse event reporting with emphasis on PV Practice for the academic year 2023-24 for the benefit of B.Pharm 2<sup>nd</sup> year students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 19/07/2024 and will be conducted after college hours on Monday, Friday and Saturday. The eligibility criteria include students Pursuing Pharmacy Degree B.Pharm 2<sup>nd</sup> year. Interested students can enroll with Dr Jeena Susan Saji, course coordinator on or before 18<sup>th</sup> July 2024.

COURSE CO-TRDINATOR

Dr Jeena Susan Saji

HOD

Dr Parthasarathy G

PRINCIPAL

#### **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr G Parthasarathy Department of Pharmacy Practice TOCP, Bangalore.
Program Coordinator	Dr Jeena Susan Saji Department of Pharmacy Practice TOCP, Bangalore.

#### **For Further Information Contact**

#### For Further Information Contact

#### Dr Jeena Susan Saji

Assistant Professor

Department of Pharmacy Practice

TOCP, Bangalore

Email:

jeenasusansaji1998@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi of Health University Sciences. Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

#### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree B.Pharm 2<sup>nd</sup> year.

# Course On "ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE"



Organized by

#### THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacy Practice.

1st Main Rd, Hongasandra, Bengaluru.

Karnataka 560068

**Duration: 30 hours** 

Last date for registration: 18.07 2024 Date of commencement: 19.07 2024

Planned Examination : After completion

of 30 hour classes.

#### REGISTRATION

Registration	NIL
Fees	It is a free course offered by
	The Oxford College of
	Pharmacy Bangalore-68
Contact	Dr Jeena Susan Saji
person for	9074795810
registration	

#### **STRUCTURE**

- Course will be conducted for 30 hours.
- Every Monday, Friday and Saturday after the college hours.

#### **COURSE DESCRIPTION**

The Department of Pharmacy Practice, TOCP, Bangalore introduces a thirty hours course on Adverse Event Reporting with Emphasis on PV Practice. (CourseCode: AERPP 2023-24). This course offers the necessary knowledge in various techniques used for ADR reporting and management

#### **OBJECTIVES OF PROGRAM**

- improve the patient care and safety the skills improve the public health.
- To promote understanding. health professionals and public.
- · Focusing of rational and safe use of medications.
- Learn ways to detect the unknown adverse reactions and interactions.
- · Develop skills for the assessment of benefit, harm, effectiveness and risk of medicines.

#### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus.

#### DURATION

Thirty hours.

#### **OUTCOME**

- · To develop the skills needed to •Students will Understand and acquir for reporting and in use of medications and to management of ADR in the field of pharmacy.
  - education and clinical training in •Students will acquire knowledge ADR reporting and management for finding out severe ADR which and its effective communication to cannot be found out through clinical trials.
    - This helps course to earm opportunity to get a job in detection and reporting of ADR in the field of pharmacovigilance in various organizations.

#### REGISTRATION PROCESS

Students can directly contact to the course coordinator Dr Jeena Susan Saji



# The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

# COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE (COURSE CODE: AERPP 2023-24) REGISTRATION LIST

SINo.	Student Name	Signature
1	Kishan krupakar	₩.
2	M B Tejaswini	(B)
3	Sadik ahmed	54
4	Tahir Azad zargar	3
5	Akhil Reddy A	AD
6	A D Nandini	CH.
7	Abdul azeez A	Abus
8	Abhishek B. K	Aldo
9	Abrar Majeed Malik	41
10	Aijaz Muhammad Bhat	MD.
11	Amar	A
12	Amulya.r	Amulya
13	N.Ananda :	Q -
14	Aniruddha Chakarborty	Arl
15	Apoorva N	Aporova.sl
16	S.Archana	(A)
7	Chethan Kumar BG	Oku
8	Chethan M	Ohn.
9	Chethan N	D -
0	Chidananda.G	G.
1	Chiranjeevi	Chire.
2	Debasish Parida	1



# The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Kannataka;

21	Deepak kumar mahto	armacy Council of India, New Dethi)
24	Dharshini J	Deipas
25	Divya C K	ear-
		Eldinge

COURSE CO-ORDINATOR Dr Jeena Susan Saji

HOD Dr Parthasarathy G

PRINCIPAL Dr Padmaa M Paarakh



#### The Oxford College of Pharmacy

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#### COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE (COURSE CODE: AERPP 2023-24)

#### SYLLABUS

MODULES	TOPICS				
	Introduction to ADR reporting and management				
	ADR reporting and Pharmacovigilance				
	Need for ADR reporting and management				
	Importance of safety monitoring of medicine				
	Introduction to ADR				
	ADR and ADE				
	Classification of ADR				
MODULE - I	Predisposing factors of ADR				
MODELL I	Causality assessment scale				
	Mechanism of ADR				
	Individual Case Safety Report ICSR				
	MedDRA,WHO				
	Different reporting for Pharmacovigilance				
	Spontaneous ADR reporting				
	Voluntary ADR reporting				
	ADR Regulatory terminologies				
	Importance of ADR reporting and management				
	Description of PSUR				
	Description about post marketing surveillance				
	Regulatory aspects of Pharmacovigilance				
	Core Pharmacovigilance Activities				
	DSUR and PBRER				
MODULE- II	Softwares used for ADR reporting				
	Event selection and coding with MEDRA				
	Future of Pharmacovigilance				
	Good clinical practice in pharmacovigilance				
	Tools used in ADR reporting and management				
	National ADR reporting and management program				
	Information resources in ADR reporting and management				
	Application of ADR reporting and management.				

COURSE COORDINATOR Dr Jeena Susan Saji

HOD Dr Parthasarathy P. Padus PRINCIPAL Dr Padmaa M Paarakh



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#### COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE

#### (COURSE CODE: AERPP 2023-24) SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	19/07/2024	FRIDAY	4.00-4.30PM 4.30-5.30PM	Inauguration  Module 1	Dr Padmaa M Paarakh Dr Jeena Susan Saji
2	20/07/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Jeena Susan Saji
3	22/07/2024	MONDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
4	26/07/2024	FRIDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
5	27/06/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Jeena Susan Saji
6	29/07/2024	MONDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
7	2/08/2024	FRIDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
8	3/08/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Jeena Susan Saji
9	5/08/2024	MONDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
10	9/08/2024	FRIDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
11	10/08/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Jeena Susan Saji
12	12/08/2024	MONDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
13	16/08/2024	FRIDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
14	17/08/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Jeena Susan Saji
15	26/08/2024	MONDAY	4.30-5.30PM	Module 1	Dr Jeena Susan Saji
16	30/08/2024	FRIDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
17	31/08/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Jeena Susan Saji
18	2/09/2024	MONDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
19	6/09/2024	FRIDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
20	9/09/2024	MONDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
21	13/09/2024	FRIDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
22	14/09/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Jeena Susan Saji



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23	20/09/2024	FRIDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
24	21/09/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Jeena Susan Saji
25	23/09/2024	MONDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
26	27/09/2024	FRIDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
27	28/09/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Jeena Susan Saji
28	30/09/2024	MONDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
29	04/10/2024	FRIDAY	4.30-5.30PM	Module 2	Dr Jeena Susan Saji
30	05/10/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Jeena Susan Saji
			2.30-3.00PM	Valedictory	Dr Padmaa M Paarakh

COURSE CO-ORDINATOR

Dr Jeena Susan Saji

HOD

Dr Parthasarathy G

PRINCIPAL



#### The Oxford College of Pharmacy

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# COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE (COURSE CODE: AERPP 2023-24) COMPLETION REPORT

The Department of Pharmacy Practice, The Oxford college of Pharmacy, Bangalore, conducted a course on Adverse event reporting with emphasis on PV practice (Course Code: AERPP2023-24) for the academic year 2023-24 This course offers the necessary knowledge and skills used for ADR reporting and management

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh The function was conducted at Room No-501 and all the participants were introduced by Course Coordinator Dr Jeena Susan Saji. Total 25 students were present. The inaugural function has been summed up with the introductory lecture of course coordinator Dr Jeena Susan Saji.

A total 30 hours course had been conducted after college hours on Monday, Friday and Saturday. Total 25 students were enrolled for this course.

The syllabus of the course had been divided into two modules. After the completion of each modules an internal assessment was conducted and overall test was conducted after the completion of the course. The final results of the tests conducted for module I,II and overall were analysed. Approximately 32.2 % students scored grade A (marks percentage-100%) in all the tests followed by 38.9 % who scored grade B (marks percentage-90%) and 28.9 % scored grade C (marks percentage-80%).

The performance of the students in the tests were found excellent. About eighty percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 5/10/2024 and the course participation certificate were distributed to all 25 students by the Principal Dr.Padmaa M.Paarakh and Head of the Department Dr Parthasarathy.Dr Parthasarathy thanked Principal madam and management for providing best infrastructure for carrying out such courses.On behalf of department she promised to carry out such courses in future also

The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students for this course and congratulated the Department of Pharmacy Practice and the course coordinator Dr Jeena Susan Saji for the successful completion of the course.

COURSE CO-ORDINATOR

Dr Jeena Susan Saji

HOD

Dr Parthasarathy G

PRINCIPAL





# The Oxford College of Pharmacy

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# COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE

(COURSE CODE: AERPP 2023-24)

#### OUTCOME REPORT

The Department of Pharmacy Practice, The Oxford College of Pharmacy, Bangalore-560068, completed COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE (Course Code: AERPP 2023-24).25 students were registered and the course was conducted for 30 hours.

This course offers the necessary skills and knowledge in various techniques used for reporting and management of ADR.

OUTCOMES: At the end of this course students were able to,

- Understand and acquire the skills for reporting and management of ADR in the field of pharmacy.
- Acquire knowledge for finding out severe ADR which cannot be found out through clinical trials.
- Earn an opportunity to get a job in detection and reporting of ADR in the field of pharmacovigilance in various organizations.

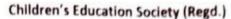
COURSE CO-ORDINATOR

Dr Jeena Susan Saji

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Dr Parthasarathy G







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# COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE (COURSE CODE: AERPP 2023-24)

#### Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	1914	ada	20/4	21/4	2414	29/7	2/8	3/2	578	واه	किश्व	10/8	16/2	17-7	24 8
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7	Abdul Azeez A	Mal	did	Hou	tolde	Phil	uda	ALM	MI	Shul	Alas	Soll	-Vira	MI		Obal
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14	Aniruddha chakarborty	Ac	Del	del	Del	Acto	Set	AN	AN	AB	Ad	Det	del	Ad	del	de
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18	Chethan M	Ch	chr	den	Chr	Um	- an	Cham	Chr	com	Ohn	Unn	Im	r Ch	Lihr	Ch.
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22	Debashish Parida	W	100	(A)	100	0	0	0	40	(A)	(ID)	(ia	100	0	40	(i)
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# COURSE ON ADVERSE EVENT REPORTING WITH EMPHASIS ON PV PRACTICE (COURSE CODE: AERPP 2023-24)

#### **Attendance Statement**

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Date of the Class	30/8	31/8	2/9/24	4 1 1	9/9	13/9	14/9	90 9	21/9/	259	24/9	28/9	30 9	410	5 100
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3	Sadiq Ahmed	(SA)	Say	(3A)	(D)	GA	GR	GAD	KAR	CAR	180	48	BX.	84	SA	50
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5	Akhil Reddy A	NO	1	AA	AR	SA	M	4P	地	彤	A	1	1	10	1	10
6	A D Nandhini	T	M	N	No	WH.	NH	NO	No	10	36	10	TH	91	10	-ND
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14	Aniruddha chakarborty	Auf	Acf	Agf	sef	ty	Ald	Af	Ad	Aed	Aef	Acf	Aef	Ag	Aef	ARS
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18	Chethan M	Ula	the	Chie	Chu	Chu	Ohn	AB	Chs	Ohn	ahre	Che	Cha	Chr	AB	Chr
19	Chethan N	3	Q	R	0	0	(D)	0	0	R	0	0	(N)	R	N	Q
20	Chidananda G	Q	a	0	(B)	6	Ou	(G)	(Ge	(G)	@	0	(G)	a	A.	(G)
21	Chiranjeevi	-	esset	للنا	CHEST	Mile	wisi	Jus -	WHY	wes -	upis	wi	chi	Web Company	ching	chier
22	Debashish Parida	MD	No	(1)	ND	De	100	ND	ND	B.	ND	960	N	Sp.	9	De.
23	Deepak Kumar Mahto	04	Def	Dep	AB		- 1	Deep	000	Deep		Dough		Denk	Delp	Deuk
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# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. S. Archana of II Bpharm year
has undergone a course on Adverse event reporting with emphasis on Pl
practice held at the Department of Pharmacy Practice, The Oxford College of
Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR
Dr. JEENA SUSAN SAJI
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

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Dr. PARTHASARATHY G Dept of Pharmacy practice The Oxford College of Pharmacy P Pad wa PRINCIPAL



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# THE OXFORD COLLEGE OF PHARMACY

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# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Amulya.R. of Il Borass year has undergone a course on Adverse event reporting with emphasis on PV practice held at the Department of Pharmacy Practice, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR
Dr. JEENA SUSAN SAJI
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

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Dr. PARTHASARATHY G Dept of Pharmacy practice The Oxford College of Pharmacy P. Pad wo





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Amae of I Boham year
has undergone a course on Adverse event reporting with emphasis on PV
practice held at the Department of Pharmacy Practice, The Oxford College of
Pharmacy, Bengaluru, Karnatakà for the academic year 2023-2024.

COURSE COORDINATOR
Dr. JEENA SUSAN SAJI
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

HOD

Dr. PARTHASARATHY G Dept of Pharmacy practice The Oxford College of Pharmacy P. Padus PRINCIPAL





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. A.D. Nandhini of I Boham year has undergone a course on Adverse event reporting with emphasis on PV practice held at the Department of Pharmacy Practice, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR
Dr. JEENA SUSAN SAJI
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

HOD

Dr. PARTHASARATHY G Dept of Pharmacy practice The Oxford College of Pharmacy P. Pad us





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Divya . C. k of Il Boham has undergone a course on Adverse event reporting with emphasis on PV practice held at the Department of Pharmacy Practice, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR Dr. JEENA SUSAN SAJI **Dept of Pharmacy Practice** The Oxford College of Pharmacy

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Dr. PARTHASARATHY G Dept of Pharmacy practice The Oxford College of Pharmacy

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Children's Education Society (Regd.)

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#### COURSE ON NUTRITION AND DIETETICS MANAGEMENT FOR PATIENTS (COURSE CODE: NDM 2023-24)

#### NOTICE

Date: 15-07-2024

lo

Notice Board

lo be read in the class rooms

Course Co-ordinator-Dr Priyadharshini.M

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on Nutrition And Dietetics Management For Patients for the academic year 2023-24, for the benefit of B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 23/07/2024 and will be conducted after college hours on Tuesday, Wednesday, and Saturday. The eligibility criteria include students Pursuing Pharmacy Degree in B. Pharm. Interested students can enroll with Dr Priyadharshini. M, course coordinator on or before 22<sup>nd</sup> July 2024.

COURSE CO-ORDINATOR

Dr Priyadharshini.M

HOD

Dr Parthasarathy G

PRINCIPAL



#### Organizing Committee

Chairperson Dr. Padmaa M Paarakh. Principal.

TOCP, Bangalore.

HOD Dr G Parthasarathy

Department of Pharmacy

Practice

TOCP, Bangalore.

Program Coordinator Dr. Priyadharshini.M Department of Pharmacy

Practice

TOCP, Bangalore.

#### For Further Information Contact

Dr Priyadharshini.M

Assistant Professor

Department of Pharmacy Practice

TOCP, Bangalore

Email:

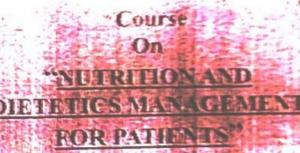
priya2022mahesh@gmail.com

#### THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the acgrs of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm Pharm D, and Pharm D (Post Baccalaureau) programs, TOCP is recognized by the Government of Karnataka, attiliated to Rajiv Gandhi University of Health Sciences. Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi, TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

#### ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree in B.Pharm





Organized by
THE OXFORD COLLEGE
OF PHARMACY

Department of Pharmacy Practice, 1st Main Rtl, Hongasandra, Bengaluru, Karnataka 560068

Duration: 30 hours
Last date for registration:22/07/2024
Date of commencement :23/07/2024
Planned Examination: After
completion of 30 hour classes.

#### REGISTRATION

Registration NIL It is a free course offered by Fees The Oxford College of Pharmacy Bangalore-68

Contact person for registration Dr Priyadharshini.M 8310366989

#### STRUCTURE

- Course will be conducted for 30 hours.
- Every Tuesday, Wednesday and Saturday after the college hours.

#### COURSE DESCRIPTION

The Department of Pharmacy Practice, TOCP, Bangalore introduces a thirty hours course on "Nutrition And Dietetics Management For Patients" (Course Code: NDM 2023-24). This course offers basic understanding on necessity of nutrition and dietary requirements for patient health.

#### OBJECTIVES OF PROGRAM

- To develop evaluate the impact of nutritional interventions on patient satisfaction and quality of life-
- promote To and managing management. preventing complications in patients with specific medical conditions.
- To develop insights on dietary prevention strategies for nutritional malnutrition and deficiencies and improve health outcomes and quality of life in patients.
- Create awareness on nutrition related disorders and management

#### FINAL ASSESSMENT

Final exams will be conducted at syllabus. end of the the

#### DURATION

Thirty hours.

#### OUTCOME

- ·Students will explore comprehensive knowledge on importance of dietary interventions in management of diseases.
- funderstanding, Students will acquire knowledge education about role of nutrition nutrient deficiency disorders and their
  - •This course helps the students to develop thorough understanding on role of different dietary supplements and their nutritional and therapeutic potential effects.

#### REGISTRATION PROCESS

Students can directly contact to the course coordinator Dr Priyadharshini, M



#### The Oxford College of Pharmacy

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#### COURSE ON NUTRITION AND DIETETICS MANAGEMENT FOR PATIENTS

(COURSE CODE: NDM 2023-24)

#### REGISTRATION LIST

INo.	Student Name	Signature
1	Shilpa Rathod	dilfa.
2	Shiva Kumar G	shiel a
3	Sirisha. M	Stible IM  Stible IM  Stible IM  Stible S:  Sum Kenish  Sp. Aighwrye  Suderylur Mishre.
4	Sirisha.S	Srides:
5	Sneha Harish	Que Karik
6	S. P. Aishwarya	8 P. Aighwrys.
7	Sudhanshu Mishra	Sidershur Mishra.
8	Sudharshan.S	Sudhardren
9	Sushmita Ranjan	Sushmita
10	Thanu Shree C	Thanu
11	Tt Lalnunpuia	+ latruspies
12	V R Srie Aria	VR Svie Atio
13	Yamuna R	Yamuma

COURSE CO-ORDINATOR

Dr Parthasarathy G

Dr Padmaa M Paarakh

Dr Priyadharshini.M

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068

(2): +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu
e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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# COURSE ON NUTRITION AND DIETETICS MANAGEMENT FOR PATIENTS (Course Code: NDM 2023-24)

#### **SYLLABUS**

MODULES	TOPICS						
	Introduction To Nutraceuticals						
	Basic Understanding About Nutrition						
	Micronutrients And Macronutrients and its Importance For Body						
	Classification Of Nutraceuticals						
	Balanced Diet and its components						
Module I	Use Of Nutraceuticals In Management Of Obesity And Diabetes						
	Nutraceuticals For Heart Diseases						
	Nutraceuticals For Cancer						
	Nutraceuticals For Osteoarthritis And						
	Nutraceuticals For Hypertension						
	Dietary Importance For Pregnant Women						
	Natural Antioxidants						
	Prebiotics And Probiotics						
	Role Of Different Vitamins And Minerals For Body						
	Malnutrition and its causes						
Module II	Iron Deficiency Anemia						
	Falate Deficiency -Neural Tube Defects						
	Magenesium Deficiency -Muscle Cramps/Weakness						
	Zinc Deficiency -Growth Retardation						
	Biotin Deficiency -Skin Rash And Hairloss						
	Thiamine Deficiency- WernickeKorsakoff Syndrome						
	Iodine deficiency- Hypothyroidism and Cretinism						
	Vit B 12 deficiency- Anemia						
	Vitamin D deficiency- Osteomalacia						
	Vitamin A deficiency -eye damage						
	Nutrition demands in geriatrics						
	Nutrition demands in paediatrics and growth spurts						
	Imporstance of dietary management for diseases						
	Consequences of over nutrition						
1.4 .	Discussion session with quiz activity						

CO-ORDINATOR

нор

P. Pad wa

Dr. Priyadharshini.M

Dr. G Parthasarathy





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# COURSE ON NUTRITION AND DIETETICS MANAGEMENT FOR PATIENTS (COURSE CODE: NDM 2023-24) SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	23/07/2024	TUESDAY	4.30-5.30PM	Inauguration  Module 1	Dr Padmaa M Paarakh
2	24/07/2024	WEDNESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini M
3	27/07/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
4	30/07/2024	TUESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
5	31/07/2024	WEDNESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
6	03/08/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
7	06/08/2024	TUESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
8	07/08/2024	WEDNESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
9	10/08/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
10	13/08/2024	TUESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
11	14/08/2024	WEDNESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
12	17/08/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
13	27/08/2024	TUESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
14	28/08/2024	WEDNESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
15	31/08/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
16	03/09/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini.M
17	04/09/2024	WEDNESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini.M
18	09/09/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini.M
19	10/09/2024	WEDNESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini.M
20	14/09/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini.M
21	14/09/2024	SATURDAY	2.30-3.30PM	Module 2	Dr Priyadharshini.M





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		rippio	sed by Friatmacy C	ouncil of India, New	Delhi)
22	17/09/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
23	18/09/2024	WEDNESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
24	21/09/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini M
25	24/09/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
26	25/09/2024	WEDNESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
27	28/09/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini.M
28	28/09/2024	SATURDAY	2.30-3.30PM	Module 2	Dr Priyadharshini.M
29	01/10/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
30	05/10/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini.M
31	05/10/2024	SATURDAY	2.30-3.00PM	Module 2	Dr Padmaa M Paarakh
				Valedictory	Dr Priyadharshini.M

COURSE CO-ORDINATOR

Dr Priyadharshini.M

Dr Parthasarathy G





#### The Oxford College of Pharmacy

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# COURSE ON NUTRITION AND DIETETICS MANAGEMENT FOR PATIENTS (COURSE CODE: NDM 2023-24)

#### **OUTCOME REPORT**

The Department of Pharmacy Practice, The Oxford College of Pharmacy, Bangalore-560068, completed Course on 'Nutrition And Dietetics Management For Patients' (Course Code: NDM 2023-24). 13 students were registered and the course was conducted for 30 hours.

This course offers basic understanding on necessity of nutrition and importance of dietary interventions for patient health.

#### OUTCOMES:

At the end of this course students were able to,

- Explore importance of dietary interventions in management of diseases.
- Acquire knowledge on nutrient deficiency disorders and their management.
- Develop thorough understanding on role of different dietary supplements and their potential nutritional and therapeutic effects.
- > To develop better understanding on dietary strategies for prevention of malnutrition and nutritional deficiencies and improve health outcomes and quality of life in patients

COURSE CO-ORDINATOR

HOL

PRINCIPAL

Dr Priyadharshini.M

Dr Parthasarathy G



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COURSE CO-ORDINATOR

HOD

PRINCIPAL

Dr Priyadharshini.M

Dr Parthasarathy G



# The Oxford College of Pharmacy

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# COURSE ON NUTRITION AND DIETETICS MANAGEMENT FOR PATIENTS (COURSE CODE: NDM 2023-24)

#### COMPLETION REPORT

The Department of Pharmacy Practice, The Oxford college of Pharmacy, Bangalore, conducted a course on "Nutrition And Dietetics Management For Patients" (Course Code: NDM 2023-24) for the academic year 2023-24. This course offers basic understanding on necessity of nutrition and dietary interventions for patient health.

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh. The function was conducted at Room No-506 and all the participants were introduced by Course Coordinator Dr Priyadharshini.M. 13 students were present. The inaugural function has been summed up with the introductory lecture of course coordinator Dr Priyadharshini.M.

A total 30 hours course had been conducted after college hours on Tuesday, Wednesday and Saturday. Total 13 students were enrolled for this course.

The syllabus of the course had been divided into two modules. After the completion of each modules an internal assessment was conducted and overall test was conducted after the completion of the course. The final results of the tests conducted for module I, II and overall were analysed. Approximately 32.2 % students scored grade A (marks percentage-100%) in all the tests followed by 38.9 % who scored grade B (marks percentage-90%) and 28.9 % scored grade C (marks percentage-80%).

The performance of the students in the tests were found excellent. About eighty percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 05/10/2024 and the course participation certificate were distributed to all 13 students by the Principal Dr.Padmaa M.Paarakh and Head of the Department Dr Parthasarathy.Dr Parthasarathy thanked Principal madam and management for providing best infrastructure for carrying out such courses.On behalf of department she promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students for this course and congratulated the Department of Pharmacy Practice and the course coordinator Dr Priyadharshini. M for the successful completion of the course.

COURSE CO-ORDINATOR

Dr Priyadharshini.M

Dr Parthasarathy G

Dr Padmaa M Paarakh

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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## COURSE ON NUTRITION AND DIETETICS MANAGEMENT FOR PATIENTS

### (Course Code:NDM 2023-24) Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	23/2	בוצכ	zala	30/2	31/2	3/8	cle	7/3	10/8	13/8	14/8	12/3	27	28/8	31/0
1	SHILPA RATHOD	SLX.	Bar	أبنو	St.W.	8/M	stip.	plek	81/9°	Shik	A. A.	My.	434	P. Bole	My	Hote
2	SHIVA KUMAR G	843	Stá	ský	84	Ari	Mr.	外	84	260	Ohing	ishi	8hj	姚	84	814
3	SIRISHA. M	87	Rt	07	P	87	87	87	87	87	87	87	87	87	87	87
4	SIRISHA.S	82	4	87	3	82	4	82	82	&	82	85	8	82	87	Je
5	SNEHA HARISH	8	8	T	3	0	9	8		00	8	1	Ø	6		8
6	.S. P. AISHWARYA	Jun J	柳	*í	*	计	*má	tri	析	M	trá	tm.j	trá	种	trá	trá
7	SUDHANSHU MISHRA	3.M	30	J.M	3.M	S:A	8·M	9:0	8:M	3/1	3.0	9 <u>M</u>	s <u>·M</u>	9.M	S.M	SM
8	SUDHARSHAN.S	8.9	2.5	3.9.	2.5	25	3.5	5.5	3.5	5:5	3.9	3.8	5.5	وي	3.8	3.9
)	SUSHMITA RANJAN	SB.	20	超	38	遇	起	超	B	SE	30	3	鹄	8B	Re	SB
10	THANU SHREE C	pit	FX1-	FA	graf.	74	Fet	78	F-84	FN	<b>18</b> ‡	FN	FY	F.4	M	F84
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Approved by Pharmacy Council of India, New Delhi)

# COURSE ON NUTRITION AND DIETETICS MANAGEMENT FOR PATIENTS

# (Course Code: NDM 2023-24) Attendance Statement

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Date of the Class	3/9	44	9/9	10/9	14/9	14/4	17/9	18/9	21/9	24/9	-	,			,
1	SHILPA RATHOD	shir		dy.	16/1/	254	6.hr	Nh		KUP	Note	25h	28/9	284	1/10	5/10
2	SHIVA KUMAR G	M	,	84	Shi	shá	ichs	suj	8 2	14	وليا	84	1349	91:	Shy	
3	SIRISHA. M	8	0	87	N	D	B	a	87	87	01	82	3	07	and and	2
4	SIRISHA.S	84	8	80	Sa	Cy	Say	SI	87	84	er	24	82	OT Les	ly	U
5	SNEHA HARISH	8	95	8	65	15	10	8	85	11.600	88	8	@ T	6	10	805
6	S. P. AISHWARYA	لمسلم	inf	draf	frot	Jung.	لجسل	traf	h-j	Les	Jung 1	- '	الممار		ا المسلا	کیدا
7	SUDHANSHU MISHRA	100	21	300	-3:0	50	5:0			20	9-10	, ,	8:A	3.M	2.00	3.0
8	SUDHARSHAN.S	2.5	95	35	35	5.5	35	1.5	39	5.5	39	5.5	5.9	3.9	3 f	3.9
9	SUSHMITA RANJAN	5	8	0	B	3	80	S	8	8	<b>®</b>	6	60	*	8	80
10	THANU SHREE C	PA	KH	FH	124	r4	M	14	M	14	FRI	FY	FUJ	Ty	Tist	14
1	TT LALNUNPUIA	July	poli	Lay	pol 4	Laty	Hy	fatt	Laly	Ldg.	hah	foly	Anh	Ly	Loly	Luly
2	V R SRIE ARIA	V P	rR	V.R	VR	rR	V.R	v.R	V.R	V-R	VR	V-R	VR	VR	VR	·V.6
3	YAMUNA R	B	8	Ø	1	8	8	8	8	Ø	8	8	Ó	*	8	8
	SIGNATURE	Q	P	9	12	0	19	D	0	2	2	D	12	Q	8	2





THE OXFORD COLLEGE OF PHARMACY
# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to c	ertify that	YAMUN	A R	of	B PHARY	has
undergone an						
Patients' held						
College of Pha						
24.					,	-

Course Coordinator

HOD

Principal

Dr Priyadharshini.M
Dept. of Pharmacy Practice
The Oxford College of Pharmacy

Dr. G Parthasarathy
Dept. of Pharmacy Practice
The Oxford College of Pharmacy





# THE OXFORD COLLEGE OF PHARMACY # 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

Course Coordinator

HOD

Principal

Dr Priyadharshini.M
Dept. of Pharmacy Practice
The Oxford College of Pharmacy

Dr. G Parthasarathy
Dept. of Pharmacy Practice
The Oxford College of Pharmacy

Oxford

THE OXFORD COLLEGE OF PHARMACY
# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## **PARTICIPATION CERTIFICATE**

This is to certify that ....\$1818HA.M...of ...\$PHARM...has undergone an Course on 'Nutrition And Dietetics Management For Patients' held at the Department of Pharmacy Practice, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

Course Coordinator

HOD

P. Pod aco Principal

Dr Priyadharshini.M Dept. of Pharmacy Practice The Oxford College of Pharmacy Dr. G Parthasarathy
Dept. of Pharmacy Practice
The Oxford College of Pharmacy

Oxford

THE OXFORD COLLEGE OF PHARMACY # 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

Course Coordinator

HOD

Principal

Dr Priyadharshini.M

Dept. of Pharmacy Practice The Oxford College of Pharmacy Dr. G Parthasarathy
Dept. of Pharmacy Practice
The Oxford College of Pharmacy

Oxford

# THE OXFORD COLLEGE OF PHARMACY # 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## **PARTICIPATION CERTIFICATE**

This is to certify that .... Sudhardand .... of .... Bahard .... has undergone an Course on 'Nutrition And Dietetics Management For Patients' held at the Department of Pharmacy Practice, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

Course Coordinator

HOD

Principal

**Dr Priyadharshini.M**Dept. of Pharmacy Practice

The Oxford College of Pharmacy

Dr. G Parthasarathy

Dept. of Pharmacy Practice The Oxford College of Pharmacy Dr. Padmaa M Paarakh

The Oxford College of Pharmacy



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### COURSE ON INTRODUCTION TO BASIC LIFE SUPPORT METHODS

(Course Code: IBLSM 2023-24)

#### NOTICE

Date: 04-01-2024

To

Notice Board

To be read in the classrooms

Course Coordinators- Dr Jenisha k

To be filed

The Department of Pharmacy practice, The Oxford College of Pharmacy, Bangalore introduces 30 hours course on Introduction to Basic Life Support Methods for the academic year 2023-24, for the benefit of B Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 12th Jan 2024 and will be conducted after the college hours on Monday, Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is B Pharm students. Interested students can enroll with Dr Jenisha k, course coordinators on or before 08th Jan 2024.

Course Coordinator

Dr. Jenisha K

Dr. Parthasarathy G



### **Organizing Committee**

Chairperson	Dr. Padmaa M
	Paarakh, Principal,
	TOCP, Bengaluru.
HOD	Dr. Parthasarathy G
	HOD, Department of
	Pharmacy Practice
	TOCP, Bangalore.
Course	Dr Jenisha K
Members	9741024432

### For Further Information Contact Dr JENISHA K

Email: jenishaks98@gmail.com Course Coordinator Department of PharmacyPractice,TOCP, Bengaluru

### THE OXFORD COLLEGE OF PHARMACY

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### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree B Pharm Students from second, third, fourth, B Pharm Students.

### Course On "INTRODUCTION TO LIFE SUPPORT METHODS"



Estd. 1974

Organized by

### THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacy practice 1st Main rd., Hongasandra, Bengaluru, Karnataka -560 068

Important Dates

**Duration: 30 hours** 

Last date for registration: 08TH JAN

2024

Date of commencement: 12th Jan

2024

Final Evaluation: 04 OCT 2024

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact person for registration	Dr JENISHA K Course Coordinator

#### **STRUCTURE**

- Course will be conducted for 30 hours after college hours.
- Every Monday, Fridays and Saturdays after college hours

### COURSE DESCRIPTION

The Department of Pharmacy Practice, TOCP, Bangalore- 560068 introduces a course INTRODUCTION TO BASIC LIFE SUPPORT METHODS(course code: IBLSM 2023-24) teaches about the comprehensive advanced life support methods for students which focus on cardiovascular, respiratory, renal, neurological and hepatic life support

# OBJECTIVES OF THE PROGRAM

- Understand life support principles and modalities.
- Identify indications and contraindications for life support.
- Demonstrate proficiency in life support techniques.
- Apply critical thinking in life support decision-making.
- Apply life support principles in real-life scenarios.
- Integrate life support into patient care plans.
- Collaborate with healthcare teams to provide effective life support.
- Evaluate the effectiveness of life support interventions.

### FINAL ASSESSMENT

Final evaluation will be conducted at the end of the syllabus

#### OUTCOME

- Understanding of life support principles and modalities
- Familiarity with life support equipment and technology.
- Knowledge of indications and contraindications for life support
- Understanding of life support protocols and guidelines.
- Recognition of the importance of timely and effective life support.
- Ability to apply life support principles in real-life scenarios.
- Ability to evaluate the effectiveness of life support interventions.
- Development of critical thinking skills for life support decisionmaking.

#### REGISTRATION PROCESS

Students can directly contact the course coordinator- Dr. Jenisha k CONTACT: 9741024432

#### DURATION

30 hours beginning from 12th JAN 2024



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#### COURSE ON INTRODUCTION TO BASIC LIFE SUPPORT METHODS

(Course Code: IBLSM 2023-24)

#### REGISTRATION LIST

S.No	Student Name	Signature
1	A YESWANTH	Journath.
2	ABHINAV ANAND	Abinau
3	ABHISHEK H PATIL	the provide
4	ABISHEKA.M	Shisher.
5	ADITYA	Adifya
6	AKASH. R	-Atauh.
7	AKSHITHA.A	akashtha
8	ALLURI YASWANTH	Alluli
9	AMRIN A	Trace.
10	R.ANBALAGAN	1 Anton
11	ANUPRIYA.K	America
12	ANUSHKA SINGH	Rosa.
13	ASHWINI.B.S	Alshini
14	AYESHA MARYAM	-Ageston.
15	B M MONIKA	Monker
16	BHAGYASHREE	Bhacus
17	BHARATH.B	Bharath.
18	BHASKAR.C	The same of the sa
19	BHOOMIKA	Bhoomica.
20	DEENA K R	Dena.
21	DEEPIKA V	Deepika.
22	DEVENDRA D	Teri
23	E DILIP KUMAR	E.Dulip
24	DIPANJANA NAYEK	Dan
25	GANESH KUMAR	





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26	GEETHA.M	Soulf
27	GOKILAN.N	963
28	GOWTHAM. V	
29	GUNASHREE.M	bonnoheren M
30	HANUMANTARAYA GOUDA	Annedoraga acos

Course Coordinator

Dr. Jenisha K

Dr. Parthasarathy G







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#### COURSE ON INTRODUCTION TO BASIC LIFE SUPPORT METHODS

(Course Code: IBLSM 2023-24)

#### SYLLABUS

MODULES	TOPICS
	Introduction to Life Support
	Definition
	History and evolution of life support
	Ethical considerations
	Protocols on basic life support
	Methods of basic life support
MODULE - I	Cardiovascular Life Support
MODULE - I	Cardiopulmonary resuscitation (CPR)
	Defibrillation and cardiac pacing
	Vasopressor and inotrope therapy
	Respiratory Life Support
	Mechanical ventilation
	Oxygen therapy and non-invasive ventilation
	Respiratory failure management
	Renal Life Support
	Haemodialysis and peritoneal dialysis
	Continuous renal replacement therapy (CRRT)
	Renal failure management
	Neurological Life Support
	intracranial pressure (ICP) monitoring
MODULE - II	Sedation and analgesia
MODULE - II	Seizure management
	Hepatic Life Support
	Liver transplantation
	Artificial liver support systems
	Hepatic failure management
	Paediatric and neonatal life support
	Life support in trauma and burns
	Life support in sepsis and multi-organ failure
	Real-life scenario discussions
	Simulation-based training

Course Coordinator

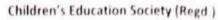
Dr. Jenisha K

Hod

Dr. Parthasarathy G

Principal







### The Oxford College of Pharmacy

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#### COURSE ON INTRODUCTION TO BASIC LIFE SUPPORT METHODS

(Course Code: IBLSM 2023-24)

#### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1.	12-01-2024	Friday	4.00pm-5.00pm	Inaugural Module-1	Dr. Padmaa. M. Paarakh Dr. jenisha k
2.	13-01-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
3.	19-01-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
4.	20-01-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
5.	22-01-2024	Monday	4.00pm-5.00pm	Module-1	Dr. jenisha k
6.	27-01-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
7.	29-01-2024	Monday	4.00pm-5.00pm	Module-1	Dr. jenisha k
8.	02-02-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
9.	03-02-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
10.	05-02-2024	Monday	4.00pm-5.00pm	Module-1	Dr. jenisha k
11.	09-02-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
12.	10-02-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
13.	12-02-2024	Monday	4.00pm-5.00pm	Module-1	Dr. jenisha k
14.	16-02-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
15.	17-02-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
16.	24-02-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
17.	26-02-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
18.	01-03-2024	Friday	4.00pm-5.00pm	Module-2	Dr. jenisha k
19.	02-03-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
20.	04-03-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k







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21.	09-03-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
22.	11-03-2024	Monday	4.00pm-5.00pm	Module-2	Dr jenisha k
23.	15-03-2024	Friday	4.00pm-5.00pm	Module-2	Dr. jenisha k
24.	16-03-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
25.	18-03-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
26.	22-03-2024	Friday	4.00pm-5.00pm	Module-2	Dr. jenisha k
27.	23-03-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
28.	25-03-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
29.	30-03-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
30.	01-04-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
31.	06-04-2024	Saturday	1.00pm-2.00pm	Valedictory	Dr. jenisha k

Course Coordinator

Dr. Jenisha K

Dr. Parthasarathy G

Hod J





## The Oxford College of Pharmacy

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### COURSE ON INTRODUCTION TO BASIC LIFE SUPPORT METHODS

(Course Code: IBLSM 2023-24)

#### COMPLETION REPORT

The Department of Pharmacy practice, The Oxford college of Pharmacy, Bangalore, conducted a course on Introduction to Basic Life Support Methods (Course Code: IBLMS 2023-24) for the academic year 2023-24. The course was intended to impart knowledge about the basic life supports methods that can help the students to handle any clinical emergencies.

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh. The function was conducted at Room NO-505 and all the participants were introduced by Course Coordinators Dr Jenisha K. Total 30 students were present. The inaugural function has been summed up with the introductory lecture of course coordinator Dr. Jenisha K.

A total 30 hours course had been conducted on Monday, Friday and Saturday after college hours. Total 30 students were enrolled for this course.

The syllabus of the certificate course had been divided into two modules. After the completion of each modules an internal assessment was conducted, and overall test was conducted after the completion of the course. The results of module I, II and overall were analysed. Approximately 24% students scored grade A (marks percentage-100%) in all the tests followed by 40% who scored grade B (marks percentage-90%) and 36% scored grade C (marks percentage-80%).

The performance of the students in the tests were found excellent. About eighty eight percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 06-04-2024 and the participation certificate distributed to all 30 students by the Principal and Head of the Department Dr Parthasarathy G, and he had thanked Principal and management for providing best infrastructure for carrying out such courses. Behalf of department he promised to carry out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, had appreciated the enthusiasm of the students in this course and congratulate the Department of Pharmacy practice and the course coordinator Dr Jenisha K for the completion of course.

Course Coordinator

Hod V

Dr. Padmaa M Paarakh

Dr. Jenisha K

Dr. Parthasarathy G



### The Oxford College of Pharmacy

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#### COURSE ON INTRODUCTION TO BASIC LIFE SUPPORT METHODS

(Course Code: IBLSM 2023-24)

OUTCOME

The Department of Pharmacy practice, The Oxford College of Pharmacy, Bangalore- 560068, completed course Introduction to Basic Life Support Methods (Course Code: IBLSM 2023-24). Overall 30 students were registered and the course was conducted for 30 hours. This course has helped the students in comprehensive advanced life support methods for students which focus on cardiovascular, respiratory, renal, neurological and hepatic life support.

Outcomes: At the end of this course students were able to:

- · Understanding of life support principles and modalities.
- · Familiarity with life support equipment and technology.
- Knowledge of indications and contraindications for life support.
- · Understanding of life support protocols and guidelines.
- · Recognition of the importance of timely and effective life support.
- Ability to apply life support principles in real-life scenarios.
- · Ability to evaluate the effectiveness of life support interventions.
- Development of critical thinking skills for life support decision-making.

The students were satisfied and were keen to attend such programs in future.

Course Coordinator

Dr. Jenisha K

Hod

Dr. Parthasarathy G

Principal



## The Oxford College of Pharmacy

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### COURSE ON INTRODUCTION TO BASIC LIFE SUPPORT METHODS

(Course Code: IBLSM 2023-24)

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### The Oxford College of Pharmacy

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#### COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY PRACTICE

#### (Course Code: IBLMS 2023-24)

		1			***	20	1	-				24	22	26	20	30
S.N	Name of the student	16	17	18	19	20	21	22	2.3	24	25	26	27	28	29	50
1	A Yeswanth	0	B	0	D	1	AD)	0	A	B	净	0	D	13	P	A)
2	Abhinay Anand	Af	Al	At	#	A	#	Af	1	11	-11	#	N	*	1	*
3	Abhishek H Patil	1	A	N	12	de	D	N	by	to	M	12	X	M	A	X.
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10	R.Anbalagan	P.Anb	PANO	Park	Style	PAND	Par	DW.	PAK	PAN	PA	FAI	PAN	KA	TAN	Panka
11	Anupriya.K	Mes	tw	ALL	Nes	Mor	Au	AN	Dun	Ayen	by	My.	ton	Bur	Bu	Autor
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13	Ashwini.B.S	dis	16	713	AB	Aby	Als	114	A	The	Als	104	Als	Ales	Ak	Abs
14	Ayesha Maryam	A	1	A	8	(8)	B	A	0	1	0	1	1	4	1	4
15	B M Monika	0	2	P	2	2	P	P	P	P	R	0	P	R	12	0
16	Bhagyashree	8	B	8	B	18	B	8	B	E	8	B	8	B	B	B
17	Bharath.B	Mad	Bla	B/691	Person	MACO	140	Bla	Dra	tha	Bobo	that	Dia	1860	PAO	1960
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# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. ANUPRIYA. k of 2nd B. PHARM year
has undergone an course on "Introduction to life support methods" held at
Department of Pharmacy Practice, The Oxford College of Pharmacy,
Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

нор

P. Padaus PRINCIPAL

Dr. JENISHA K
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

Dr. PARTHASARATHY G Dept of Pharmacy Practice The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. BM MONIKA of 2<sup>rd</sup> B PHARM year has undergone an course on "Introduction to life support methods" held at Department of Pharmacy Practice, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

HOD

P. Padue

Dr. JENISHA K
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

Dr. PARTHASARATHY G Dept of Pharmacy Practice The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. E PILIP KUMAR of 3<sup>RD</sup>B PHARM year has undergone an course on "Introduction to life support methods" held at Department of Pharmacy Practice, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

HOD

P Pad wo

Dr. JENISHA K Dept of Pharmacy Practice The Oxford College of Pharmacy

Dr. PARTHASARATHY G Dept of Pharmacy Practice The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Ganesh kumpe of 3th B pharm year has undergone an course on "Introduction to life support methods" held at Department of Pharmacy Practice, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

HOD

P. Paguo

Dr. JENISHA K
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

Dr. PARTHASARATHY G Dept of Pharmacy Practice The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. DEENA K R of 3 PD B-PHARM year
has undergone an course on "Introduction to life support methods" held at
Department of Pharmacy Practice, The Oxford College of Pharmacy,
Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

нор

PRINCIPAL

Dr. JENISHA K
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

Dr. PARTHASARATHY G
Dept of Pharmacy Practice
The Oxford College of
Pharmacy



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# COURSE ON DESIGN OF QUESTIONNAIRE AND SCORING METHODS FOR CLINICAL ASSESSMENT (COURSE CODE: DOQ 2023-24)

#### NOTICE

Date: 10-01-2024

To

Notice Board

To be read in the class rooms

Course Co-ordinator-Dr Priyadharshini.M

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on Design of Questionaire and scoring methods for Clinical assessment for the academic year 2023-24, for the benefit of B.Pharm, students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 16/01/2024 and will be conducted after college hours on Tuesday, Thursday, and Saturday. The eligibility criteria include students Pursuing Pharmacy Degree in B.Pharm. Interested students can enroll with Dr Priyadharshini. M, course coordinator on or before 12<sup>th</sup> Jan 2024.

COURSE CO-ORDINATOR

Dr Priyadharshini.M

HOD

Dr Parthasarathy G

P (Padus

### **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr G Parthasarathy Department of Pharmacy Practice TOCP, Bangalore.
Program Coordinator	Dr Priyadharshini.M Department of Pharmacy Practice TOCP, Bangalore.

### For Further Information Contact

### Dr Priyadharshini.M

Assistant Professor

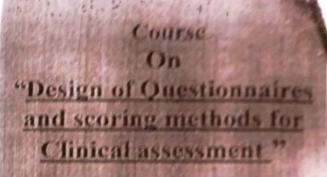
Department of Pharmacy Practice
TOCP, Bangalore
Email:
priya2022mahesh@gmail.com

### THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm, D. and Pharm, D. (Post Baccalaureate) programs, TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University, of "Health Sciences, Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi, TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree in B.Pharm





Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacy Practice. 1st Main Rd, Hongasandra, Bengaluru . Kamataka 560068

Doration: 30 hours

Last date for registration:12/01/2024

Date of commencement (16/01/2024

Planned Examination (After completion of 30 hour classes.

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Dr Priyadharshini.M 8310366989

### STRUCTURE

- Course will be conducted for 30 hours.
- Every Tuesday, Thursday and Saturday after the college hours.

### COURSE DESCRIPTION

The Department of Pharmacy
Practice, TOCP, Bangalore
introduces a thirty hours course
on 'Design of Questionnaire
and scoring methods for
Clinical assessment' (Course
Code: DOQ 2023-24). This
course offers knowledge on
designing and development of
questionnaire with scoring
methods for clinical assessment

# OBJECTIVES OF PROGRAM

- To develop insights on methodology for designing and development of questionnaire.
- To promote understanding on different considerations and characteristics for development of a standard questionnaire of clinical assessment.
- To promote awareness on criteria for a good questionnaire design
- To develop methodology for scoring methods.

### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus.

### DURATION

Thirty hours.

### OUTCOME

- Students will explore comprehensive knowledge on designing and development of questionnaire.
- Students will acquire knowledge on different scoring methods for clinical assessment.
- •This course helps the students to develop thorough understanding on various considerations for designing and developing questionnaire for study.

### REGISTRATION PROCESS

Students can directly contact to the course coordinator Dr Priyadharshini.M



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# COURSE ON DESIGN OF QUESTIONNAIRE AND SCORING METHODS FOR CLINICAL ASSESSMENT

#### (COURSE CODE: DOQ 2023-24)

#### REGISTRATION LIST

INo.	Student Name	Signature
1	MADHUSHREE	Madhuelree
2	MANOHAR K	Marchet, 14.
3	MANOJ KUMAR M	marej Kuner, r
4	MANSI BEN OZA	Mansi
5	MEGHANA S	Meghana · 5
6	MEGHANA NADGIR	deeghamas.
7	MITHUN N	Mithun
8	MONIKA S REDDY	Monika Reddy
9	MONIKA N	Monika Agod ;
10	NASIBA N K	Nasiba
11	NIDHISHREE S	Nidhishour.s
2	NIKSHEP N S	plinshep. N 5
3	P.JEEVITHA	P. Teevitha.
4	PALLAVI S	Palland.
15	PREETHU K	Gossber . K.

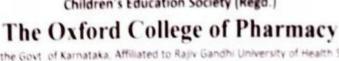
COURSE CO-ORDINATOR

Dr Parthasarathy G

Dr Padmaa M Paarakh

Dr Priyadharshini.M





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### COURSE ON DESIGN OF QUESTIONNAIRE AND SCORING METHODS FOR CLINICAL ASSESSMENT

(Course Code: DOQ 2023-24)

### **SYLLABUS**

MODULES	TOPICS							
	Introduction To Questionnaire design							
	Purpose and importance of questionnaires in clinical assessment							
	Basic Understanding about requirements for building ideal questionnain							
	Specifications for ideal questionnaire design							
todule l	Types of questionnaires							
Module 1	Structured questionnaire							
	semi-structured questionnaire							
Module 1	Unstructured questionnaire							
	Framework of questionnaire design							
	Structuring questions for inclusion in questionnaire							
	Comprehensive literature review for framing questions							
	Primary and secondary literature resources							
	Tertiary resources for framing questionnaire							
	Questionnaire optimization							
	Need and importance for Questionnaire validation							
Module II	Questionnaire validation process							
	Validation by health care professionals							
	Validation by Academic experts							
	Validation by layperson and patients							
	Graphical methods for validating the reliability of questionnaire							
	Specifications for validation of questionaire							
Module II	ICVI							
	Evaluation Of Consistency of 1CV1							
	SCVI							
	Evaluation Of Consistency of SCVI							
	Cronbach Alpha Score Various Domains For Validation							
	Acceptability criteria for Cronbach Alpha Score							
	Assessment Of Idealness Of Questionnaire							
	Use Of Software System For Questionnaire Development							
	Discussion session with quiz activity							

Dr. Priyadharshini.M

Dr. G Parthasarathy





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### COURSE ON DESIGN OF QUESTIONNAIRE AND SCORING METHODS FOR CLINICAL

#### ASSESSMENT (COURSE CODE: DOQ 2023-24) SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	16/01/2024	TUESDAY	4.30-5.30PM	Inauguration  Module 1	Dr Padmaa M Paarakh
2	18/01/2024	THURSDAY	4.30-5.30PM	Module 1	Dr Priyadharshini M
3	20/01/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini M
4	23/01/2024	TUESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini M
5	25/01/2024	THURSDAY	4.30-5.30PM	Module 1	Dr Priyadharshini M
6	27/01/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
7	30/01/2024	TUESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
8	01/02/2024	THURSDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
9	03/02/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
10	06/02/2024	TUESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
11	08/02/2024	THURSDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
12	10/02/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
13	13/02/2024	TUESDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
14	15/02/2024	THURSDAY	4.30-5.30PM	Module 1	Dr Priyadharshini.M
15	17/02/2024	SATURDAY	1.30-2.30PM	Module 1	Dr Priyadharshini.M
16	27/02/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini.M
17	29/02//2024	THURSDAY	4.30-5.30PM	Module 2	Dr Priyadharshini.M
18	02/03/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini.M
19	05/03/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
20	07/03/2024	THURSDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
21	09/03//2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini M



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74		- Appli	over of transmissi	Commen or many	
22	12/03/2024	TUESDAY	4-30-5-30PM	Module 2	Dr Priyadharshini M
23	14/03/2024	THURSDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
24	16/03/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini M
25	19/03/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
26	21/03/2024	THURSDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
27	23/03/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini M
28	26/03/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
29	28/03/2024	THURSDAY	4.30-5.30PM	Module 2	Dr Priyadharshini.M
30	30/03/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini.M
31	30/03/2024	SATURDAY	2.30-3.00PM	Module 2	Dr Padmaa M Paarakh
				Valedictory	Dr Priyadharshini.M

COURSE CO-ORDINATOR

HOD

P. Rad wa

Dr Priyadharshini.M

Dr Parthasarathy G





## The Oxford College of Pharmacy

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22	12/03/2024	TUESDAY	4 30-5 30PM	Module 2	Dr Priyadharshini M
23	14/03/2024	THURSDAY	4 30-5 30PM	Module 2	Dr Priyadharshini M
24	16/03/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini M
25	19/03/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
26	21/03/2024	THURSDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
27	23/03/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini M
28	26/03/2024	TUESDAY	4.30-5.30PM	Module 2	Dr Priyadharshini M
29	28/03/2024	THURSDAY	4.30-5.30PM	Module 2	Dr Priyadharshini.M
30	30/03/2024	SATURDAY	1.30-2.30PM	Module 2	Dr Priyadharshini.M
31	30/03/2024	SATURDAY	2.30-3.00PM	Module 2	Dr Padmaa M Paarakh
				Valedictory	Dr Priyadharshini M

COURSE CO-ORDINATOR

HOD

PRINCIPAL

Dr Priyadharshini.M

Dr Parthasarathy G





### The Oxford College of Pharmacy

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# COURSE ON DESIGN OF QUESTIONNAIRE AND SCORING METHODS FOR CLINICAL ASSESSMENT (COURSE CODE: DOQ 2023-24)

#### OUTCOME REPORT

The Department of Pharmacy Practice, The Oxford College of Pharmacy, Bangalore-560068, completed Course on 'Design Of Questionnaire and Scoring Methods for Clinical Assessment' (Course Code DOQ 2021. 24).15 students were registered and the course was conducted for 30 hours.

This course offers the necessary skills and knowledge for designing and development of ideal questionnaire for clinical assessment.

#### OUTCOMES:

At the end of this course students were able to,

- > To acquire insights on methodology for designing and development of questionnaire.
- Enabled better understanding on different considerations and characteristics for development of a standard questionnaire of clinical assessment.
- Acknowledge on criteria for a good questionnaire design and specifications for designing ideal questionnaire.

> To develop better understanding on methodology for framing questions and validation.

COURSE CO-ORDINATOR

Dr Priyadharshini.M

Dr Parthasarathy G





### The Oxford College of Pharmacy

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# COURSE ON DESIGN OF QUESTIONNAIRE AND SCORING METHODS FOR CLINICAL ASSESSMENT (COURSE CODE: DOQ 2023-24)

#### COMPLETION REPORT

The Department of Pharmacy Practice, The Oxford college of Pharmacy, Bangalore, conducted a course on "Design Of Questionnaire And Scoring Methods For Clinical Assessment" (Course Code:DOQ 2023-24) for the academic year 2023-24. This course offers the necessary knowledge and skills for designing and development of ideal questionnaire for clinical assessment.

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh. The function was conducted at Room No-501 and all the participants were introduced by Course Coordinator Dr Priyadharshini.M. 15 students were present. The inaugural function has been summed up with the introductory lecture of course coordinator Dr Priyadharshini.M.

A total 30 hours course had been conducted after college hours on Tuesday, Thursday and Saturday. Total 15 students were enrolled for this course.

The syllabus of the course had been divided into two modules. After the completion of each modules an internal assessment was conducted and overall test was conducted after the completion of the course. The final results of the tests conducted for module I, II and overall were analysed. Approximately 32.2 % students scored grade A (marks percentage-100%) in all the tests followed by 38.9 % who scored grade B (marks percentage-90%) and 28.9 % scored grade C (marks percentage-80%).

The performance of the students in the tests were found excellent. About eighty percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 30/03/2024 and the course participation certificate were distributed to all 15 students by the Principal Dr.Padmaa M.Paarakh and Head of the Department Dr Parthasarathy.Dr Parthasarathy thanked Principal madam and management for providing best infrastructure for carrying out such courses.On behalf of department she promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students for this course and congratulated the Department of Pharmacy Practice and the course coordinator Dr Priyadharshini. M for the successful completion of the course.

COURSE CO-ORDINATOR

Dr Priyadharshini.M

Dr Parthasarathy G

Dr Padmaa M Paarakh

Oxford

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## The Oxford College of Pharmacy

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# COURSE ON DESIGN OF QUESTIONNAIRE AND SCORING METHODS FOR CLINICAL ASSESSMENT

(Course Code: DOQ 2023-24)
Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	16/1	18/1	20/1	23/1	25/1	22h	30/1	1/2	3/2	6/2	8/2	10/2	13/2	15/2	13/2
1	MADHUSHREE	M	M	2	M	B	M	M	M	M	M	M	M	M	M	M
2	MANOHAR K	M.11	m.1	m.k	WIL	m.k	m.k	m.le	m.k	m.11	m.H	M.K	mu	mu	mu	m.u
3	MANOJ KUMAR M	u.k	11:1	al.K	M.K	W.K	N.K	W.K	w.K	wr	W.K	u. K	u.k	عند	4.4	· M· K
4	MANSI BEN OZA	M	M.	NE	ME	M	M.	ME.	M	M	M	M	-UF	M	M	M
5	MEGHANA S	8	1	8	10	05	6	8	0	8	0	1	Ø	8	Ø	•
6	MEGHANA NADGIR	my	- Jugue	my	w. of	my	M	M.N	war	u.n	n.ge	ww.	wy	M.A.	MAR	cup
7	MITHUN N	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
8	MONIKA S REDDY	1	3	à	8	爱	k	18	8/2	PL.	2	100	8	Ø	<b>R</b>	與
9	MONIKA N	Mh	m	MA	mn	ww	m	m	WW	m	MM	nn	mn	ми	m	MA
10	NASIBA N K	N	N	N	N	N	N	N	N	N	N	N	M	N	N	N
11	NIDHISHREE S	la	1l	pl	R	ll	R	le	R	R	R	al	R	R	A	A
12	NIKSHEP N S	N.5	N3	N.S	N.8	N.S	NS	N-9	N-S	N-9	N.S	N.S	N.S	N.S	NS	NS
13	P.JEEVITHA	P.5	P-5	PS	P.5	P5	PF	1.5	PJ	PJ	p-5	PS	PJ	p-5	P-5	PJ
14	PALLAVI S	P.S	p.e	P.S	P.S	P. 9	Pe	P.S	P.C.	P.f	P.S.	P.C.	6.1	P.P	P.P	PP
15	PREETHU K	P.K	P.K	B.K	P.K	P.K	PK	P.K	P.K	P.K	PK	P.K	PK	P.K	PK	P. K
	SIGN	12		-	12	Q	R	2	P	12	P	9	Q	-	Q	Q





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# COURSE ON DESIGN OF QUESTIONNAIRE AND SCORING METHODS FOR CLINICAL ASSESSMENT

(Course Code: DOQ 2023-24) Attendance Statement

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Date of the Class	27/2	29/2	2/2	53	7/3	9/3	12/5	14/3	16/3	19/3	21/3	tsh	26/3	20/3	30/
1	MADHUSHREE	8	0	0	6	*	8	B	8	В	8	8	8	6	*	6
2	MANOHAR K	m.k	m.K	M-K	M.K	W.K	M.K	M.K	M.K	m.K	M-K	M.K	17-4	MK	M-K	m. 4
3	MANOJ KUMAR M	bus.	100	box	d	h	H	M.	مد	bas	has	ha	ka.	hea	het.	bu
4	MANSI BEN OZA	MANO	200	MRO	MAS	NBO	wee	NRO	Mas	-		was	NAO	Mis	NA	MA
5	MEGHANA S	M	Me	me	me	Me	me	me	Mo	me	me	me	me	Me	m	my
6	MEGHANA NADGIR	u	W.	w.	N.	22	36	W.	328	Ju Ju	u K	12	11/2	12	32	32
7	MITHUN N	14	N	M	W	M	M	M	M	M	4	N	Μ.	M	N	~
8	MONIKA S REDDY	ha		ho	ha	has	ha	ho	ho	,	ho	mo		hye	L	-N
9	MONIKA N	NI	m	m	m	-	Mn	M	mu	MA	My	M	MY	Mh	MA	NA
10	NASIBA N K	W	W	nd	NE	NY	No	ny	M	w	M	ne	N	N	N	N
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13	P.JEEVITHA	1	5	1	i	-	i	1	1.0	ì	1	7	17	-	۲: الا	7
14	PALLAVI S	A	6	Ø	8	8	8	8	Ø	Ø		85	0	B	B	0
15	PREETHU K	ho	be	he	he	be	he	he	pro-	ha	ho	he	ha	ha	ho	4
	SIGNATURE	12	P	D	0	0	ed .	19	M.	Q.	W)	12	Q	20	0	0



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# THE OXFORD COLLEGE OF PHARMACY # 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# **PARTICIPATION CERTIFICATE**

Course Coordinator

HOD

Principal

Dr Priyadharshini.M

Dept. of Pharmacy Practice
The Oxford College of Pharmacy

Dr. G Parthasarathy
Dept. of Pharmacy Practice
The Oxford College of Pharmacy





# PARTICIPATION CERTIFICATE

undergone an Course on "Design Of Questionnaire and Scoring Methods for Clinical Assessment" held at the Department of Pharmacy Practice, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

Course Coordinator

HOD

Principal

Dr Priyadharshini.M

Dept. of Pharmacy Practice The Oxford College of Pharmacy

Dr. G Parthasarathy Dept. of Pharmacy Practice The Oxford College of Pharmacy



# PARTICIPATION CERTIFICATE

This	is	to	certify	that	Меан	0	fBPHAR	has
unde	rgor	ne ai	n Course	on "	Design Of Q	uestionnaire	and Scoring	Methods
for C	Clini	cal	Assessm	ent"	held at the I	Department of	of Pharmacy	Practice
The	Ox	ford	Colleg	e of	Pharmacy,	Bangalore,	Karnataka,	for the
acade	emio	ye	ar 2023-2	24.				

Course Coordinator

HOD

Principal

Dr Priyadharshini.M

Dept. of Pharmacy Practice The Oxford College of Pharmacy Dr. G Parthasarathy
Dept. of Pharmacy Practice
The Oxford College of Pharmacy





# PARTICIPATION CERTIFICATE

This	is	to	certify	that	MONIKA	N	of	B PHARM		has
unde	rgon	ne an	Course	on "	Design Of Q	uestionnaire	and	d Scoring	Met	hods
for C	lini	cal 1	Assessme	ent"	held at the I	Department (	of P	harmacy	Prac	tice,
The	Ox	ford	College	e of	Pharmacy,	Bangalore,	Ka	arnataka,	for	the
acade	emic	yea	r 2023-2	4.						

Course Coordinator

HOD

Principal

Dr Priyadharshini.M

Dept. of Pharmacy Practice The Oxford College of Pharmacy Dr. G Parthasarathy

Dept. of Pharmacy Practice The Oxford College of Pharmacy Dr. Padmaa M Paarakh

The Oxford College of Pharmacy





# **PARTICIPATION CERTIFICATE**

Course Coordinator

HOD

Principal

Dr Priyadharshini.M

Dept. of Pharmacy Practice
The Oxford College of Pharmacy

Dr. G Parthasarathy
Dept. of Pharmacy Practice
The Oxford College of Pharmacy



# The Oxford College of Pharmacy

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# COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY PRACTICE

(Course Code: ADISP 2023-24)

NOTICE

Date: 08-07-2024

To

Notice Board

To be read in the classrooms

Course Coordinators- Dr Jenisha k

To be filed

The Department of Pharmacy practice, The Oxford College of Pharmacy, Bangalore introduces 30 hours course on Application of drug information software in pharmacy practice for the academic year 2023-24, for the benefit of Pharm D, Pharm D PB students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 15th Jul 2024 and will be conducted after the college hours on Monday, Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is Pharm D, Pharm D PB students. Interested students can enroll with Dr Jenisha k, course coordinators on or before 12th Jul 2024.

Course Coordinator

Dr. Jenisha K

Hod

Dr. Parthasarathy G

Principal

Dr. Padmaa M Paarakh



#### **Organizing Committee**

Chairperson	Dr. Padmaa M
	Paarakh, Principal,
	TOCP, Bengaluru.
HOD	Dr. Parthasarathy G
	HOD, Department of
	Pharmacy Practice
	TOCP, Bangalore.
Course	Dr Jenisha K
Members	9741024432

#### For Further Information Contact Dr JENISHA K

Email: jenishaks98@gmail.com Course Coordinator Department of PharmacyPractice,TOCP, Bengaluru

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#### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree Pharm. D, Pharm. D (Post-Baccalaureate). Students from fifth Pharm. D and second, Pharm. D (Post-baccalaureate.

#### Course

On

"APPLICATION OF DRUG
INFORMATION
SOFTWARE IN
PHARMACY PRACTICE"



Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacy practice 1st Main rd., Hongasandra, Bengaluru, Karnataka -560 068

#### Important Dates

**Duration: 30 hours** 

Last date for registration: 12 Jul 2024 Date of commencement: 15th Jul 2024

Final Evaluation: 2024

#### REGISTRATION

Registration NIL

Fees It is a free course offered by
The Oxford College of
Pharmacy, Bengaluru-68

Contact person for registration Dr JENISHA K
Course Coordinator

#### **STRUCTURE**

- Course will be conducted for 30 hours after college hours.
- Every Monday, Fridays and Saturdays after college hours

#### COURSE DESCRIPTION

The Department of Pharmacy Practice, TOCP, Bangalore- 560068 introduces a . course APPLICATION OF DRUG IN INFORMATION SOFTWARE PRACTICE (course -PHARMACY code: ADISP 2023-24) teaches about the comprehensive drug information, interaction, dosing, monographs, toxicology which will there by help the improve the students to knowledge and helps in providing better therapy options in the clinical settings

# OBJECTIVES OF THE PROGRAM

- Understand the importance of drug information software in pharmacy practice.
- Identify and describe various types of drug information software. Recognize the features and functionality of popular drug information software.
- Understand the role of drug information software in medication safety and error prevention.
- Analyze and interpret drug monographs, interactions, and warnings.
- Use drug information software to identify potential drug interaction and contraindications.
- Navigate and utilize software features for pediatric, geriatric, and pregnancy/lactation considerations.

#### **FINAL ASSESSMENT**

clinical Final evaluation will be conducted at the end of the syllabus

#### OUTCOME

- Understanding of drug information software features and functionality
- Familiarity with various drug information software
- Knowledge of drug databases, interaction checking, and dosing calculators.
- Understanding of regulatory requirements and guidelines for drug information software.
- Awareness of emerging trends and technologies in drug information software.
- Proficiency in searching and retrieving drug information using software.

#### REGISTRATION PROCESS

Students can directly contact the course coordinator- Dr. Jenisha k CONTACT: 9741024432.

#### DURATION

30 hours beginning from 15th JUL 2024



# The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka Approved by Pharmacy Council of India, New Delhi)

# COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY PRACTICE

(Course Code: ADISP 2023-24)

S.No	Student Name	Signature
1	ARINDAMDEY	Am
2	BABISHA R	(0)-
3	BHAVYASHREE N	Bh~-
4	DHARUNBALA L	8 -
5	FARHANA AA	
6	HARSHITHA A	Ed.
7	LIKITHACHANDRASHEKAR	Limthoh
8	NEETHU TP	16
9	NISHANTH KK	Then
10	NIZAMUDDIN	X lu
11	NUNGSHICHILA A JAMIR	Nunn
12	PRADEEP S	(P)
13	RISHIKA GUPTA	link.
14	RUDRAMBIKA M	Ludronn Lik M
15	SARAVANAGIRI A	90-
16	SARAVANAN M	Sa-
17	SEEMA SL	SeemoSL
18	SHREYADATTA	
19	ADARSH KUMAR	A DA RIL
20	DEEPAK CHOUDHARY	Decor







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21	SAFREEN TA	Sal
22	GIRISH ADITHYA	G.
23	SOURABH SINGH	Sourch sigh

Course Coordinator

Dr. Jenisha K

Dr. Parthasarathy G

Dr. Padmaa M Paarakh





### The Oxford College of Pharmacy

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# COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY PRACTICE

(Course Code: ADISP 2023-24)

#### **SYLLABUS**

MODULES	TOPICS					
	Introduction to Pharmacy Drug Information Software					
	Overview of drug information software					
	Importance in pharmacy practice					
	Regulatory requirements and guidelines					
	Drug Information Software Features and Functionality					
	Drug databases and interaction checking					
MODULE - I	Dosing calculators and paediatric/geriatric considerations					
MODULE - I	Pregnancy and lactation information					
	Warning and alert systems					
	Critical Evaluation of Drug Information Software					
	Evaluating credibility and reliability					
	Analysing software limitations and biases					
	Comparing and contrasting different software					
	Lexi-Comp					
*	Micromedex					
	Application in Pharmacy Practice					
	Patient counselling and education					
	Medication therapy management					
	Collaborating with healthcare professionals					
	Advanced Topics in Pharmacy Drug Information Software					
	Emerging trends and technologies					
MODULE - II	Software updates and new features					
	Pharmacy informatics and automation					
	Artificial intelligence and machine learning applications					
	Mobile health (mHealth) and tele pharmacy integration					
	Emerging trends and technologies					
	Optimizing medication therapy for patients with multiple comorbidities					
	Managing drug interactions pharmacogenomics-based					
	Using software to support pharmacogenomics-based decision-making					
	Evaluating software for specific patient populations (e.g., paediatrics, geriatrics)					
	Analysing software limitations in rare or complex disease states					
10	1					

Course Coordinator

Dr. Parthasarathy G

Dr. Padmaa M Paarakh

Dr. Jenisha K

Oxford



# The Oxford College of Pharmacy

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# COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY PRACTICE

(Course Code: ADISP 2023-24)

#### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1.	15-07-2024	Monday	4.00 pm-5.30pm	Inaugural Module-1	Dr. Padmaa. M. Paarakh Dr. jenisha k
2.	19-07-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
3.	20-07-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
4.	22-07-2024	Monday	4.00pm-5.00pm	Module-1	Dr. jenisha k
5.	26-07-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
6.	27-07-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
. 7.	29-07-2024	Monday	4.00pm-5.00pm	Module-1	Dr. jenisha k
8.	02-08-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
9.	03-08-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
10.	05-08-2024	Monday	4.00pm-5.00pm	Module-1	Dr. jenisha k
11.	09-08-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
12.	10-08-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
13.	12-08-2024	Monday	4.00pm-5.00pm	Module-1	Dr. jenisha k
14.	16-08-2024	Friday	4.00pm-5.00pm	Module-1	Dr. jenisha k
15.	17-08-2024	Saturday	1.00pm-2.00pm	Module-1	Dr. jenisha k
16.	19-08-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
17.	23-08-2024	Friday	4.00pm-5.00pm	Module-2	Dr. jenisha k
18.	24-08-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
19.	26-08-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
20.	30-08-2024	Friday	4.00pm-5.00pm	Module-2	Dr. jenisha k





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31.	04-10-2024	Friday	4.00pm-5.00pm	Valedictory	Dr. jenisha k
30.	30-09-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
29.	28-09-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
28.	27-09-2024	Friday	4.00pm-5.00pm	Module-2	Dr. jenisha k
27.	23-09-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
26.	21-09-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
25.	20-09-2024	Friday	4.00pm-5.00pm	Module-2	Dr. jenisha k
24.	14-09-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k
23.	06-09-2024	Friday	4.00pm-5.00pm	Module-2	Dr. jenisha k
22.	02-09-2024	Monday	4.00pm-5.00pm	Module-2	Dr. jenisha k
21.	31-08-2024	Saturday	1.00pm-2.00pm	Module-2	Dr. jenisha k

Course Coordinator

Dr. Jenisha K

Dr. Parthasarathy G

Hod

Dr. Padmaa M Paarakh

Oxford COLLEGE OF PHARMACY

No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru – 560 068 ①: +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu:



## The Oxford College of Pharmacy

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# COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY PRACTICE

(Course Code: ADISP 2023-24)

#### COMPLETION REPORT

The Department of Pharmacy practice, The Oxford college of Pharmacy, Bangalore, conducted a course on Application of Drug Information Software in Pharmacy Practice (Course Code: ADISP 2023-24) for the academic year 2023-24. The course was intended to impart knowledge to the students about the management and analysis of prescription.

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh. The function was conducted at Room NO-505 and all the participants were introduced by Course Coordinators Dr Jenisha K. Total 23 students were present. The inaugural function has been summed up with the introductory lecture of course coordinator Dr. Jenisha K.

A total 30 hours course had been conducted on Monday, Friday and Saturday after college hours. Total 23 students were enrolled for this course.

The syllabus of the certificate course had been divided into two modules. After the completion of each modules an internal assessment was conducted, and overall test was conducted after the completion of the course. The results of module I, II and overall were analysed. Approximately 24% students scored grade A (marks percentage-100%) in all the tests followed by 40% who scored grade B (marks percentage-90%) and 36% scored grade C (marks percentage-80%).

The performance of the students in the tests were found excellent. About eighty eight percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 04-10-2024 and the participation certificate distributed to all 23 students by the Principal and Head of the Department Dr Parthasarathy G, and he had thanked Principal and management for providing best infrastructure for carrying out such courses. Behalf of department he promised to carry out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, had appreciated the enthusiasm of the students in this course and congratulate the Department of Pharmacy practice and the course coordinator Dr Jenisha K for the completion of course.

Course Coordinator

Dr. Jenisha K

Hod

Dr. Parthasarathy G

Dr. Padmaa M Paarakh

Oxford COLLIST OF PHARMACY

# विधा सर्वय शोभते

#### Children's Education Society (Regd.)

### The Oxford College of Pharmacy

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Accredited by NAAC and International Accreditation Organization (IAO)

#### COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY <u>PRACTICE</u>

(Course Code: ADISP 2023-24)

#### OUTCOME

The Department of Pharmacy practice, The Oxford College of Pharmacy, Bangalore- 560068, completed course Application of Drug Information Software in Pharmacy Practice (Course Code: ADISP 2023-24). Overall 23 students were registered and the course was conducted for 30 hours. This course has helped the students in comprehensive drug information, interaction, dosing, monographs, toxicology which will there by help the students to improve the clinical knowledge and helps in providing better therapy options in the clinical settings.

Outcomes: At the end of this course students were able to:

- Understanding of drug information software features and functionality.
- · Familiarity with various drug information software
- Knowledge of drug databases, interaction checking, and dosing calculators.
- Understanding of regulatory requirements and guidelines for drug information software.
- Awareness of emerging trends and technologies in drug information software.
- Proficiency in searching and retrieving drug information using software.

The students were satisfied and were keen to attend such programs in future.

Course Coordinator

Dr. Jenisha K

Hod

Dr. Parthasarathy G

Principal

Dr. Padmaa M Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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## COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY PRACTICE

(Course Code: ADISP 2023-24)

5.5	Name of the student	1	2	3	4	5	6	7	х	9	10	11	12	13	14	15
1	ARINDAMDEY	Ni	A	A	Das	Air	A	Air	lav	Kai	Tai	Ki	The	100	To	Kgi
2	BABISHA R	Beef	Pal	Bol	Bod	Bel	Bed	Real	Ra	Rol	RO	000	00	001	Day	20
3	BHAVYASHREE N	0	0	0	0	0	(8)	0	0	10	0	0	DA	10	0	10
4	DHARUNBALA L	Oh	Th	AR AR	Ø	gh	Ph	Ø	Ph	Ph	D	Ph	Ph	SK	2x	DK.
5	FARHANA AA	la	for	go	De	She	los	ha	- Ora	Jai	he	lan	an	12	0-	00
6	HARSHITHA A	HEN	H	H	142	H9	Ha	16	40	AD .	10	10	700	10	Ag	0
7	LIKITHA CHANDRASHEKAR	D	P	0	0	0	Q	D	(2)	0	D	19	0	0	D	0
8	NEETHU TP	Nee	_	Ne		Nee		_	_	100		Man	Man	6		Mag
9	NISHANTH KK	Nao	nbe	Nha	n	Ma	10/4	Nau	No	-Na	N/2	100	d/n	Ma	14.	Mha
10	NIZAMUDDIN	N	A	R	Q .	R	No.	0	Q	O2	Q	On	On	0	A CONTRACTOR	0
11	NUNGSHICHILA A JAMIR	A	N	2	N	100	100	M	00	18	000	80	Ø	NS.	Ø.	<b>B</b>
12	PRADEEP S	De	0	P	B	Ø)	Pa	0	_	(P)	P)	(0)	<b>2</b>	(P)	6	0
13	RISHIKA GUPTA	R	Ri	Ri	Ru	Ru	Ru	Bu	Bu	_	A	Ri	Pi	Ri	Ri	Ri
14	RUDRAMBIKA M	0	1	0	100	D	2	D	.00	RE .	200	D	A	0	0	6
15	SARAVANAGIRI A	Que	au	Su	Sun	Sou	Sur	Sun	Su	Sun	Cur	Sun	C	C	0	Su
16	SARAVANAN M	(Sa)	(Se	(Se	0	0	0	(Ja)	Sa	(Sa)	(0)	(3)	(Pa)	Sa	(2)	(2)
17	SEEMA SL	8.	de	do	do	& a	2	de	de	0	2	0	2	Ω	0	0
18	SHREYADATTA	20,	Du	Qa,	Ja	Ro	Lee	Sun	Par	Se (	Den	Qa.	ge.	Ø e	g.	02
19	ADARSH KUMAR	(Add	MAC)	A	A	AVE	AR	0	ALR.	AA	NO P		(2)	1	de	60
20	DEEPAK CHOUDHARY	De	De	De	De	De	De	Do	De	Do	200	De	De		Do	Qe.
21	SAFREEN TA	2	0	2	2	0	8	8	0	P	Ø	2	0	W.	8	0
22	GIRISH ADITHYA	Cal	6	8	0	0	0	8	8	6	6	8	6	0	6	3
23	SOURABH SINGH	0	da	Sa	0	0	de	da	0	-	da	da	da	of.	L	da
	SIGNATURE	ha	Pa	Page 1	f.B	ho	La	Ra	0	la	Pa	100	h.	la	he	he



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Approved by Pharmacy Council of India, New Delhi)

# COURSE ON APPLICATION OF DRUG INFORMATION SOFTWARE IN PHARMACY PRACTICE

(Course Code: ADISP 2023-24)

27	Name of the student	16	17	18	19	20	21	22	22	3.4	10			1.7	10	
1	ARINDAMDEY	A	No	A	Now	No	A	22	23	24 Ad	25 Ni	26 //au	M	28	10	10 No.
2	BABISHA R	See	Bal	Bel	Ral	Real	0	00	0.1	0.0	9.1	0.1	01	70	740	1
3	BHAVYASHREE N	0	0	0	B	B	(a)	Dead	Dog	B	(I)	10	79	10	10	0
4	DHARUNBALA L	Ph	Ph	Ø	Sh	Dh		Bh	BL	2	X	Bh	84	di	B	74
5	FARHANA AA	00	000	AW	Br	Jaw	Lear	1	1	four	Lar	Los	fan	4	L	1
6	HARSHITHA A	Hyl		HO)	H8	113	Hz	He	10	H8	ter.	1.80	16	w.	ula.	OF OF
7	LIKITHA CHANDRASHEKAR	D	Ó	0	0	Q	D	D	(D)	0	D	(B)	0	ry	0	0
8	NEETHU TP	Ne		No	Neu	lle	Ne	Me	lle	W	We	Le Le	lle	. Ue	10	11.
9	NISHANTH KK	Ahro	Na	har	A	Na	Man	Nar	Vicer	11/200	Wao	Λ.	14	M.	. 1/	NA
10	NIZAMUDDIN	N	M	N	Ne	N	No	10	M	19	10	1	Par	100	100	1 M
11	NUNGSHICHILA A JAMIR	M	M	N	D	10	N	D	W W		De	100	1	7	10	4
12	PRADEEP S	D	Pe	a	@	P	(2)	(P)	B	<b>6</b>	P	le le	Pe	Po	P	1
13	RISHIKA GUPTA	0	R	0	Ø	0	0	®	R	R	0	@	@	6	0	
14	RUDRAMBIKA M	Rie	<b>8</b> 0	lo	Bu	Qu	0	Bu	D.	Ri	li	Pi	Pi	0.	Ri	P.
15	SARAVANAGIRI A	lu	Su	Su	Su	Sur	Su	0	Sun	-	Sun	Sie	San	fre.	0	1
16	SARAVANAN M	(50)	30	Sa	Sal	800	(Ba)	Sa	0	A	50	Sa		0	Jen	~
17	SEEMA SL	do	Se	de	So	So	de	Le	de	8.	Se	Se	D.	0.	0	50
18	SHREYADATTA	80	Agr	SA	SA	ea	CA	Sa	S	D	•	SA	CA	m	مهد	4
19	ADARSH KUMAR	D	AND	War.	AD	AD	PO	DO	AD	An	A	Bas	100	DA.	44	Ser
20	DEEPAK CHOUDHARY	De	2	D	0	200	O	Do	Ob	00	En.	Po	De	A So	100	9
21	SAFREEN TA	2	2	P	8		D	0	0	0	2	0	0	0	0	0
22	GIRISH ADITHYA	a)	0	0	0	60	0	0	0	0	0	3	8	0	A	0
23	SOURABH SINGH	do	Sa	So	8	8	da	de	So	8	S	2	d	D	2	D
	SIGNATURE	frag	ha	lo	la	lo	L8	la	la	10	lo	19.	lo	Lo	10	6





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to	certify that <del>Mr.</del> /Ms	SEEMA	of 5 th pi	HRM D year
	gone an course on Appli			
Pharmacy	Practice held at Departi	ment of Pharmac	cy Practice,	The Oxford
College of	Pharmacy, Bengaluru, Kar	nataka for the acc	ademic year 2	2023-2024.

COURSE COORDINATOR

Dr. PARTHASARATHY G

**Dept of Pharmacy Practice** The Oxford College of Pharmacy

Dr. PADMAA M PAARAKH The Oxford College of Pharmacy

Dr. JENISHA K **Dept of Pharmacy Practice** The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms	HARSHITHA	of 5th pl	HARM D year
has undergone an course on Appli	ication of Drug	Information	Software in
Pharmacy Practice held at Departs	nient of Pharmac	y Practice,	The Oxford
College of Pharmacy, Bengaluru, Kar	nataka for the aca	ademic year 2	2023-2024.

COURSE COORDINATOR

HÖD

PRINCIPAL

Dr. JENISHA K
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

Dr. PARTHASARATHY G
Dept of Pharmacy Practice
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr. H. DH.	ARUN BALA of	5th PHARM D year
has undergone an course on Applicat	ion of Drug Informa	ation Software in
Pharmacy Practice held at Departmen	ıt of Pharmacy Prac	tice, The Oxford
College of Pharmacy, Bengaluru, Karnat	taka for the academic	year 2023-2024.

COURSE COORDINATOR

нор

P. Pad wo PRINCIPAL

Dr. JENISHA K
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

Dr. PARTHASARATHY G
Dept of Pharmacy Practice
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms	NISHANTH	of 5th Pl	HARM D year
has undergone an course on App	plication of Drug	Information	Software in
Pharmacy Practice held at Depart	rtment of Pharma	cy Practice,	The Oxford
College of Pharmacy, Bengaluru, K	arnataka for the ac	cademic year 2	2023-2024.

COURSE COORDINATOR

HOD

PRINCIPAL

Dr. JENISHA K
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

Dr. PARTHASARATHY G
Dept of Pharmacy Practice
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. <u>Shreyad Datta</u> of <u>5<sup>th</sup> Pharm P</u> year has undergone an course on Application of Drug Information Software in Pharmacy Practice held at Department of Pharmacy Practice, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

bo.

COURSE COORDINATOR

HÕD

P. (Paduo PRINCIPAL

Dr. JENISHA K
Dept of Pharmacy Practice
The Oxford College of
Pharmacy

Dr. PARTHASARATHY G Dept of Pharmacy Practice The Oxford College of Pharmacy



#### The Oxford College of Pharmacy

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#### COURSE ON MEDICAL WRITING AND COMMUNICATIONS

(Course Code: MWC 2023-24)

Notice

Date: 30-12-2023

To

Notice Board

To be read in the class rooms

Dr. Bindu B N

Course Coordinator

To be filed

The Oxford College of Pharmacy, Bengaluru introduces a 30 hours course on Medical Writing and Communications for the academic year 2023-24, for the benefit of VII Sem B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 5<sup>th</sup> January 2024 and will be conducted every Friday and Saturday after regular classes. The eligibility criteria include students pursuing VII Sem B.Pharm. Interested students can enroll with Dr. Bindu B N, course coordinator on or before 4<sup>th</sup> January 2024.

Bindu

Course Co-coordinator

Dr. Bindu B N

Mu'varlave HOD

Dr. Noopur Srivastava

Principal

Dr. Padmaa M Paarakh

#### **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD	Dr Noopur Srivastava Department of Pharmacology TOCP, Bengaluru.
Program Coordinator	Dr. Bindu B N Department of Pharmacology TOCP, Bengaluru.

#### For Further Information Contact

Dr. Bindu B N
Assistant Professor
Department of Pharmacology
TOCP, Bengaluru.

Email: bindubn123456@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Pharm D, Pharm D Post Baccalaureate and PhD Programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug control Board, Karnataka respectively, approved by A.I.C.T.E and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

#### **ELIGIBILITY CRITERIA**

Students Pursuing VII Sem B Pharm.

# Course On "Medical Writing and Communications"



# Organized by THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacology 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

#### **Important Dates**

**Duration: 30 hours** 

Last date for registration:4 Jan 2024 Date of commencement: 5 Jan 2024 Planned Examination: After the

completion of 30hrs of classes

#### REGISTRATION

person for	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68						
Contact person for registartion	Dr. Bindu B N 7760021582						

#### **STRUCTURE**

- Course will be conducted for 30 hours.
- Every Friday and Saturday after the college hours.

#### **COURSE DESCRIPTION**

The Department of Pharmacology, TOCP, Bangalore- 560068 introduces a thirty hours course on Medical writing and Communications (Course Code: MWC 2023-24). This course develop the skills needed to create clear, accurate, and regulatory-compliant medical documents.

# OBJECTIVES OF PROGRAM

- Understand the principles and ethical considerations in medical writing.
- •Write clear, concise, and accurate scientific content.
- •Develop various types of medical documents, including clinical trial reports, regulatory submissions, and publications.
- •Understand the role of medical communications in the pharmaceutical and healthcare industries.
- •Apply writing and editing skills to promotional materials, medical education, and healthcare marketing.
- •Navigate the regulatory landscape for medical documentation (FDA, EMA, ICH guidelines).

#### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus by test.

#### **DURATION**

Thirty hours beginning from 5<sup>th</sup> January 2024.

#### **OUTCOME**

- Mastery of Medical Writing Formats
- Ability to Communicate Complex Medical Information
- Understanding of Regulatory and Ethical Guidelines
- Expertise in Medical Literature and Research
- Effective Use of Medical Writing Tools

#### **REGISTRATION PROCESS**

Directly contact Course Co-Ordinator and register.



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# COURSE ON MEDICAL WRITING AND COMMUNICATIONS (Course Code: MWC 2023-24)

#### List of students

Sl. No	Name of the Students	Signature
1.	BHAVYA SHREE	Bhangashree
2.	DHANASEKHAR M K	Dhanasekhar Hemant Zunan
3.	HEMANTH KUMAR E	Hemanttuna
4.	NISHA S	Nisha
5.	PRATIK JAIN	Pratik Jain
6.	SRI VIGNESH	En Viguel
7.	GOKUL RAJ. M	Gokul Raij Halaswamy
8.	HALASWAMY.D. B	Halaswamy
9.	HARIPRASAD	Varipraced
10.	INDUSHREE.G. L	Industrie
11.	INITHA.V	Tuesta
12.	JEEVAN.U.H	Tewan
13.	KHALEEL.E	Khahul
14.	KISHAN K	Kirkan Likitha Gowala Pana Kuman
15.	LIKITHA GOWDA	Likitha Gow do
16.	PAVAN KUMAR B	Pavar Kinar





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	_	
17.	RAJESHWARI.B	Rajeshwari
18.	SARANYA.R	Duranja
19.	SOMASHEKAR.G	Somoshekar. G
20.	SUJAN KUMAR	Bujan Kuman
21.	SWETHA P	Bwetha.P.
22.	VIGNESH.C	Vignesh.c.
23.	AARTHI S	Lasthi
24.	AIMEN BASHIR	Almen Bashin
25.	AKILA C	Akila
26.	ANUSHA R S	Andres
27.	ANUSHA T	Durcha
28.	ANWAR MULLA	Anna Milla
29.	ARUN BIRADAR	Anun Biradas
30.	ARUN C	Arwn

Birdu

Course Co-coordinator

Dr. Bindu B N

Munstava

Dr. Noopur Srivastava

P (Pad wo

Dr. Padmaa M Paarakh





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# COURSE ON MEDICAL WRITING AND COMMUNICATIONS (Course Code: MWC 2023-24) Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY			
1	5/01/2024	Friday	4.30-5.30 pm	Inaugural Module-1	Dr. Bindu B N			
2	6/01/2024	Saturday	1.30-2.30 pm	Module-1	Dr. Bindu B N			
3	12/04/2024	Friday	4.30-5.30 pm	Module-1	Dr. Bindu B N			
4	13/01/2024	Saturday	1.30-2.30 pm	Module-1	Dr. Bindu B N			
5	19/01/2024	Friday	4.30-5.30 pm	Module-1	Dr. Bindu B N			
6 6	20/01/2024	Saturday	1.30-2.30 pm	Module-1	Dr. Bindu B N			
to la	26/01/2024	Friday	4.30-5.30 pm	Module-1	Dr. Bindu B N			
8	27/01/2024	Saturday	1.30-2.30 pm	Module-1	Dr. Bindu B N			
9	2/02/2024	Friday	4.30-5.30 pm	Module-1	Dr. Bindu B N			
10	3/02/2024	Saturday	1.30-2.30 pm	Module-1	Dr. Bindu B N			
11	9/02/2024	Friday	4.30-5.30 pm	Module-2	Dr. Bindu B N			
12	10/02/2024	Saturday	1.30-2.30 pm	Module-2	Dr. Bindu B N			
13	16/02/2024	Friday	4.30-5.30 pm	Module-2	Dr. Bindu B N			
14	17/02/2024	Saturday	1.30-2.30 pm	Module-2	Dr. Bindu B N			
15	1/03/2024	Friday	4.30-5.30 pm	Module-2	Dr. Bindu B N			
16	2/03/2024	Saturday	1.30-2.30 pm	Module-2	Dr. Bindu B N			
17	9/03/2024	Saturday	1.30-2.30 pm	Module-2	Dr. Bindu B N			
18	9/03/2024	Saturday	2.30-3.30 pm	Module-2	Dr. Bindu B N			
19	15/03/2024	Friday	4.30-5.30 pm	Module-2	Dr. Bindu B N			
20	16/03/2024	Saturday	1.30-2.30 pm	Module-2	Dr. Bindu B N			



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21	22/03/2024	Friday	4.30-5.30 pm	Module-3	Dr. Bindu B N
22	23/03/2024	Saturday	1.30-2.30 pm	Module-3	Dr. Bindu B N
23	30/03/2024	Saturday	1.30-2.30 pm	Module-3	Dr. Bindu B N
24	30/03/2024	Saturday	2:30- 3:30 pm	Module-3	Dr. Bindu B N
25	5/04/2024	Friday	4.30-5.30 pm	Module-3	Dr. Bindu B N
26	6/04/2024	Saturday	1.30-2.30 pm	Module-3	Dr. Bindu B N
27	12/04/2024	Friday	4.30-5.30 pm	Module 3	Dr. Bindu B N
28	13/04/2024	Saturday	1.30-2.30 pm	Module 3	Dr. Bindu B N
29	19/04/2024	Friday 4.30-5.30 pm Module		Module 3	Dr. Bindu B N
30	20/04/2024	Saturday	1.30-2.30 pm	Module 3	Dr. Bindu B N
31	20/04/2024	Saturday	2:30- 3:30 pm	Valedictory	Dr. Noopur Srivastava

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Course Co-coordinator

Dr. Bindu B N

Newastawa

HOD

Dr. Noopur Srivastava

Principal

Dr. Padmaa M Paarakh





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#### COURSE ON MEDICAL WRITING AND COMMUNICATIONS

(Course Code: MWC 2023-24)

#### Course completion Report

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted a course on Medical writing and communications (Course Code: MWC 2023-34) for the academic year 2023-24. The course was intended to impart knowledge to the students about the basics of Medical Writing develop, to create clear, accurate, and regulatory-compliant medical documents. This course had given enough knowledge to develop various types of medical documents, including clinical trial reports, regulatory submissions, and publications.

The course was started with an inaugural function by welcoming the Principal Dr. Padmaa M Paarakh and Dr. Noopur Srivastava, HOD, Department of Pharmacology. The function was conducted at Room no-507 and all the participants were introduced by Dr. Bindu B N, Course Coordinator. Our Principal had emphasized on the importance of doing such courses in academics as well as in future also. The inaugural function has been summed up with the introductory lecture by the course coordinator Dr. Bindu B N.

A 30 hours course had been conducted after the college hours on Friday and Saturday. 30 students were enrolled directly by contacting the class coordinator. The syllabus of the course had been divided into three modules. After the completion of each module an internal assessment was conducted and overall test was conducted after the completion of the course.

Approximately 50% students scored grade A (marks percentage-95-100%) in all the tests followed by 26.6% who scored grade B (marks percentage-90-94%) and 16.6% scored grade C (marks percentage-85-90%) and 6.6% scored grade D (marks percentage-80-94%). The performance of the students in the tests were found to be excellent. About fifty percent of the students had scored more than 95% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 20/04/2024 in the class room and the course completion certificates are distributed to 30 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr. Noopur Srivastava. Dr. Noopur thanked Principal Madam and management for providing



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best infrastructure for carrying out such courses. On behalf of department, she promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students in this course and also thanked the Department of Pharmacology and the course coordinator, Dr. Bindu B N for successful completion of the course.

Bindu

COURSE COORDINATOR

Dr. Bindu B N

Naivactors

HOD

Dr Noopur Srivastava

Dr I

Dr Padmaa M. Paarakh





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# COURSE ON MEDICAL WRITING AND COMMUNICATIONS (Course Code: MWC 2023-24) Outcome Report

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore- 560068, completed course on Medical Writing and communications (Course Code: MWC 2023-24). 30 students were registered and the course was conducted for 30 hours. This course has helped the students to develop the skills needed to create clear, accurate, and regulatory-compliant medical documents

Outcome: At the end of this course students were able to:

- · Ability to Communicate Complex Medical Information
- Understanding of Regulatory and Ethical Guidelines
- Expertise in Medical Literature and Research
- · Effective Use of Medical Writing Tools

The students were satisfied and were keen to attend such programs in future.

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COURSE COORDINATOR

Dr. Bindu B N

Mirastava

Dr Noopur Srivastava

PRINCIPAL

Dr Padmaa M Paarakh



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#### COURSE ON MEDICAL WRITING AND COMMUNICATIONS

(Course Code: MWC 2023-24)

#### Syllabus

MODULE	TOPICS						
	Introduction						
	Existence of Medical writing						
	Types of Medical writing- Medical Journalism						
	Educational Medical writing						
MODULE -I	Medical Marketing of Healthcare products						
MODELE -I	Publications						
	Research Documents						
	Regulatory Medical writing						
	Understanding clinical trials and study designs						
	Data Presentation and Statistical writing						
+	Medical Communications						
	Structure of Medical Documents						
	Clinical Trial Documents						
	Pharmacovigilance writing						
	Medical Writing tools and softwares						
MODULE -II	Ethics in Medical writing						
	Requirements for Medical Writer						
	Skills required for Medical writing						
	Need of Medical writing						
	Different organizations of Medical writing						
	Duties or role of Medical writers						
	Scope of Medical writing						
	Where do medical writers work						
	Career Prospects for Medical writers						
	Literature review						
	Regulatory affairs and compliance						
MODULE -III	Clinical trial report writing						
MODULE -III	Creating patient information leaflets						
	Adverse Event Reporting						
	Pharmacovigilance Report writing						
	Conclusion						

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Munchang

Course Co-coordinator

HOD

Principal

Dr. Bindu B N

Dr. Noopur Srivastava

Dr. Padmaa M Paarakh





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#### COURSE ON MEDICAL WRITING AND COMMUNICATIONS

(Course Code: MWC 2023-24) Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	51	61	124	13/1	19/1	20/1	26/1	27/1	22	32	912	102	166	17/2	1/3
1	BHAVYA SHREE	6	8	8	8	8	8,	8	8	8	8	8	B	8	8	B
2	DHANASEKHAR M K	13	D	D	P	D	D	D	D.	P	D	D	D.	D	D.	D
3	HEMANTH KUMAR E	UK	Hk	HR	H	HK	HK	HK	H	HE	HK	HK	HK	HK	110	HE
4	NISHA S	T	A	1	N	4	N	N	#	N	1	7	A	A	N	N
5	PRATIK JAIN	PI	PT	P	B	PJ	PT	PJ	PS	RT	P5	PJ	PS	PT	PJ	PJ
6	SRI VIGNESH	5-	5	S	2	2	2	2~	2	San	2	5	S	2	2	2
7	GOKUL RAJ . M	Gu	G.	Cu	G.	Cin	Ga	G.	G.	GL	a	au	a	a	a	C.
8	HALASWAMY.D.B	LB	43	US	418	48	6B	HS	48	+18	HB	HB	413	#8	#13	TP.
9	HARIPRASAD	the	K.	14	H	the	He	th	H	th	th	the	#	the	1	H
10	INDUSHREE.G.L	h	Tu	Z	T	T	Tu	T	T	To	T	Z	不	T	T	T
11	INITHA.V	I	I	I	工	I	I	I	I	I	工	I	I	X	4	1
12	JEEVAN.U.H	Ta	Ju	Ja	Ju	Jos	Jee	Jea	Too	Ja	Jee	Tee	Jea	300	Ja	Je
13	KHALEEL.E	10	1	P	P	0	1	1	@	P	0	R	8	0	Ø	E
14	KISHAN K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
15	LIKITHA GOWDA	14	19	49	LG	19	49	49	19	49	4	19	19	4	4	4
16	PAVAN KUMAR B	De	PK	Ph	PA	De	Pk	Ph	PR	Pr	PK	PL'	Pk	PR	PR	Pk
17	RAJESHWARI.B	Pa	Re	Par	16	Bu	Res	Ren	Par	Da	Per	Pan	Pan	Ru	Re	B
18	SARANYA.R	Q.	Be	Qa	8	Q.	8	Qu.	8_	Q.	8-	&	2	Bu	Se	B.
19	SOMASHEKAR.G	Son	Son	Con	Sa	300	Con	300	5-	Som	Sor	Som	Som	Son	Som	Sa
20	SUJAN KUMAR	SK	86	ex		8	Sk	\$	Sk	88	Sk	Sk	8k	Sk	8k	8
21	SWETHA P	Sul	Buch	Both	Sus	Sweth	Sak	Sue	Code	Swel	Sunt	Sue	Sue	Sue	Sue	Sus
22	VIGNESH.C	20	72	200	20	2	2	2	2	2	2	2	u	V	79-	792
23	AARTHI S	4	0	(X	a	S	$\boldsymbol{\alpha}$	A	SA	0	Ø	X	M (	DA	Z	18
24	AIMEN BASHIR	AR	AA	AB	AB	AD	AB.	dis.	40	40	OAB	AB	OAB	AB	OND	94
25	AKILA C	de	ON	91	Al	SIZ	OPL	AC.	AC	AC	ac	SAL	Ste	AL	Ac	140
26	ANUSHA R S	A	Am	Am	An	Anu	Anu	Anu	An	Ano	Am	Am	Aw	An	AN	AN
27	ANUSHA T	M	AT	AT	AT	AT	AT	AT	AT	M	AT	AT	AT	AT	AT	A7
28	ANWAR MULLA	M	M	MM	M.	MM	-AM	MM	AM	AM	MA	MM	MK	M	4M	AM
29	ARUN BIRADAR	B	AB	183	AB	AB	AB	AB	R	40	70	A0	AB	AB	P	AB
30	ARUN C		from	Pos	Kur	from	Apwr	Lown	peron	Mun	stun	Awn	Dun	ten	Awn	Au
	SIGNATURE	3	8	8	3	B	B	8	8	8	B	B	8	3	<b>B</b>	\$



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#### COURSE ON MEDICAL WRITING AND COMMUNICATIONS

(Course Code: MWC 2023-24) Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	51	611	124	13/1	19/1	20/1		27/1	22	32	912	102	-	17/2	1/3
1	BHAVYA SHREE	64	8	8	8	8	0,	8	B	8	8	8	B	B	8	B
2	DHANASEKHAR M K	13	D	D	R	D	D	D	D.	P	D	D	D	D	D	D
3	HEMANTH KUMAR E	UK	Hk	HR	HŁ	HK	HK	HK	H	HE	HK	HR	HK	HK	11	14
4	NISHA S	TO	A	1	N	A	N	N	#	N	1	M	A	A	A	N
5	PRATIK JAIN	PJ	PT	P	B	PJ	PT	PT	PS	RT	PJ	PJ	PS	PT	PJ	PJ
6	SRI VIGNESH	5_	5	5	2	5	S	Sa	2	Sa	S	S	S	2	2	2
7	GOKUL RAJ . M	an	G.	Cu	C.	Cin	Cin	Gu	G.	Gi	a	au	a	a	a_	a.
8	HALASWAMY.D.B	LB	43	US	418	48	6B	HS	48	+13	HB	HS	413	#8	#18	113
9	HARIPRASAD	the	K.	Un	H	the	H	th	H	th	the	the	the	the	#	H
10	INDUSHREE.G.L	h	Tu	Z	T	T	Tu	T	T	T	I	T	T	不	T	T
11	INITHA.V	I	I	I	工	I	I	I	I	I	I	A	I	X	A	1
12	JEEVAN.U.H	Ta	Ju	Ja	Jue	Joe	Jee	Jea	Too	Jan	Jee	Tee	Jea	300	Ja	Jes
13	KHALEEL.E	10	1	P	P	0	@	1	1	0	0	(2)	8	Ø	Ø.	B
14	KISHAN K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
15	LIKITHA GOWDA	14	19	49	LG	19	49	49	19	4	4	19	19	4	4	4
16	PAVAN KUMAR B	De	PK	Ph	14	De	Pk	DE	PE	Pr	PK	PL	PR	PE	PE	PR
17	RAJESHWARI.B	Pa	Rem	Da	Re	Bu	Par	Ren	Bu	Par	Per	Par	Pan	Ru	R	B
18	SARANYA.R	Oc.	8e	Qa	2	Q.	8	Qu	2	Q.	Q-	Q.	2	Bu	Be.	8
19	SOMASHEKAR.G	Son	Son	Con	Sa	300	Con	Son	Sa	goe !	Sor	Som	Som	Son	Som	Som
20	SUJAN KUMAR	OR	86	ex	SR	8	Sk	8	Sk	Sk	Sk	Sk	8k	Sk	8k	86
21	SWETHA P	80	Suet			Sooeth	Sak	Sure	Cush	Swer		Bue		Sue	Sue	
22	VIGNESH.C	20	72	200	20	2	21	V	21	29	20	22	re	2	79-	782
23	AARTHI S	4	0	(X)	D.	Ø	Ø	A	K	A	M	X	M (	A	N	18
24	AIMEN BASHIR	AR	AA	AB	AB	ADD	48.	dis.	40	40.	AB.	AB	de	AB	do	SAR
25	AKILA C	W	ON	91	M	91	DAL	de.	OAC	de	or	941	of	041	str	AL
26	ANUSHA R S	Au	Am	Am	An	Anu	Anu	Anu	An	A	Am	Am	Aw	An	ANU	Anu
27	ANUSHA T	M	AT	AT	AT	AT	AT	AT	AT	17	AT	AT	AT	AT	AT	AT
28	ANWAR MULLA	M	MM	M	M.	MA	-AM	MM	MA	MA	MA	AM	MM	AM	MM	AM
29	ARUN BIRADAR	Q,	4MB	18	AB	AB	10	AB	RO	AD	70	00	AB	AB	00	AB
30	ARUN C	Mar	man	Low	Kur				peror		drun	Awn	tur	Aun	Aun	Aw
	SIGNATURE	3	8	8	3		1	8	8	8	B	B	8	3	<b>B</b>	\$





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#### COURSE ON MEDICAL WRITING AND COMMUNICATIONS

(Course Code: MWC 2023-24)
Attendance Statement

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
10	Date of the Class	₽B	gla	98	<b>U</b>	163	2013	23/3	3 <del>a</del> β	30/3		6 4		134	194	-
1	BHAVYA SHREE	B	8	B	B	8	Bo	8	8	8	8	8	8	8	8	8
2	DHANASEKHAR M K	1	D	D	12	12	727	Du 1	D-	P-1	Du!	D	P	D	D	D
3	HEMANTH KUMAR E	Uk	HE	HE	Hk	HA	HR	HR	HK	HK	HK	HK	HK	1	HE	世
4	NISHA S	40	4	4	A	A	40	4	A	4	A	4	₩.	TH	A	M
5	PRATIK JAIN	PS	PT	PT	PT	PT	PJ	PT	PJ	PJ	PT	PJ	PJ	PJ	PJ	PT
6	SRI VIGNESH	5	2	8	2	8	8	S	S	S	S	S.	5	S	يح	Sa
7	GOKUL RAJ . M	C.	C	6	C	C.	Cu	G.	Cu	an	9	Com	a	6	2	6
8	HALASWAMY.D.B	IB	HR	118	118	448	418	CB8	48	48	HS	#8	448	4R	HS	#13
9	HARIPRASAD	IL	ii.	ih	H	ih	the	He	4	Hi.	The	the	th	HL	H	He
10	INDUSHREE.G.L	元	た	た	The	L	The	た	て	て	T	Ti	九	T	ア	7-
11	INITHA.V	I	1	I	1	I	I	X	I	I	I	I	I	I	I	I
12	JEEVAN.U.H	100	See	Tee	Tee	Tea	Jee	See	Too	Jee	Tee	Tee	Tee	See	Tee	Jes
13	KHALEEL.E	D	Ø	0	0	(2)	@	P	1	0	8	P	P	R	0	Ø
14	KISHAN K	E	V	V	K	K	K	K	K	K	K	K	K	K	K	K
15	LIKITHA GOWDA	10	14	La	19	24	19	19	19	49	49	49	49	49	49	Ly
16	PAVAN KUMAR B	Ph	Pl	Pe	Pk	PE	PR	PR	Pk	PR	PR	PE	PR	PR	PR	PR
17	RAJESHWARI.B	0	0	P	2	Ru	2	R	Ren	P.	Ran	Par	Ba	Ren	Ren	Pa
18	SARANYA.R	0.	0	12.	Ra	Q.	Qa.	80	Q.	Qa.	Qa.	Da	R.	Q.	Sa	Sa
19	SOMASHEKAR.G	0	gom	Sor	Son	Son	Som	Som	Som	Som	Som	Son	Sor	Son	Sen	ST
20	SUJAN KUMAR	El	de	de	Se	Sk	86	ER	Sk	Sk	Ck	Sk	*	Sk	8k	Sk
21	SWETHA P	13.0	00	Sup	Suel	_	Que	Suath	Soh	Quali	Sworth	gue.	Suz	Suce	Sue	Sue
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No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru -560 068 ①: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;

Oxford

### **PARTICIPATION CERTIFICATE**

This is to certify that BHAYYA SHREE of VII SEM B PHARM has undergone a Course on Medical Writing and Communications held at the Department of Pharmacology, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

Bindu

**Course Coordinator** 

Murastava. HOD

Principal

Dr. Bindu B N

Dept. of Pharmacology The Oxford College of Pharmacy Dr Noopur Srivastava

Dept. of Pharmacology
The Oxford College of Pharmacy

Dr. Padmaa M Paarakh



### **PARTICIPATION CERTIFICATE**

This is to certify that PRATHIK JAIN of VII SEM B PHARM has undergone a Course on Medical Writing and Communications held at the Department of Pharmacology, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

Bindu

**Course Coordinator** 

Milwactowa.

P. Padue Principal

Dr. Bindu B N

Dept. of Pharmacology
The Oxford College of Pharmacy

Dr Noopur Srivastava

Dept. of Pharmacology
The Oxford College of Pharmacy

Dr. Padmaa M Paarakh



### PARTICIPATION CERTIFICATE

Bindu

**Course Coordinator** 

Minstewa HOD

P Padwa Principal

Dr. Bindu B N

Dept. of Pharmacology
The Oxford College of Pharmacy

Dr Noopur Srivastava

Dept. of Pharmacology The Oxford College of Pharmacy Dr. Padmaa M Paarakh



### **PARTICIPATION CERTIFICATE**

This is to certify that .LIKITHA GOWDA. of MIL SEM B PHARM has undergone a Course on Medical Writing and Communications held at the Department of Pharmacology, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

Bindu

**Course Coordinator** 

Mairastava

HOD

P. Padwa

Principal

Dr. Bindu B N

Dept. of Pharmacology The Oxford College of Pharmacy Dr Noopur Srivastava

Dept. of Pharmacology
The Oxford College of Pharmacy



Oxford

### THE OXFORD COLLEGE OF PHARMACY 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### **PARTICIPATION CERTIFICATE**

This is to certify that ... JEEVAN: U.H. of ... Of ... SEM B PHARM has undergone a Course on Medical Writing and Communications held at the Department of Pharmacology, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

Birdu

**Course Coordinator** 

Miliactane. HOD

Principal

Dr. Bindu B N

Dept. of Pharmacology The Oxford College of Pharmacy Dr Noopur Srivastava

Dept. of Pharmacology
The Oxford College of Pharmacy

Dr. Padmaa M Paarakh



### The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON DIGITAL HEALTH AND PHARMACY INFORMATICS

(Course Code: DHPI 2023-24)

#### Notice

Date: 08/07/2024

To

Notice Board

To be read in the class rooms

Course Coordinators- Mrs. Pallavi N.

To be filed

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on "Digital Health and Pharmacy Informatics" for the academic year 2023-24, for the benefit of B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 15th July 2024 and will be conducted every Monday, Tuesday, Wednesday and Thursday after class hours. The eligibility criteria include students pursuing IV SEM B. Pharm. Interested students can enroll with Mrs. Pallavi N, course coordinator on or before 13th July 2024.

Course Cocordinator

Mrs. Pallavi N.

Mulastava.

Dr. Noopur Srivastava

Principal

Dr. Padmaa M Paarakh



# Chairperson Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore. HOD Dr. Noopur Srivastava Department of Pharmacology TOCP, Bangalore. Program Mrs. Pallavi N Coordinator Department of Pharmacology TOCP, Bangalore.

### **For Further Information Contact**

### Mrs. Pallavi N.

Assistant Professor
Department of Pharmacology
TOCP, Bangalore
Email
pallavinityananda@gmail.com

### THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Pharm D, Pharm D Post Baccalaureate and PhD Programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug control Board, Karnataka respectively, approved by A.I.C.T.E and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy
Degree i.e., IV SEM
B. Pharm

# Course On "Digital Health and Pharmacy Informatics"



### Organized by

### THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacology, 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

### **Important Dates**

Duration: 30 hours

Last date for registration: 13 JUNE 2024

Date of commencement: 15 JULY 2024

Planned Examination: September 2024

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Mrs. Pallavi N. 7022206760

### **STRUCTURE**

- Course will be conducted for 30 hours.
- Every Monday, Wednesday and Thursday after the college hours.

### **COURSE DESCRIPTION**

The Department of Pharmacology Bangalore-560068 TOCP introduces a thirty hours certificate course on Digital Health and Informatics (Course Pharmacy Code: DHPI 2023-24). This course offers the basic knowledge about DURATION the enhance patient safety and patients with tools and resources for better self-management of their medications and health.

### **OBJECTIVES OF PROGRAM**

- \* The enhance the efficiency of pharmacy operations by automating processes, managing inventory, and optimizing staff productivity, which ultimately reduce costs and wait times.
- \* This course help to minimize medication errors and adverse drug reactions through the use of technology and data analytics, ensuring safer medication management.
- Tuesday, . This course provide communication and data exchange among healthcare providers, pharmacists, and patients, promoting coordinated care and informed decisionmaking.

### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

Thirty hours beginning from 15TH JULY 2024.

### OUTCOME

At the end of this course students were able to:

- > To understand automation and digital tools streamline pharmacy operations, reducing errors and wait times while improving workflow efficiency.
- > To understand advanced analytics which help to identify trends in medication use and patient adherence, allowing for targeted interventions and improved health management strategies.
- > To understand to access the patient data to make informed decisions, leading to personalized medication therapy and better health outcomes.
- > To Understand digital platforms facilitate better collaboration between healthcare providers, pharmacists, and patients, ensuring cohesive care and improved medication management.

### **REGISTRATION PROCESS**

Directly contact Course Co-Ordinator and register.



### The Oxford College of Pharmacy

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#### COURSE ON DIGITAL HEALTH AND PHARMACY INFORMATICS

(Course Code: DHPI 2023-24)

#### **Outcome Report**

The Department of Pharmacology, The Oxford College of Pharmacy, Bengaluru - 560068, completed course on Digital Health and Pharmacy Informatics (Course Code: DHPI 2023-24). 15 students were registered and the course was conducted for 30 hours. The course was intended to impart knowledge to the efficiency of pharmacy operations by automating processes, managing inventory, optimizing staff productivity and ultimately reducing costs and wait times. Due to minimize medication errors and adverse drug reactions through the use of technology and data analysis this ensure safer medication management and data exchange among healthcare Providers and Patients. Promoting coordinated care and with tools and resources for better self-management of their medications and health, fostering adherence and engagement in their care plans.

Outcome: At the end of this course students were able to:

- Understand automation and digital tools streamline pharmacy operations, reducing errors and wait times while improving workflow efficiency.
- Understand advanced analytics which help to identify trends in medication use and patient adherence, allowing for targeted interventions and improved health management strategies.
- Understand to access the patient data to make informed decisions, leading to personalized medication therapy and better health outcomes.
- iv. Understand digital platforms to facilitate better collaboration between healthcare providers, pharmacists, and patients, ensuring cohesive care and improved medication management.

The students were satisfied and were keen to attend such programs in future.

COORDINATOR

Mrs. Pallavi N

Muivactava HOD

Dr Noopur Srivastava

Principal

Dr Padmaa M. Paarakh





### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;

Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON DIGITAL HEALTH AND PHARMACY INFORMATICS

(Course Code: DHPI 2023-24)

#### **Completion Report**

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted a course on Digital Health and Pharmacy Informatics (Course Code: DHPI 2023-24) for the Academic Year 2023-24. The course was intended to impart knowledge to the efficiency of pharmacy operations by automating processes, managing inventory, optimizing staff productivity and ultimately reducing costs and wait times. Due to minimize medication errors and adverse drug reactions through the use of technology and data analysis this ensure safer medication management and data exchange among healthcare Providers and Patients. Promoting coordinated care and with tools and resources for better self-management of their medications and health, fostering adherence and engagement in their care plans.

The course was started with a formal virtual inaugural function started by welcoming the Principal Dr. M. Padmaa Paarakh. The function was conducted offline and all the participants were introduced by Mrs. Pallavi N, Course Coordinator. The principal had emphasized on the importance of doing such courses in academics as well as in future also. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs Pallavi N.

A total 30 hours course had been conducted after the college hours on Monday, Tuesday and Wednesday. 15 students were attended the course and benefited. The syllabus of the course had been divided into two (II) modules. After the completion of each module an internal assessment was conducted and overall test was conducted after the completion of the course. After the completion of each module the tests were conducted through Microsoft Forms and the tests were assigned in the Assignment section. Approximately 72.61 % students scored grade A (marks percentage-95-100%) in all the tests followed by 8.86 % who scored grade B (marks percentage-90-94%) and % scored grade C 9.87 % (marks percentage-85-90 %) and 9.0 % scored grade D (marks percentage-75-84 %). The performance of the students in the tests were found to be excellent. About 81.47% of the students had scored more than 95% marks in all the tests. Students had shown keen





### The Oxford College of Pharmacy

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95% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 11/09/2024and the course participation certificates were distributed to all 15 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr. Noopur Srivastava. Dr. Noopur thanked Principal Madam and management for providing best infrastructure carrying out such courses. On behalf of department, she promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students in this course and also thanked the Department of Pharmacology, and the course coordinator Mrs. Pallavi N for successful completion of the course.

Course Co-coordinator

Mrs. Pallavi N.

Mivachaum

Dr Noopur Srivastava

PRINCIPAL

Dr Padmaa M. Paarakh





# THE OXFORD COLLEGE OF PHARMACY

**BENGALURU, INDIA** 

### Certificate of Participation

This is to certify that

NULLA UZMA PIYAZ

for attending a Course on "AI IN PHARMACY: ENHANCING STUDENT LEARNING" organized by Department of Pharmacology, The Oxford College of Pharmacy, Bengaluru.

Organizing Secretary

P. Padus Convenor

Programme Coordinator

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### Children's Education Society (Regd.)

### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;
Approved by Pharmacy Council of India, New Delhi)

### COURSE ON SYMPTOMS MANAGEMENT IN PALLIATIVE CARE (Course Code: SMPC 2023-24)

Notice

Date: 11/07/2024

To

**Notice Board** 

To be read in the class rooms

Course Coordinator: Mrs. A. Sravanthi

To be filed

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on Symptom Management in Palliative care for the Academic Year 2023-24, for the benefit of M Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 19<sup>th</sup> July, 2024 and will be conducted every Friday and Saturday after class hours. The eligibility criteria include students pursuing Pharmacy degree that is M. Pharm. Interested students can enroll with, Mrs. A. Sravanthi course coordinator on or before 16<sup>th</sup> July 2024.

Course Co-coordinator

Mrs. A. Sravanthi

Khiva stave HOD

Dr. Noopur Srivastava

Dr. Padmaa M Paarakh

Oxford

### **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr. Noopur Srivastava Department of Pharmacology TOCP, Bangalore.
Program Coordinator	Mrs. Sravanthi. A, Department of Pharmacology TOCP, Bangalore.

### For Further Information Contact

Mrs. Sravanthi. A, Assistant Professor Department of Pharmacology TOCP, Bangalore

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The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Pharm D. Pharm D Post Baccalaureate and PhD Programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug control Board. Karnataka respectively, approved by A.I.C.T.E and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in of terms sophisticated instruments. laboratories, lecture halls, etc.

### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., M. Pharm students.

# Course On ... "Symptom management in Palliative care"



## Organized by THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacology, 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

### **Important Dates**

**Duration: 30 hours** 

Last date for registration: 16/7/2024

Date of commencement: 19/7/2024 Planned Examination: After

completion of 30 hrs of classes

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68				
Contact person for registartion	Mrs. A.Sravanthi, 9490967912				

### **STRUCTURE**

- Course will be conducted for 30 hours.
- Every Friday and Saturday after the college hours.

### **COURSE DESCRIPTION**

The Department of Pharmacology TOCP Bangalore-560068 introduces a thirty hours certificate course on Symptom Management in Palliative Care(Course Code: SMPC 2023-2024). This course offers the basic knowledge about the Palliative care and Maintain the best quality of life possible for patients suffering from life threatening diseases.

### OBJECTIVES OF PROGRAM

- The relieve the suffering of patient and their families by the treatment of physical, psychological and spiritual symptoms experienced by patients.
- This course help the students to describe the role of palliative care in supporting patients and families living with serious illness.

### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

#### **DURATION**

Thirty hours beginning from 19th July 2024.

### **OUTCOME**

At the end of this course students were able to:

- 1) Maximise the quality of life.
- Provide relief from pain and other physical symptoms.
- Provide psychological and spiritual care.
- 4)Provide support to help the family during the patient illness and their subsequent bereavement.
- Help improve affecting physical, mental and emotional well-being of the patient.

### 6) REGISTRATION PROCESS

Directly contact Course Co-Ordinator and register.

# विचा सर्वय शोमते

#### Children's Education Society (Regd.)

### The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

### COURSE ON SYMPTOMS MANAGEMENT IN PALLIATIVE CARE (Course Code: SMPC 2023-24)

#### REGISTRATION LIST

S.NO	NAME OF THE STUDENT	STUDENT SIGNATURE
1	Aniket Bipin Ballard	
2	Balraj.M	Kas
3	Deepak.S	Duk
4	Dhushyanth.G	Duff.
5	Harish Kumar.K	#
6	Reeshita jhanak	Day.
7	Santhala Chauthanya Prasad	Sepe.
8	Sneha Suresh Salunkhe	<b>3</b> 8
9	Sourav Charan	ding
10	Thejaswini.B	T24 .
11	Priya Raj Kumar	20
12	Karthik M	Ka)
13	Rakesh A M	
14	Shivachavan HR	Sh.

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A.Sravanthi

Course Co-coordinators

Mu'vartoug HOD

Dr. Noopur Srivastava

Principal

Dr. Padma M Paarakh





### The Oxford College of Pharmacy

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### COURSE ON SYMPTOM MANAGEMENT IN PALLIATIVE CARE (Course Code: SMPC-2023-24)

### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY			
GLATO		-7-0-100 (N)		Inaugural	Dr. Padmaa, M. Paaraki			
1 19/07/2024 Friday		4:30PM-5:30PM	Module-1	A. Sravanthi				
2	20/07/2024	Saturday	2:00PM-3:00PM	Module-1	A.Sravanthi			
3	26/07/2024	Friday	4:30PM-5:30PM	Module-1	A. Sravanthi			
4	27/07/2024	Saturday	2:00PM-3:00PM	Module-1	A. Sravanthi			
5	2/08/2024	Friday	4:30PM-5:30PM	Module-1	A. Sravanthi			
6	3/08/2024	Saturday	2:00PM-3:00PM	Module-1	A. Sravanthi			
7	9/08/2024	Friday	4:30PM-5:30PM	Module-1	A. Sravanthi			
8	10/08/2024	Saturday	2:00PM-3:00PM	Module-1	A. Sravanthi			
9 16/08/2024 Fr		Friday	4:30PM-5:30PM	Module-1	A. Sravanthi			
		Saturday	2:00PM-3:00PM	Module-1	A. Sravanthi			
11	23/08/2024	Friday	4:30PM-5:30PM	Module-1	A. Sravanthi			
12	24/08/2024	Saturday	2:00PM-3:00PM	Module-2	A. Sravanthi			
13	30/08/2024	Friday	4:30PM-5:30PM	Module-2	A. Sravanthi			
14	31/08/2024	Saturday	2:00PM-3:00PM	Module-2	A. Sravanthi			
15	6/09/2024	Friday	4:30PM-5:30PM	Module-2	A.Sravanthi			
16	13/09/2024	Medule		Module-2	A. Sravanthi			
17	14/09/2024	Saturday	2:00PM-3:00PM	Module-2	A. Sravanthi			
18	20/09/2024	Friday	4:30PM-5:30PM	Module-2	A. Sravanthi			
19	21/09/2024	Saturday	2:00PM-3:00PM	Module-2	A. Sravanthi			
20	27/09/2024	Friday	4:30PM-5:30PM	Module-2	A. Sravanthi			
21	28/09/2024	Saturday	2:00PM-3:00PM	Module-2	A. Sravanthi			
22	4/10/2024	Friday	4:30PM-5:30PM	Module-3	A. Sravanthi			





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30	8/11/2024	Friday	5:30PM-6:00PM	Valedictory	Dr. Noopur Srivastava
			4:30PM-5:30PM	Module-3	A.Sravanthi
29	2/11/2024	Saturday	2:00PM-3:00PM	Module-3	A. Sravanthi
28	26/10/2024	Saturday	2:00PM-3:00PM	Module-3	A. Sravanthi
27	25/10/2024	Friday	4:30PM-5:30PM	Module-3	A. Sravanthi
26	19/10/2024	Saturday	2:00PM-3:00PM	Module-3	A. Sravanthi
25	18/10/2024	Friday	4:30PM-5:30PM	Module-3	A.Sravanthi
24	11/10/2024	Friday	4:30PM-5:30PM	Module-3	A. Sravanthi
23	5/10/2024	Saturday	2:00PM-3:00PM	Module-3	A. Sravanthi

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Course Co-coordinators

Mrs. A. Sravanti

HOD HOD

Dr. Noopur Srivastava

Principal

Dr. Padma M Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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### COURSE ON SYMPTOM MANAGEMENT IN PALLIATIVE CARE (Course Code: SMPC 2023-24) SYLLABUS

MODULES	TOPICS
	Principles of palliative care.
	History of palliative medicine.
	Practice of palliative care.
	Models of palliative care delivery.
	Speciality of palliative medicine.
,	Tools or instruments used in palliative medicine.
	Communication skills in palliative care.
MODULE-1	Care planning and ethical issues in palliative care.
	Nursing interventions for symptoms management in palliative care.
	Introduction to palliative care for older adults.
	Palliative care in paediatrics
	Psychological aspects in palliative care like anxiety disorder, guilt and regret etc.,
	Stress and burnout in palliative care
	Cultural aspects in palliative care like spiritual distress, ways to lead spiritual life.
	Metastatic bone pain management.
9	GI symptoms and management.
	Respiratory symptoms and management.
	Managing psychological issues in palliative care.
	Case scenario, bladder and bowel care.
	Skin care in colostomy





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	Palliative care in patients with non-malignant conditions.
MODULE-II	Palliative care in Oncological diseases.
	Importance of prognostication
	Palliative care in patients with non-malignant conditions.
	Sleep, body image and sexuality in palliative medicine.
	Procedure, interventional techniques in palliative medicine.
	Complementary and alternative medicine in palliative medicine.
	Managing common complications in palliative medicine setting.
	Palliative management in special conditions.
141	National health Mission (NHM) Government programmes for palliative care.
	Approach to end of life care.

CO-ORDINATORS

Mrs. A. Sravanthi

HOD HOD

Dr. Noopur Srivastava

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Dr. Padmaa M Parakh



### The Oxford College of Pharmacy

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### COURSE ON SYMPTOM MANAGEMENT IN PALLIATIVE CARE (Course Code: SMPC 2023-24)

#### Outcome Report

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore- 560068, completed a course on Symptom management in Palliative care (Course Code: SMPC 2023-24). 14 students were registered and the course was conducted for 30 hours. This course has helped the students to understand the role of palliative care to maximise the quality of patients suffering from life threatening diseases.

Outcome: At the end of this course students were able to:

- 1) Maximise the quality of life.
- Provide relief from pain and other physical symptoms.
- 3) Provide psychological and spiritual care.
- 4) Provide support to help the family during the patients illness and their subsequent bereavement.
- 5) Help improve affecting physical, mental and emotional well-being of the patient.

The students were satisfied and were keen to attend such programs in future.

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Course Co-coordinator

Mrs. A. Sravanthi

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Dr. Noopur Srivastava

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Dr. Padmaa M Paarakh

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### The Oxford College of Pharmacy

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#### COURSE ON SYMPTOM MANAGEMENT IN PALLIATIVE CARE

(Course Code: SMPC 2023-24)

#### **Completion Report**

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted a course on Symptom management in Palliative care (Course Code: SMPC 2023-24) for the academic year 2023-2024. The course was intended to impart knowledge to the students to give a better understanding of the patients symptoms, concerns and feelings and what matters to them to maximize the quality of life.

The course was started with a formal inaugural function started by Principal Dr. M. Padmaa Paarakh. The function was conducted and all the participants were introduced by Mrs. Sravanthi, Course Coordinator. Our principal had emphasized on the importance of doing such courses in academics as well as in future also. The inaugural function has been summed up with the introductory lecture of course coordinator by Mrs. Sravanthi.

A total 30 hours course had been conducted after the college hours on Friday and Saturday. About 14 students were attended the course and benefited. The syllabus of the course had been divided into three modules. After the completion of each module an internal assessment was conducted and overall test was conducted after the completion of the course. All the students were written the test. 72.61 % students scored grade A (marks percentage-95-100%) in all the tests followed by 8.86 % who scored grade B (marks percentage-90-94%) and 9.87 % scored grade C (marks percentage-85-90 %) and 9.0 % scored grade D (marks percentage-75-84%).

The performance of the students in the tests were found to be excellent. About 81.47% of the students had scored more than 95% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 08/11/2024 and the course participation certificates were distributed to all 14 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr. Noopur srivastava. Dr. Noopur srivastava thanked Principal Madam and management for providing best infrastructure for carrying out such courses. On behalf of Department, he promised to carry out such courses in future also.





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The guest of the valedictory function. Dr Padmaa Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students in this course and also thanked the Department of Pharmacology, and the course coordinator Mrs. Sravanthi for successful completion of the course.

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Course Co-coordinator

A. Sravanthi

HOD.

Dr. Noopur Srivastava

Principal

Dr. Padmaa M Paarakh





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#### COURSE ON SYMPTOMS MANAGEMENT IN PALLIATIVE CARE

(Course Code: SMPC 2023-24)

#### **Attendance Statement**

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	AH	sh.	96/1	Mr	0/8	3/8	918	1018	16/8	the	28/8	24/1	30/8	31/8	619
1	Aniket Bipin Ballard	0	0	0	0	1	1	1	0	•	8	•	0	•	1	8
2	Balraj.M	Rah	Ral	Bal	Bal	Bak	En	BA	sale	Bost	Bas	Red	RAL	res	Rad	Bas
3	Deepak.S	DELFT	DU	Deup	DILE	DUOP	Duple	Deepk	Toest	subk	pepp	bus	Deep	Dear	Arough	DOP
4	Dhushyanth.G	THE	DW	Deal	THE	Dul	BAR	DAN	DAM	Day	DAN	DAN	- Chie	DA	David	Dell
5	Harish Kumar.K	110	T	110	W	LA	A	44	140	AN	140	4	换	M	111	44
6	Reeshita jhanak	Da	Du	By	D	DR	Dat	Px	Ed	DI	DOW	PO	PU.	Ext	DE	THE S
7	Santhala Chauthanya Prasad	Sep	Sep	Sep	Sep	Set	Sep	Sep	Sach	A	Sup	Seb	Sep	Sep	ال	28ct
8	Sneha Suresh Salunkhe	De la	2	1	Q.	·	1	SQ.	1	€.	da.		60	A.	Q.	SA
9	Sourav Charan	du	de	de	A	den	de	du	du	du	du	du	du	da	du	d
10	Thejaswini.B	TE	Tel	Tal	TA	Tel	Tol	Tel	TO	TH	78	Del	TR	Tal	Tel	Tel
11	Priya Raj Kumar	DA	140	RUF	DAN	Boy	Prut	DW	Post	Part	SWE	DUG	PO	MA	74	PY
12	Karthik M	0	(6)	(6)	Char	Ka	6.	(20)	(Ka)	(Q)	PO'	Ka		60	10	80
13	Rakesh A M	@	D	1	(e)	0	10	0	10	P	1	6	(B)	0	e	6
14	Shivachavan HR	She	580	SM.	282	287	201	SRI	REL	8	Shel	SKI	CLI	SRI	3	20
	SIGNATURE	Q.	Gat Oak	8	1	9	8	8	8	8	8	ଲ୍ଲ	1	8	9	8



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### COURSE ON SYMPTOMS MANAGEMENT IN PALLIATIVE CARE (Course Code; SMPC 2023-24)

#### Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7	Я	9	10	11	12	13	14	15
	Date of the Class	19	1449	9019	249	219	21/9	4/10	5/10	11/10	n/b	nlo	Mm	21,10	dn	8111
1	Aniket Bipin Ballard	1	0	•	•	0	0		6	8		0	0	0	4	
2	Balraj.M	RAN	Cal	Bal	Bal	PA	Best	6	801	Cas	CAL	PAD	Pas	60	60)	Ers.
3	Deepak.S	MEX	Dook	nuk	Dens	Devot	Due	Dut	beart	Doubt	Dasp	DOM	rest	LONG	DON	but
4	Dhushyanth.G	244	Des	HOLD	T M	Thu	13/st	Dail	DW	DAM	DAH	البعلة	24	Dry	West	Dipa
5	Harish Kumar.K	THE .	MA	1	*	4	HO	HA	110	HO	44	1	-44	-40	ditt.	44
6	Reeshita jhanak	Du	Dh:	last	Dal'	171	Du	M	DI	PM	DI.	DIL.	Test	73	The	In
7	Santhala Chauthanya Prasad	SOP	Sep	Sep	Sep	Sep	80	Sep	Sep	Sep	Sep	Sep	Sep	SA	30	Sep
8	Sneha Suresh Salunkhe	♣.	8	8	S	28	\$	Se.	1	D.	De.	€.	SA	0	De	(2)
9 .	Sourav Charan	ol-	de	de	de	Su	of.	de	de	de	de	du	de	de.	de	du
10	Thejaswini.B	TEL	Tel	Tel	TO	Del	TE	Val	IN	781	Tel	I	Tel	Tel	Tel	DI
11	Priya Raj Kumar	PAY	M	PAGE	PA	DY	1	PXX	DON	PROF	MI	PKS	m	*	THE	PY
12	Karthik M	(19).	10	(60)	(ka)	(K)	Fa.	(Ka)	10	(FE)	(do)	(12)	To:	de	Ha	(Ka)
13	Rakesh A M	6	(D)	0	0	0	10	D	(B)	P	0	10	e	P	P	0
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	SIGNATURE	84	8	8	<b>Q</b>	2	G	8	9	8	Q	8	SA .	2	8	2



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THE OXFORD COLLEGE OF PHARMACY # 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### **PARTICIPATION CERTIFICATE**

8

**Course Coordinator** 

HOD

P(Pague Principal

A.Sravanthi

Dept. of Pharmacology The Oxford College of Pharmacy Dr. Noopur Srivastava
Dept. of Pharmacology
The Oxford College of Pharmacy





### **PARTICIPATION CERTIFICATE**

8

**Course Coordinator** 

HOD.

Principal

A.Sravanthi

Dept. of Pharmacology The Oxford College of Pharmacy Dr. Noopur Srivastava
Dept. of Pharmacology
The Oxford College of Pharmacy





### PARTICIPATION CERTIFICATE

8

**Course Coordinator** 

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Produce Principal

A.Sravanthi

Dept. of Pharmacology The Oxford College of Pharmacy Dr. Noopur Srivastava
Dept. of Pharmacology
The Oxford College of Pharmacy





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**Course Coordinator** 

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P (Padw. Principal

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Dept. of Pharmacology
The Oxford College of Pharmacy

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### **PARTICIPATION CERTIFICATE**

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**Course Coordinator** 

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Principal up

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### COURSE ON BIOMARKERS IN NEURODEGENERATIVE DISEASE (Course Code: BND 2023-24)

Notice

Date: 29/12/2023

To

Notice Board

To be read in the class rooms

Course Coordinator: Dr. G Venkata Karthik Kumar Reddy

To be filed

The Oxford College of Pharmacy, Bangalore introduces a 30 hours course on Biomarkers in Neurodegenerative Disease for the academic year 2023-24, for the benefit of B.Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 4th January,2024 and will be conducted every Thursday and Friday after class hours. The eligibility criteria include students pursuing Pharmacy degree that is B.Pharm. Interested students can enroll with, Dr. G Venkata Karthik Kumar Reddy course coordinator on or before 3rd January 2024.

Course Co-coordinator

Kaethie

Livastave.

HOD

Dr. G Venkata Karthik Kumar Reddy

Dr. Noopur Srivastava

Dr. Padmaa M Paarakh



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### **Organizing Committee**

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr. Noopur Srivastava Department of Pharmacology TOCP, Bangalore.
Program Coordinator	Dr. G Venkata Karthik Kumar Reddy, Department of Pharmacology TOCP, Bangalore.

### For Further Information Contact

Dr. G Venkata Karthik Kumar Reddy, Assistant Professor Department of Pharmacology TOCP, Bangalore

### THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Pharm D, Pharm D Post Baccalaureate and PhD Programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug control Board, Karnataka respectively, approved by A.I.C.T.E and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., B. Pharm

# Course On "Biomarkers in Neurodegenerative Disease"



#### Organized by

### THE OXFORD COLLEGE OF PHARMACY

Department of Pharmacology, 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

#### **Important Dates**

Duration: 30 hours

Last date for registration:03/01/2024

Date of commencement:04/01/2024

Planned Examination: After completion
of 30 hrs of classes

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68					
Contact	Dr. G Venkata Karthik					
person for	Kumar Reddy					
registartion	8884183476					

### **STRUCTURE**

- Course will be conducted for 30 hours.
- Every Thursday and Friday after the college hours.

### **COURSE DESCRIPTION**

The Department of Pharmacology
TOCP, Bangalore- 560068
introduces a thirty hours certificate
course on "Biomarkers in
Neurodegenerative Disease"
(Course Code: BND 2023-24). This
course offers the basic knowledge
about the various biomarkers used
in the Pharmacotheray of various
neurodegenerative diseases

### OBJECTIVES OF PROGRAM

- The main goal is to identify specific biomarkers, understand the molecular basis of neurodegenerative disorders
- This course help the students to know various disease-modifying therapies that can improve and simplify the areas of differential diagnosis, as well as monitor the disease course with the aim of estimating the prognosis or evaluating the effects of treatment and to summarize the current knowledge about clinically relevant biomarkers in different neurodegenerative diseases.

### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

### DURATION

Thirty hours beginning from 4th January 2024.

### **OUTCOME**

At the end of this course students were able to:

- Identify specific biomarkers and understand the molecular basis of neurodegenerative disorders.
- 2)To know various disease-modifying therapies that can improve quality of life.
- 3)Understand the principles that guide in estimating the prognosis or evaluating the effects of treatment.
- 4)Promote knowledge about clinically relevant biomarkers in different neurodegenerative diseases.
- 5)To maximise the quality of life.

### REGISTRATION PROCESS

Directly contact Course Co-Ordinator and register.



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### COURSE ON BIOMARKERS IN NEURODEGENERATIVE DISEASE (Course Code: BND 2023-24)

#### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	4/1/2024	Thursday	4:30PM-5:30PM	Inaugural Module-1	Dr. Padmaa. M. Paarakh Dr. G Karthik Reddy
2	5/1/2024	Friday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
3	11/1/2024	Thursday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
4	12/1/2024	Friday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
5	18/1/2024	Thursday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
6	19/1/2024	Friday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
. 7	25/1/2024	Thursday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
8	1/2/2024	Thursday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
9	2/2/2024	Friday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
10	8/2/2024	Thursday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
11	9/2/2024	Friday	4:30PM-5:30PM	Module-1	Dr. G Karthik Reddy
12	15/2/2024	Thursday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
13	16/2/2024	Friday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
14	22/2/2024	Thursday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
15	23/2/2024	Friday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
16	29/2/2024	Thursday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
17	1/3/2024	Friday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
18	7/3/2024	Thursday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
19	14/3/2024	Thursday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
20	15/3/2024	Friday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
21	21/3/2024	Thursday	4:30PM-5:30PM	Module-2	Dr. G Karthik Reddy
22	22/3/2024	Friday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy



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23	28/3/2024	Thursday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy
24	4/4/2024	Thursday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy
25	12/4/2024	Friday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy
26	18/4/2024	Thursday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy
27	19/4/2024	Friday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy
28	25/4/2024	Thursday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy
29	26/4/2024	Friday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy
30	3/5/2024	Friday	4:30PM-5:30PM	Module-3	Dr. G Karthik Reddy
31	3/5/2024	Friday	5:30PM-6:30PM	Valedictory	Dr. G Karthik Reddy

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Dr. G Venkata Karthik Kumar Reddy

Course Co-coordinators

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Dr. Noopur Srivastava

Principal

Dr. Padma M Paarakh



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#### Children's Education Society (Regd.)

### The Oxford College of Pharmacy

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### COURSE ON BIOMARKERS IN NEURODEGENERATIVE DISEASE

(Course Code: BND 2023-24)

#### REGISTRATION LIST

S.NO	NAME OF THE STUDENT	STUDENT SIGNATURE		
1	Pavana M			
2	Pavani.B	(Buan B.		
3	Pavitra hiremath	mi		
4	PK Aryan Otta	Oryan.		
5	Prajwal	grafied.		
6	Prakruthi J	2 if		
7	Praveen s shankri	Praveen		
8	M.Pravin kumar	M&L.		
9	R K Dhanush	ρ.		
10	Rakshitha.S	D-0.5:		
11	Rakshitha S	Rakshitha. S		
12	Rashmitha.A.R.	BL.R		
13	Ravichandra V	· Kau		
14	Ritesh Khemka	Men Kh_		
15	Rohith.V	·Rohith. V		
16	S Nanditha	(Nevel in _		
17	Sangeeta.N	Sao.N.		
18	Sara zaiba	Earbas.		
19	Saran .R	18 P		
20	Shapthagiri.j.m	Shaptie		

Karthie

Course Co-coordinators

Nivactava

HOD

Dr. G Venkata Karthik Kumar Reddy

Dr. Noopur Srivastava

Dr. Padma M Paarakh





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## COURSE ON BIOMARKERS IN NEURODEGENERATIVE DISEASE (Course Code: BND 2023-24)

#### **SYLLABUS**

MODULES	TOPICS								
MODULE-1	Introduction to Neurodenegenerative diseases and biomarkers .								
	Biomarkers used in Alzheimer's disease								
	Role of Amyloid Beta in AD								
	Role of Total Tau Protein, Phosphorylated Tau Protein in AD								
	Neurofilament Light Chains (NFL)in AD								
	CSF Biomarkers of AD								
	Biomarkers in Synucleopathies								
	Alpha synuclein and its forms								
	Role of Amyloid Beta, Total Tau Protein, Phosphorylated Tau Protein in Lewy body diseases and multiple system atrophy.								
	Neurofilament Light Chains (NFL) in Lewy body diseases and .multiple system atrophy								
	Ubiquitin hydrolase -1 as potential marker in Synucleopathies.								
MODULE -II	Introduction to Protienopathies								
	Tauopathies and TDP-43								
	Role of Amyloid Beta, Total Tau Protein, Phosphorylated Tau Protein in Tauopathies								
	Role of Amyloid Beta, Total Tau Protein, Phosphorylated Tau Protein in TDP-43								
	Role of Progranulin in Tauopathies								
	Role of Progranulin in TDP-43								
	Neurofilament Light Chains (NFL) in Tauopathies								
	Neurofilament Light Chains (NFL) in TDP-43								





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	Dipeptide repeat proteins as biomarkers in Tauopathies
	Dipeptide repeat proteins as biomarkers in TDP-43
MODULE-III	Prion Diseases
	RT-QuIC analysis
	Role of Total Tau Protein in Prion Diseases
	Neurofilament Light Chains (NFL) in Prion Diseases
	Biomarker Analysis
	Role of Exosomes in Biomarker Analysis
	Parkinson's Disease and Dementia
	Role of aplha synuclein in Parkinson's Disease and Dementia
	miRNA as potential biomarker in Parkinson's Disease

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CO-ORDINATORS

Dr.G Venkata Karthik Kumar Reddy

Mu'vactava

Dr. Noopur Srivastava Dr. Padmaa M Paarakh



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## COURSE ON BIOMARKERS IN NEURODEGENERATIVE DISEASE (Course Code: BND 2023-24)

#### **Outcome Report**

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore- 560068, completed a course on Biomarkers in Neurodegenerative Disease (Course Code: BND 2023-24). 20 students were registered and the course was conducted for 30 hours. This course has helped the students to understand the current knowledge about clinically relevant biomarkers in different neurodegenerative diseases.

Outcome: At the end of this course students were able to:

- 1) Identify specific biomarkers and understand the molecular basis of neurodegenerative disorders.
- 2) To know various disease-modifying therapies that can improve quality of life .
- Understand the principles that guide in estimating the prognosis or evaluating the effects of treatment.
- 4) Promote knowledge about clinically relevant biomarkers in different neurodegenerative diseases.
- 5) To maximise the quality of life.

The students were satisfied and were keen to attend such programs in future.

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Course Co-coordinator

Muivactaus

HOD

Dr.G Venkata Karthik Kumar Reddy

Dr. Noopur Srivastava

Dr. Padmaa M Paarakh

Oxford

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COURSE ON BIOMARKERS IN NEURODEGENERATIVE DISEASE

(Course Code: BND 2023-24)

Completion Report

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted a course on Biomarkers in Neurodegenerative Disease (Course Code: BND 2023-24) for the academic year 2023-2024. The course was intended to impart knowledge to the students to identify specific biomarkers and understand the molecular basis of neurodegenerative disorders and to improve quality of life.

The course was started with a formal inaugural function started by Principal Dr. M. Padmaa Paarakh. The function was conducted and all the participants were introduced by Dr. G Venkata Karthik Kumar Reddy, Course Coordinator. Our principal had emphasized on the importance of doing such courses in academics as well as in future also. The inaugural function has been summed up with the introductory lecture of course coordinator by Dr. G Venkata Karthik Kumar Reddy.

A total 30 hours course had been conducted after the college hours on Thursday and Friday. About 20 students were attended the course and benefited. The syllabus of the course had been divided into three modules. After the completion of each module an internal assessment was conducted and overall test was conducted after the completion of the course. After the completion of each module the tests were conducted.

All the students were written the test. Approximately 72.61 % students scored grade A (marks percentage-95-100%) in all the tests followed by 8.86 % who scored grade B (marks percentage-90-94%) and % scored grade C 9.87 % (marks percentage-85-90 %) and 9.0 % scored grade D (marks percentage-75-84 %). The performance of the students in the tests were found to be excellent. About 81.47% of the students had scored more than 95% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 03/05/2024 and the course participation certificates were distributed to all 20 students by the Principal Dr.Padmaa M Paarakh and Head of the Department Dr.Noopur

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srivastava. Dr. Noopur srivastava thanked Principal Madam and management for providing best infrastructure for carrying out such courses. On behalf of Department, she promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students in this course and also thanked the Department of Pharmacology, and the course coordinator Dr.G Venkata Karthik Kumar Reddy for successful completion of the course.

Course Co-coordinator

Dr.G Venkata Karthik Kumar Reddy

Ministave HOD

Dr. Noopur Srivastava

Principal

Dr. Padmaa M Paarakh



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## COURSE ON BIOMARKERS IN NEURODEGENERATIVE DISEASE (BND 2023-24)

#### ATTENDANCE STATEMENT

S.NO	Name of the student	1	2	3	-	,		7		-	10			-	,	
	Date of the Class	41.	4	1/1	12)	181	14.	osh	1/2	2/2	8/2	alr	15/2	14/2	20/2	231
1	Pavana M	Bu	80	Bu	an	Bu	84	bu	bu	bu	bu	-	Sw	bn	BW	
2	Pavani.B	B	8	8	8	B	8	8	B	8	8	8	18c	B	6	B
3	Pavitra hiremath	(cui	paul	pani	pani	pami	paui	POLI	pami	pour	Palli	pari	Paul	paul	Pami	Pau
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6	Prakruthi J	pa	pig	pg	py	pg	pg.	PA.	Pa	بيرم	pg	pg.	pg.	pg	P	pg
7	Praveen s shankri	R	B	R	B	PL	B	PL	Pz	R	PL	Pr	P	Dr	P	B
8	M.Pravin kumar	or	gu	no	a	a	gu	gr	9	gh	p	gr	gn	gr.	R	9
9	R K Dhanush	pr	PK	Pk	RK	RK	RK	2K	RK	RK	RK	RK	RK	RK	RK	R
10	Rakshitha.S	se	St	84	SF	84	8	8	80	80	g	80-	8	St	gr_	St
11	Rakshitha S	0	0	8	0	0	So.	P.	P		(C)	0	1	8	(B)	
12	Rashmitha.A.R.	2	1	1	1	P	l	1	1	1	1	2	L	L	1	A
13	Ravichandra V	7	2	2	P	4	R	2	2	R	4	R	2	1/2	4	,,,
14	Ritesh Khemka	ple	pa	Or	Qu	gr	all	per	Gu	- Pa	Rt	PL	Pa	æ	g/s	
15	Rohith.v	R	R	R	R	X	R	A	æ.	R	K,	R	*	8	P	d
16	S Nanditha	2	Æ	A	A	A	A	A	A	A	8	A	A	A	A	8
17	Sangeeta.N	8	8	8	QQ-	8	Se	gu	g	n	8	1	3	N	k	1
18	Sara zaiba	San	Su.	B	2	&u	Du	B	Se.	Æ.	Sa	Jan	S	2v	Su	Sa
19	Saran .R	\$	R	92	8	A	8	R	8	8	B	8	8	R	B	2
20	Shapthagiri.j.m	MS	MS	Ms	Ms	Me	MB	MS	Ms	MS	MS	Ms	MS	MS	MS	M
	SIGNATURE OF TEACHER	<b>V</b>	*	8	В	8	¥	L	بو	٧	¥	K	٢	K	٧	K



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#### COURSE ON BIOMARKERS IN NEURODEGENERATIVE DISEASE (BND 2023-2024)

#### ATTENDANCE STATEMENT

S.N	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Date of the Class	4/2	1	7/3	14/3	15/3	21/3	22	28/3	414	12/4	Vely	19/4	asly	21/4	375
1	Pavana M	BM	on	Bu	BW	bu	Bu	Bu	Su	DW	(366)	DW	δψ	De	ONE	gen
2	Pavani.B	B	0	0	0	0	0	0	Ò	à	8	@	a	a	Ø	B
3	Pavitra hiremath	pari	Pour	pui	Paul	pari		Pari	pain	pori	POLICE	pour	poui	posi	pami	paui
4	PK Aryan Otta	AO	10	10	10	10·	40	40	90	40	40	40	00	40	₩	AC
5	Prajwal	Bai	Bai	Rig	Rej	Bai	Proi	Rei	Paol	Prof	Rol	Proj	Bad	80	Big	Bigg
6	Prakruthi J	pg.	pg	pg.	09.	pg	pra.	pag.	P	pg.	بروم	page	pq.	page	pay.	pay.
7	Praveen s shankri	R	12	P	PZ	PZ	PL	PL	R	02	PL	PL	PL	PZ	PL	P2
8	M.pravin kumar	ge.	P	ge	(gr	ge	90	gr	ga.	a	a	g	æ	pe	æ	ø_
9	R K Dhanush	RK	RK	RX	RK	RK	RK	Łk	RK	RK						
10	Rakshitha.S	1	g	82	8	80	8	gr	80	80	8	&r	82	gr_	80	60
11	Rakshitha S	0	B	B	P	80	Ø.	R)	Ø	8	1	B	B	D	0	Ø
12	Rashmitha.A.R.	9	R	a	1	R	2	4	2	2	2	2	8	2	2	2
13	Ravichandra V	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
14	Ritesh Khemka	0	a	a	or	pe	(M)	Bar	pl	a	m	N	gd	gu	ph	ac
15	Rohith.v	P	2	8	4	8	P	2	R	R	4	4	4	4	P	R
16	S Nanditha	A	A	8	2	A	A	8	A	A	A	A	a	a	a	A
17	Sangeeta.N	Se	ge .	M	2	er	se	Re	2	h	Se	fu	A	h	h	N
18	Sara zaiba	Jan	Sag	Gua	Jan	San	Jan	Seu	San	ga.	Sec.	Ine	San	San	gar	Se
19	Saran .R	8	B	8	8	8	8	8	8	R	R	8	5	8	#	2
20	Shapthagiri.j.m	MS	M	M	MC	MS	MC	M	M	1	M	SYS	MC	4/2	MS	1:1
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## **PARTICIPATION CERTIFICATE**

Karher

**Course Coordinator** 

Muractava.

Principal

Dr. G Venkata Karthik Kumar Reddy

Dept. of Pharmacology
The Oxford College of Pharmacy

Dr. Noopur Srivastava
Dept. of Pharmacology
The Oxford College of Pharmacy





## **PARTICIPATION CERTIFICATE**

This is to certify that .....RAVI CHANDRA: V...of .J.B.PHARM has undergone a Course on Biomarkers in Neurodegenerative Disease held at the Department of Pharmacology, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-2024.

Karther

**Course Coordinator** 

Muractawa. HOD

Principal

Dr. G Venkata Karthik Kumar Reddy

Dept. of Pharmacology
The Oxford College of Pharmacy

Dr. Noopur Srivastava
Dept. of Pharmacology
The Oxford College of Pharmacy





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Karther

**Course Coordinator** 

Muractava.

P. Podwo Principal

Dr. G Venkata Karthik Kumar Reddy

Dept. of Pharmacology The Oxford College of Pharmacy Dr. Noopur Srivastava
Dept. of Pharmacology
The Oxford College of Pharmacy





## **PARTICIPATION CERTIFICATE**

This is to certify that ...k.k. Dhanush ...of ...I.B. Pharm. has undergone a Course on Biomarkers in Neurodegenerative Disease held at the Department of Pharmacology, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-2024.

Karmer

**Course Coordinator** 

Muractava. HOD

Principal

Dr. G Venkata Karthik Kumar Reddy

Dept. of Pharmacology The Oxford College of Pharmacy Dr. Noopur Srivastava
Dept. of Pharmacology
The Oxford College of Pharmacy





## **PARTICIPATION CERTIFICATE**

Karther

**Course Coordinator** 

Suvostava. HOD

7 (Podul)
Principal

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The Oxford College of Pharmacy

Dr. Noopur Srivastava
Dept. of Pharmacology
The Oxford College of Pharmacy



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#### **COURSE ON DIGITAL HEALTH AND PHARMACY INFORMATICS**

(Course Code: DHPI 2023-24)

#### ATTENDANCE STATEMENT

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	15/4	16/7	18/4	22/ 7	23/7	24/	25/ 1	29/7	30/#	31/4	01/08	05/	06/	04/08	08/08
1	DIVYA C K	A	æ	D	æ	æ	B	æ	æ	æ	B	æ	æ	D	æ	æ
2	GAGAN SAGAR M	G	-G	q	g	9	8	g	-g	g	eg	-g	4	To	e	g
3	GAYATHRI. N. BIRADAR	GB	GB	GB	qз	GB	GB	GB		GB	GB	GB	GB	GB	GB	9B
4	GOWTHAM S	Gow	Grava	Grew	Gru	Gu	Grow	Gow	Gow	Gow	Gow	Gov	Gen	Gow	Gov	Gow
5	HARISH TK	HTK	HTK	HTE	HTK	MTK	HTK	HTk	HTX	HTK	итк	HTK	HTK	HTK	HTK	НТК
6	HARSHITHA. P	ИP	WP	WP	MP	ИР	MP	۸P	MP	HP.	MP	ИP	ИР	MP	HP	mp
7	R. HARSHITHA	Hai	Hair	Hai	Hai	Hai	Hair	Mari	Han	Han	Han	Han	Vai	Kan	. Vami	Hair
8	M.HEMANTH	My	МИ	Ми	Mn				,,,,		Mn	Mh	"		Mr	M
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10	PRAVIN J	Ran	Praw	Prav	Pra	Pra	Pran	Pran	Pram	Prawi	Pam	Pran	Par	Poar	Pra	Pra
11	JEEVAN.R	Jew	Jew	Fee	Fer	Fer	Fee	Fee	Ter	Ter	Ten	Tr	Tr	Few	Zew	Fem
12	JEEVITHA S	Jews	Fus	Zus	78	Jus	B	Js	K	B	B	B	B	TS	78	K
13	K LAKSHMI	KL	KI	W		gh	*	ke	K	the		K+	K	KL	N	K
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#### COURSE ON DIGITAL HEALTH AND PHARMACY INFORMATICS

(Course Code: DHPI 2023-24)

#### ATTENDANCE STATEMENT

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Date of the Class	12/08	13/08	14/08	26/08	27/08	28/08	29/	02/09	03/	09/09	05/	09/	1%	1//9	12/4
1	DIVYA C K	D	A	D	A	D	D	0	D	N	æ	æ	Ø	4	0	A.
2	GAGAN SAGAR M	4	4	g	9	-G	4	G	G	4	4	G	g	4	g	Z
3	GAYATHRI. N. BIRADAR	Se	GB	GB	GB	GВ	GB	GB	GB	GB	GB	GB	GB	GB	GB	GB
4	GOWTHAM S	Gpus	Grow	Grow	Cou	Gov	Gow	Gous	Grow	Gus	Grew	Grew	Go.	Gu	Gow	6
5	HARISH TK	HILK	TITK	HTK	HTK	HTK	HTK	HTK	HTK	HTK	HTK	HTK	итк	HTK	HTK	MTK
6	HARSHITHA. P	пP	ИР	ИР	ИР	ИР	np	ИР	WP	1177	WP	MP	КР	ИР	HP	нР
7	R. HARSHITHA	Hai	Hãn	Nai	Hai	Han	Hai	Nan	Mari	Hein	Haui	Hai	Han	Ni	Hair	pi.
8	M.HEMANTH	MA	Mu	Nym	MM	NW)	Ми	MIN	МН	Ми	Ми	Mn			Ми	MH
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10	PRAVIN J	Pran	Pran	Pran	Pran	Pra	Pra	Prom	Poa	Pran	Prou	Pran	Pra	Pran	Prai	Prav
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12	JEEVITHA S	K	B	B	B	B	FS	B	BS	B	B	B	B	78	180	B
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15	MADHURA R	MR	MR		MR	MR		MR		MR	Me	M	RM	MR	MR	MR
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#### COURSE ON DIGITAL HEALTH AND PHARMACY INFORMATICS

(Course Code: DHPI 2023-24)

#### List of students

S. No	Name of the student	Signature					
1	DIVYA C K	Dinyan.					
2	GAGAN SAGAR M	Dinjan. Gagan.					
3	GAYATHRI. N. BIRADAR	-GB					
4	GOWTHAM S	Cowthen.					
5	HARISH TK	41TK					
6	HARSHITHA. P	112.					
7	R. HARSHITHA	RHunghite-					
8	M.HEMANTH	M. Glumanth.					
9	IQRA	TORA					
10	PRAVIN J	Baum. J					
11	JEEVAN.R	Teu.					
12	JEEVITHA S	Gentha S.					
13	K LAKSHMI	a:					
14	KUMARI MUSKAN	Muskan					
5 MADHURA R		Merdhenar.					

Course Co-coordinator

HOD

Principal

Mrs. Pallavi N.

Dr. Noopur Srivastava

Dr. Padmaa M Paarakh



#### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affillated to Rajiv Gandhi University of Health Sciences, Karnataka;

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#### COURSE ON DIGITAL HEALTH AND PHARMACY INFORMATICS

(Course Code: DHPI 2023-24)

#### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	15/07/2024	Monday	04:30PM-05:30PM	Inaugural Module-1	Dr. Padmaa. M. Paarakh Mrs. Pallavi N.
2 .	16/07/2024	Tuesday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
3	18/07/2024	Thursday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
4	22/07/2024	Monday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
5	23/07/2024	Tuesday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
6	24/07/2024	Wednesday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
7	25/07/2024	Thursday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
8	29/07/2024	Monday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
9	30/07/2024	Tuesday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
10	31/07/2024	Wednesday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
11	01/08/2024	Thursday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
12	05/08/2024	Monday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
13	06/08/2024	Tuesday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
14	07/08/2024	Wednesday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
15	08/08/2024	Thursday	04:30PM-05:30PM	Module-1	Mrs. Pallavi N.
16	12/08/2024	Monday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
17	13/08/2024	Tuesday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
18	14/08/2024	Wednesday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
19	26/08/2024	Monday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.





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20.	27/08/2024	Tuesday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
21	28/08/2024	Wednesday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
22	29/08/2024	Thursday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
23	02/09/2024	Monday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
24	03/09/2024	Tuesday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
25	04/09/2024	Wednesday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
26	05/09/2024	Thursday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
27	09/09/2024	Monday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
30	10/09/2024	Tuesday	04:30PM-05:30PM	Module-2	Mrs. Pallavi N.
31	11/09/2024	Wednesday	04:30PM-05:30PM	Valedictory	Mrs. Pallavi N.

Course Co-coordinator

Mrs. Pallavi N

Neivostaug HOD

Dr. Noopur Srivastava

Principal

Dr. Padmaa M Paarakh





## The Oxford College of Pharmacy

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## COURSE ON DIGITAL HEALTH AND PHARMACY INFORMATICS

(Course Code: DHPI 2023-24)

#### **SYLLABUS**

MODULES	TOPICS
	Overview of Digital Health: Definition, importance, and key components
	Telemedicine and Telehealth: Differences, benefits, and challenges in implementation.
	Mobile Health (mHealth) Applications: Types, uses, and evaluation of health apps.
	Wearable Health Technologies: Impact on health monitoring and chronic disease management.
	Health Information Exchange (HIE): Mechanisms, benefits, and challenges of data sharing.
	Patient Engagement Tools: Digital strategies to enhance patient involvement in care.
	Artificial Intelligence in Health Care: Applications in diagnostics, treatment, and personalized medicine.
MODULE-1	Big Data Analytics in Health: Utilizing large datasets for improving health outcomes.
	Health Informatics Standards: Importance of interoperability and common standards
	Digital Therapeutics: Evidence-based software to treat or manage medical conditions.
	Cybersecurity in Digital Health: Protecting patient data and ensuring system integrity.
	Regulatory and Legal Issues: Overview of regulations affecting digital health technologies.
	Remote Patient Monitoring: Technologies and methods for tracking patient health outside clinical settings.
	Digital Health Disparities: Addressing inequalities in access to digital health resources
	Future Trends in Digital Health: Emerging technologies and innovations shaping the future of health care.
	Electronic Health Records (EHRs) in Pharmacy: Exploring integration and data management.
	Medication Management Systems: Tools for tracking prescriptions and ensuring adherence.





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Clinical Decision Support Systems (CDSS): Enhancing decision-making through data analytics.

Pharmacy Automation Technologies: Robotics and automation in medication dispensing.

Interoperability Standards: Ensuring seamless data exchange between systems.

Interoperability Standards: Ensuring seamless data exchange between systems.

MODULE-II

Tele-pharmacy: Remote pharmaceutical care and consultation technologies.

Data Analytics in Pharmacy: Leveraging big data for improving outcomes.

Patient-Centered Care Models: Informatics approaches to enhance patient engagement.

Regulatory Compliance and Informatics: Navigating FDA and HIPAA requirements in pharmacy data.

Pharmacy Information Systems (PIS): System design and functionality for managing pharmacy operations.

Mobile Health (mHealth) Applications: Role of mobile apps in medication management and education.

Artificial Intelligence in Pharmacy: Applications of AI for drug discovery and personalized medicine.

Pharmacy Informatics Education and Training: Curriculum development for future pharmacy informaticists.

Health Information Exchange (HIE): Facilitating data sharing across healthcare settings for improved care.

CO-ORDINATOR

Mrs. Pallavi N

Mulastang.

HOD

Dr. Noopur Srivastava

PRINCIPAL

PRINCIPAL

Dr. Padmaa M. Paarakh

Oxford

## THE OXFORD COLLEGE OF PHARMACY # 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## **PARTICIPATION CERTIFICATE**

Course Co-ordinator

Milvostavo.

Principal

Mrs. Pallavi N.

Dept. of Pharmacology
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Dr Noopur Srivastava

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The Oxford College of Pharmacy

Dr. Padmaa M Paarakh

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## PARTICIPATION CERTIFICATE

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Miliostava. HOD

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The Oxford College of Pharmacy

Dr. Padmaa M Paarakh

The Oxford College of Pharmacy





## **PARTICIPATION CERTIFICATE**

This is to certify that ...K. LAKSHMIT.....of !Y.sem. B.Phasm. has undergone an Course on Digital Health And Pharmacy Informatics held at the Department of Pharmacology, The Oxford College of Pharmacy, Bangalore, Karnataka, for the Academic Year 2023-24.

Course Co-ordinator

Muractanga HOD

Principal

Mrs. Pallavi N.

Dept. of Pharmacology The Oxford College of Pharmacy Dr Noopur Srivastava

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The Oxford College of Pharmacy





## **PARTICIPATION CERTIFICATE**

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Mrs. Pallavi N.

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The Oxford College of Pharmacy

Dr Noopur Srivastava

Dept. of Pharmacology
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Dr. Padmaa M Paarakh

The Oxford College of Pharmacy





## PARTICIPATION CERTIFICATE

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Dr Noopur Srivastava

Dept. of Pharmacology The Oxford College of Pharmacy Dr. Padmaa M Paarakh

The Oxford College of Pharmacy



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#### COURSE ON AI IN PHARMACY: ENHANCING STUDENT LEARNING

(Course Code: AIP 2023-24)

Notice

Date: 28-12-2023

To

Notice Board

To be read in the classrooms

Course Coordinator -Dr. A.Muthukumar

The Oxford College of Pharmacy, Bangalore, is excited to offer a 30-hour course on AI in Pharmacy: Enhancing Student Learning for the academic year 2023-24. This course, which is unique in its focus on AI in the pharmaceutical field, is offered at no cost and does not offer academic credit. The classes for the course will start from 3<sup>rd</sup> Jan 2024 and will be conducted after the college hours on Wednesday and Saturday. The eligibility criteria include students pursuing PG courses. Interested students can enroll with Dr. A.Muthukumar, course coordinator, on or before 1<sup>st</sup> Jan 2024.

Course Coordinator

Dr. A. Muthukumar

Muivaetawa

Dr Noopur Srivastava

PRINCHAL

Dr Padmaa M Paarakh



**Organizing Committee** 

Chairperson Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.

Organizing Secretary
Dr. Noopur Srivastava,
Head, Department of Pharmacology
TOCP, Bangalore.

Program Coordinators
Dr. A.Muthukumar,
Mrs. Keserla Bhavani
Department of Pharmacology
TOCP, Bangalore.

For Further Information Contact
Dr. A.Muthukumar, (9976696000)
Department of Pharmacology,
TOCP, Bangalore
Email:
drmkpharmacologist@gmail.com

#### THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) TOCP programs. recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

# AI IN PHARMACY: ENHANCING STUDENT LEARNING

Course

On

Organized by

Department of Pharmacology, TOCP

ELIGIBILITY CRITERIA
Students Pursuing Master of Pharmacy

Duration: 30 hours

Late date for Registration:-01/01/2024

Date of commencement:03/01/2024

Date of examination: After completion of 30 hours of classes.



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#### COURSE ON AL IN PHARMACY: ENHANCING STUDENT LEARNING

(Course Code: AIP 2023-24)

#### SYLLABUS

MODULE	TOPICS							
	Introduction to Al in Pharmacy							
	History of Al in Pharmacy							
	Applications of AI in Drug Discovery							
	AI in Pharmacokinetics							
MODULE -I	AI in Pharmacodynamics							
MODULE -I	AI in Pharmaceutical Formulation							
	AI in Clinical Trials							
	AI in Pharmacovigilance							
	AI in Personalized Medicine							
	AI in Drug Interaction Analysis							
	AI in Disease Diagnosis							
	AI in Pharmacy Automation							
	AI in Medication Adherence							
	AI in Patient Counseling							
	AI in Drug Pricing and Reimbursement							
•	AI in Regulatory Compliance							
	Ethical Considerations in AI in Pharmacy							
	Future Trends in AI in Pharmacy							
	AI-based Precision Medicine							
	AI in Genomic Medicine							
	AI in Nanomedicine							
MODULE -II	AI in Antibiotic Stewardship							
	AI in Herbal Medicine							
	AI in Over-the-Counter Products							
	AI in Telepharmacy							
	AI in Pharmacy Inventory Management							
	AI in Patient Data Privacy and Security							
	AI in Medication Error Prevention							
	AI in Pharmaceutical Marketing							
	AI in Pharmacy Education and Training							

Course Coordinator

Dr. A. Muthukumar

Muiva stant

Dr Noopur Srivastava

P Pad wo

Dr Padmaa M Paarakh





#### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;
Approved by Pharmacy Council of India, New Delhi)

Accredited by NAAC and International Accreditation Organization (IAO)

#### COURSE ON PHARMACOGENOMICS AND GENOMICS DATA ANALYSIS

(Course Code: AIP 2023-24)

SESSION PLAN

or NO	DATE	DAY	SESSION PLA	MODULE	FACULTY
SL.NO				Inauguration	Dr . Padmaa M.
1	3/01/24	Wednesday	4:00-5:00	and Module-1	Paarakh Dr. Noopur Srivatava
2	6/01/24	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavani
3	10/01/24	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavan
4	13/01/24	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavan
. 5	17/01/24	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavan
6	20/01/24	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavan
7	24/01/24	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavan
8	27/01/24	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavan
9	31/01/24	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavan
10	3/02/24	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavan
11	7/02/24	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavan
12	10/02/24	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavan
13	14/02/24	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavan
14	17/02/24	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavan
15	21/02/24	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavan
16	24/02/24	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
17	28/02/24	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
18	2/03/24	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
19	6/03/24	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
20	9/03/24	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
21	13/03/24	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
22	16/03/24	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
23	23/03/24	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
24	27/03/24	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
25	30/03/24	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
26	3/04/24	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
27	6/04/24	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
28	10/04/24	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
29	13/04/24	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
30	17/04/24	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
31	20/04/24	Saturday	2:00-3:00	Valedictory	Dr. Noopur Srivatava

Course Coordinator

Dr A. Muthukumar

HOD

Dr Noopur Srivastava

P. (Pad us PRINCHAL

Dr Padmaa M Paarakh





#### The Oxford College of Pharmacy

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#### COURSE ON AL IN PHARMACY: ENHANCING STUDENT LEARNING

(Course Code: AIP 2023-24) List of students

S.N	Name of the student	Signature
1	Amit Singh	A
2	Badepalli Reddaiah Reddy	Ru
3	Benguluri Ramesh Tejaswini	this
4	Harsha K M	Hus.
5	Jawahar Maniya Rasan S	Jet.
6	Manoj	Manej
7	Mohammad Amin Yatoo	Jul
8	Mulla Uzma Riyaz	Voc
9 .	Nallagatla Sunanda	Sund
10	R Navyasree	but.
11	Ranjitha Ramesh Shetty	Pendo
12	Sneha M	8 Le
13	Sonali Milan Nalawade	94
14	Swetha Yoganandan	M.
15	Vijay Kumar R	XIEGHT

Dr.A.Muthukumar

Dr. Noopur Srivastava

Dr. Padmaa M Paarakh





#### The Oxford College of Pharmacy

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#### COURSE ON ALIN PHARMACY: ENHANCING STUDENT LEARNING

(Course Code: AIP 2023-24)

Completion Report

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore, conducted a course on AI in Pharmacy: Enhancing Student Learning (Course Code: AIP 2023-24) for the academic year 2023-24. The course was intended to impart knowledge about the basic principles and techniques related to AI in Pharmacy.

The course started with an inaugural function that welcomed the principal, Dr Padmaa M. Paarakh. The function was conducted in Room NO-507, and Course Coordinator Dr Muthukumar A. and Mrs Keserla Bhavani introduced all the participants. A total of 15 M.Pharm students were present. Our principal emphasized the importance of doing such courses to improve their future. The inaugural function was summed up with Mrs Keserla Bhavani's introductory lecture.

A total of 30 hours of courses were conducted after college hours on Wednesday and Saturday. A total of 15 PG students were enrolled for this course. The course syllabus has been divided into two modules. After the completion of each module, an internal assessment was conducted, and an overall test was conducted after the completion of the course. The results of modules I & II were analyzed. Approximately 37.77 % of students scored grade A (marks percentage-95-100%) in all the tests, followed by 38.88 % of students who scored grade B (marks percentage-90-94%) and 23.35 % scored grade C (marks percentage-85-89%) and 0 % scored grade D (marks percentage-80-84 %). The performance of the students in the tests was found to be good. About ninety percent of the students had secured excellent grades on all the tests. Students showed keen interest in attending and learning the concepts, and their doubts were also clarified after the classes.

The valedictory function was conducted on 20/04/2024, and the Principal, Dr. Padmaa M. Paarakh, and the Head of the Department, Dr. Noopur Srivastava, distributed the course participation certificate to all 15 M.Pharm students. Dr. Noopur thanked the principal and management for providing the best infrastructure for such courses and promised to conduct such courses in the future on behalf of the department.

The guest of the valedictory function, Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore, appreciated the students' enthusiasm for this course and congratulated the Department of Pharmacology and the course coordinator, Dr. Muthukumar A, on the successful completion of the course.

Course Coordinator

Dr A.Muthukumar A

HOD HOD

Dr Noopur Srivastava

PRINCIPAL

Dr Padmaa M Paarakh

Oxford COLLIST OF PRAIMACY No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



#### The Oxford College of Pharmacy

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#### COURSE ON ALIN PHARMACY: ENHANCING STUDENT LEARNING

(Course Code: AIP 2023-24)
Outcome Report

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore—560068, completed a course on Al in Pharmacy: Enhancing Student Learning (Course Code: AIP 2023-24). About 15 M.Pharm students registered, and the course was conducted for 30 hours. This course trains registrants to have essential information about the basic principles and techniques related to AI in Pharmacy.

Outcomes: At the end of this course, students were able to,

- The course outcome is that students will better understand how artificial intelligence can be integrated into pharmacy education to enhance their learning experience.
- They will benefit from identifying specific AI tools and techniques tailored to improve their learning outcomes in pharmacy education.

The students were satisfied and were keen to attend such programs in the future.

Dr.A. Muthukumar

Nuvadawa HOD

Dr Noopur Srivastava

Dr Padmaa M Paarakh





#### The Oxford College of Pharmacy

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#### COURSE ON ALIN PHARMACY: ENHANCING STUDENT LEARNING

(Course Code: AIP 2023-24)

#### ATTENDANCE STATEMENT

SI. No	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of Class	刘	6/1	101	13/1	17/1	201	zed)	27/1	3/11	2\2	1/2	(82	142	11/2	21
1	Amit Singh	A	A	A	H	A	A	A	A	A	A	1	1	A	1	1
2	Badepalli Reddaiah Reddy	R	R	R	R	2	R	R	R	R	R	P	10	R	R	K
3	Benguluri Ramesh Tejaswini	the	10	tui	拉	ty	this	tyc	tri	Je in	tu	tu	the	the	tui	tyi
4	Harsha K M	U	u	a	a	CP	G	a	G	4	4	CP	a	Cl	d	y
5	Jawahar Maniya Rasan S	4	#	4	#	#	#	\$1.	\$	4	A	Sy.	#	19	#	44
6	Manoj	H	a.	AL.	M	- Sta	M	in.	W	×	M	M	X	M	SH.	W
7	Mohammad Amin Yatoo	SS	LS.	St	Ag	SI	S	SI	4	de	48	S	St	S	SH	P
8	Mulla Uzma Riyaz	0	0	0	0	0	0		Ø.	0	10	0	0	0	W	(D)
9	Nallagatla Sunanda	3	8	5	5.	8	8	8	8	8	8	8	8	8	8	8
10	R Navyasree	The	B	H	4	B	A	B	A	1	D	4	B	4	A	PA
11	Ranjitha Ramesh Shetty	12	Ø	Ø	D	P	Ø(	D(	DO.	D	Ø	Ď	Ø	Ø.	Ø.	Ø
12	Sneha M	8	8	8	8	8	8	8	8	8	8	8	8	8	18	18
13	Sonali Milan Nalawade	88	<b>%</b> :	8	86.	84.	85	Ø.	&	84.	X.	84.	8	Ø.	SK-	8
14	Swetha Yoganandan	Q	Q	Q	8	0	0	8	0	8	8	82	8	8	8	8
15	Vijay Kumar R	W	18	V	16	14	V	W	16)	18	WA	14	W	W	War	*
	Signature of teacher	R	1	1	B	1	2	1	8	A	A	1	6	A	1	B



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SI. No	Student Name	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Date of Class	rul?	id	20	12	alz	uls	16/3	21	23>	30/1	314	6/4	1019	13/	11/4
1	Amit Singh	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2	Badepalli Reddaiah Reddy	à	P	R	2	2	P	e	a	R	R	P	à	R	R	P
3	Benguluri Ramesh Tejaswini	加	tw	坝	ty	Ty:	tyi	妙	te	加	如	城	柳	14	ty	14
4	Harsha K M	2	$\mathcal{D}$	a.	W	W	W	W	W	W	N	W	0	D(	R.	W
5	Jawahar Maniya Rasan S	4	A	4	4	4).	4	A).	4	M	4	4	4.	tel.	Ay)	4
6	Manoj	110	W.	JUL .	44	i	*	W	ú	SW.	W-	14-	M.	M	*	44
7	Mohammad Amin Yatoo	M	A	X	K	X	*	X	A	X	4	X	X	M	X	X
8	Mulla Uzma Riyaz	W	4	W	4	9	4	19	COL	w	9	il	W.	W.	10	×
9	Nallagatla Sunanda	C	Z	5	3	5	5	Ś	8	9	5	9	5	5	3	<
10	R Navyasree	*	A	H	No	D	AX	A	M	M	A	A	#	N	M	M
11	Ranjitha Ramesh Shetty	村	d	B	H	#3	W	#	H	H	1	B	RA	B	B	A
12	Sneha M	9	4	8	Q	8	8	8	a	a	8	8	Q.	8	8	8
13	Sonali Milan Nalawade	38.	<b>8</b> %.	88.	St	8k.	8k.	84.	&	& <i>:</i> -	84.	8f:	St	8.	84	84
14	Swetha Yoganandan	8	8	8	8	&	8	8	8	8	8	8	8	6	8	8
15	Vijay Kumar R	M	X	V.	V	V	V	X	Y	D	V	A	X	V	X	1
	Signature of teacher	A	A	1	1	- 1	1	-1	+	1	1	1	1	4	4	1



# THE OXFORD COLLEGE OF PHARMACY

BENGALURU, INDIA

## Certificate of Participation

This is to certify that

AMIA SINIGH

for attending a Course on "AI IN PHARMACY: ENHANCING STUDENT LEARNING" organized by Department of

Pharmacology, The Oxford College of Pharmacy, Bengaluru.

Divortina

**Organizing Secretary** 

P. Paguo

Convenor

Programme Coordinator



# THE OXFORD COLLEGE OF PHARMACY

BENGALURU, INDIA

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Minatowa.

**Organizing Secretary** 

P. Pad up

Programme Coordinator



## THE OXFORD COLLEGE OF PHARMACY

BENGALURU, INDIA

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Organizing Secretary

P. Paduo Convenor

Programme Coordinator



# THE OXFORD COLLEGE OF PHARMACY

BENGALURU, INDIA

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Organizing Secretary

P. Podwo Convenor

Programme Coordinator



### The Oxford College of Pharmacy

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# COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24 (Course Code: QMMC)

#### NOTICE

Date: 26-12-2023

To

#### **Notice Board**

To be read in the class rooms

Ms. G. Suvarna lakshmi, Course Coordinator

To be filed

The Oxford College of Pharmacy, Bangalore introduces 30 hours course on Quantum Mechanics In Medicinal Chemistry for the academic year 2023-24, for the benefit of III Pharm. D students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 05<sup>th</sup> January 2024 and will be conducted every Friday and Saturday after the college hours. The III Pharm. D students are instructed to enroll their names with G. Suvarna Lakshmi, coordinator on or before 3<sup>rd</sup> January 2024.

CO-ORDINATOR

Mrs. G. Suvarna Lakshmi

Dr. Jyoti Shrivastava

Dr. Padmaa M. Paarakh



### **Organizing Committee**

80		
	Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
のからのないとのは、一般のないのでは、これのは、これのは、これのは、これのは、これのは、これのは、これのは、これの	HOD	Dr. Jyoti Shrivastava, Department of Pharmaceutical Chemistry, TOCP, Bangalore.
された。日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、	Program Coordinator	Mrs. G. Suvarna Lakshmi Department of Pharmaceutical Chemistry, TOCP, Bangalore.

### For Further Information Contact

Ms. G. Suvarna Lakshmi

Assistant Professor

Department of Pharmaceutical

Chemistry

TOCP, Bangalore

Email:
suvarnapharmacy2023@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug Board. Karnataka Control respectively, Pharmacy Council of India, New Delhi and NAAC, TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### ELIGIBILITY CRITERIA

Students of Pharm. D.

COURSE

On

# "QUANTUM MECHANICS "IN MEDICINAL "CHEMISTRY"



Organized by

### THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutical Chemistry, 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

Important Dates

Duration: 30 hours

Last date for registration: 03rd January

2024

Date of commencement: 05th January 2024

Planned Examination: After completion of

30 hours classes

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Ms. G. Suvarnalakshmi 9902051815

### STRUCTURE

- Course will be conducted for total 30 hours.
- Every Friday & Saturday after the college hours.

### **COURSE DESCRIPTION**

The Department of Pharmaceutical Chemistry, TOCP, Bangalore- 560068 introduces a 30 hours course on "QUANTUM MECHANICS IN MEDICINAL CHEMISTRY" (Course Code: QMMC 2023-24). This course offers the basic knowledge about the therapeutic nutrition and knowledge of nutrients & their functions.

# OBJECTIVES OF PROGRAM

- This course will help the students to understand the fundamental concepts of quantum mechanics such as quantum waves & states, and their relevance to the chemical systems.
- The course provides to explore the quantum mechanics in reaction mechanism, drug development in at quantum level and reaction kinetics.
- This course will help how to use quantum mechanics to explain drug-receptor interactions, molecular docking, and how electronic structure influences the binding affinities of drug candidates.

### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus.

### **DURATION** 30 hours

### OUTCOME

- This course provides information how to apply quantum mechanical principles to predict molecular structures, drug-receptor interactions, and chemical reactivity, enhancing their capabilities in rational drug design and discovery.
- Students will acquire skills in model molecular behaviour and simulate biological interactions, which are crucial for medicinal chemistry research.
- Participants will achieve a deeper understanding of how quantum effects influence biological processes and reaction mechanisms.

### REGISTRATION PROCESS

Contact Course Co-Ordinator for registration.

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Ms. G. Suvarnalakshmi 9902051815

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# COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24 (Course Code: QMMC)

Registration list

S.NO	NAME OF THE STUDENT	SIGNATURE					
1	Varsha M	· And .					
2	Abhirami P Pillai	Athirami P.					
3	Afrah fathima	Arcub					
4	Aijinghun umsong	Aku-					
5	Akshaya s	Airshay.S					
6	Amit kumar jena	Anitei					
7	Arushi Nair	Share.					
8	Bhavana M Reddy	Bhowens.M. Reddy Harshilton Ors					
9	Harshitha G S	Harshitta CYS					
10	Hashuba N	Hashubag					
11	Heena K	Heene					
12	Keerthi Reddy M	Recofli					
13	Kiruba Evanjalin M	King.					
14	Mohammed Shadaab	m.d.shadads					
15	Monish T	Marich.					
16		Pahi					
17		Rakeli					
18		Someleck tremos					
19		Uttana .8					
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2		(Q)					
2:		Vishwateja B Spasum S.					
2		South 'S					
2	4 Sourashish Baidya	. (813)					

Course Coordinator

Mrs G. Suvarna Lakshmi

NOD

Dr. Jyoti Shrivastava

P. Pad wa

Dr. Padmaa M. Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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# COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24 (Course Code: QMMC)

#### **SYLLABUS**

S. No	Module	Topic .							
I	Introduction	Introduction to the program							
II	Module I	Fundamentals of Quantum Mechanics in Medicinal Chemistry							
		Principles of quantum mechanics							
		Schrodinger equation and its solutions for simple systems							
		Quantum mechanical models of atoms and molecules							
		Molecular orbitals, bonding, and electronic structure							
		Approximation Methods in Quantum Mechanics							
		Molecular Orbital theory							
		Symmetry and Group Theory in Quantum Mechanics							
III									
		Introduction to Quantum Computational Chemistry							
		Density Functional Theory (DFT) in Drug Design							
		Molecular Docking and Quantum Mechanics							
		Quantum Mechanics in Pharmacophore Modeling							
		Predicting ADMET Properties Using Quantum Chemistry							
		Transition State Search and Reaction Mechanisms							
		Quantum-Based Simulation of Enzyme-Substrate Interactions							
IV	Module III	Quantum Effects in Biological Systems and Medicinal Chemistry							
		Quantum Tunneling in Enzymatic Reactions							
		Quantum Mechanics and Drug Binding							
		Electron Transfer in Biological Systems							
		Quantum Spin and Drug Interactions							
		Quantum Mechanics in Protein Folding							
		Quantum Principles in Cellular Communication							

CO-ORDINATORS

Mrs. G. Suvarna Lakshmi

Dr. Jyoti Shrivastava

Dr. Padmaa M. Paarakh





### The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

# COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24 (Course Code: QMMC)

SESSION PLAN

			SESSION F	LAN	
SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	05-01-2024	FRIDAY	4.00 PM -5.00 PM	INAUGURATION	Dr. Padmaa. M. Paarakh Dr. Jyoti Srivasthava
2	06-01-2024	SATURDAY	2.00 PM -3.00 PM	Module I	Mrs. G. Suvarna Lakshmi
3.	06-01-2024	SATURDAY	3.00 PM -4.00 PM	Module I	Mrs. G. Suvarna Lakshmi
4.	12-01-2024	FRIDAY	4.00 PM -5.00 PM	Module I	Mrs. G. Suvarna Lakshmi
5.	19-01-2024	FRIDAY	4.00 PM -5.00 PM	Module I	Mrs. G. Suvarna Lakshmi
6.	20-01-2024	SATURDAY	2.00 PM -3.00 PM	Module I	Mrs. G. Suvarna Lakshmi
7.	20-01-2024	SATURDAY	3.00 PM -4.00 PM	Module I	Mrs. G. Suvarna Lakshmi
8.	27-01-2024	SATURDAY	2.00 PM -3.00 PM	Module I	Mrs. G. Suvarna Lakshmi
9.	27-01-2024	SATURDAY	3.00 PM -4.00 PM	Module I	Mrs. G. Suvarna Lakshmi
10.	02-02-2024	FRIDAY	4.00 PM -5.00 PM	Module I	Mrs. G. Suvarna Lakshmi
11.	03-02-2024	SATURDAY	2.00 PM -3.00 PM	Module I	Mrs. G. Suvarna Lakshmi
12.	03-02-2024	SATURDAY	3.00 PM -4.00 PM	Module II	Mrs. G. Suvarna Lakshmi
13.	09-02-2024	FRIDAY	4.00 PM -5.00 PM	Module II	Mrs. G. Suvarna Lakshmi
14.	10-02-2024	SATURDAY	2.00 PM -3.00 PM	Module II	Mrs. G. Suvarna Lakshmi
15.	10-02-2024	SATURDAY	3.00 PM -4.00 PM	Module II	Mrs. G. Suvarna Lakshmi
16.	16-02-2024	FRIDAY	4.00 PM -5.00 PM	Module II	Mrs. G. Suvarna Lakshmi
17.	17-02-2024	SATURDAY	2.00 PM -3.00 PM	Module II	Mrs. G. Suvarna Lakshmi
18.	17-02-2024	SATURDAY	3.00 PM -4.00 PM	Module II	Mrs. G. Suvarna Lakshmi
19.	01-03-2024	FRIDAY	4.00 PM -5.00 PM	Module II	Mrs. G. Suvarna Lakshmi
20.	02-03-2024	SATURDAY	2.00 PM -3.00 PM	Module II	Mrs. G. Suvarna Lakshmi
21.	02-03-2024	SATURDAY	3.00 PM -4.00 PM	Module III	Mr. Pradeep H K
22.	02-03-2024	SATURDAY	4.00 PM -5.00 PM	Module III	Mrs. G. Suvarna Lakshmi





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23.	09-03-2024	SATURDAY	2.00 PM -3.00 PM	Module III	Mrs. G. Suvarna Lakshmi
24.	09-03-2024	SATURDAY	3.00 PM -4.00 PM	Module III	Mrs. G. Suvarna Lakshmi
25.	15-03-2024	FRIDAY	4.00 PM -5.00 PM	Module III	Mrs. G. Suvarna Lakshmi
26.	16-03-2024	SATURDAY	2.00 PM -3.00 PM	Module III	Mrs. G. Suvarna Lakshmi
27.	16-03-2024	SATURDAY	3.00 PM -4.00 PM	Module III	Mrs. G. Suvarna Lakshmi
28.	22-03-2024	FRIDAY	4.00 PM -5.00 PM	Module III	Mrs. G. Suvarna Lakshmi
29.	23-03-2024	SATURDAY	2.00 PM -3.00 PM	Module III	Mrs. G. Suvarna Lakshmi
30.	23-03-2024	SATURDAY	3.00 PM -4.00 PM	Module III	Mrs. G. Suvarna Lakshmi
31.	30-03-2024	SATURDAY	2.00 PM -3.00 PM	Module III	Mrs. G. Suvarna Lakshmi
32.	30-03-2024	SATURDAY	3.00 PM -4.00 PM	VALEDICTORY	Dr. Padmaa. M. Paarakh Dr. Jyoti Shrivasthava

COORDINATOR

Mrs. G. Suvarna Lakshmi

Dr. Jyoti Shrivastava

Dr. Padmaa M. Paarakh





### The Oxford College of Pharmacy

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# COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24 (Course Code: QMMC)

#### COURSE OUTCOME REPORT

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru-560068, completed a Quantum Mechanics in Medicinal Chemistry 2023-24 (Course Code: QMMC). 24 students had registered for the course which was conducted for 30 hours. The outcome of the course was to understand the fundamental concepts of quantum mechanics such as quantum waves & quantum states and their relevance to the chemical systems.

#### Course Outcome:

At the end of this course students were able to

- Understand the quantum mechanics in reaction mechanisms, drug development in at quantum level and reaction kinetics.
- Understand the use of quantum mechanics to explain drug-receptor interactions, molecular docking, and how electronic structure influences the binding affinities of drug candidates.
- To promote interdisciplinary thinking by linking quantum mechanics, organic chemistry, and pharmacology for a holistic understanding of molecular-level phenomena in medicinal chemistry.

The students were satisfied and were keen to attend such programs in future.

CO-ORDINATOR

Mrs. G. Suvarna Lakshmi

Dr. Jyoti Shrivastava

Dr. Padmaa M. Paarakh

Oxford
COLLEGE OF PHARMACY



### The Oxford College of Pharmacy

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## COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24 (Course Code: QMMC)

#### COURSE COMPLETION REPORT

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bangalore, conducted a course on 'Quantum Mechanics In Medicinal Chemistry' (Course Code: QMMC) for the academic year 2023-24. This course helps the students to understand the fundamental concepts of quantum mechanics such as quantum waves & quantum states, and their relevance to the chemical systems. The course explores the quantum mechanics in reaction mechanism, drug development in at quantum level and reaction kinetics.

The course commenced with an inaugural function, beginning with a welcome address by the Principal, Dr. Padmaa M. Paarakh. The event was held in Room No. 505, and all participants were greeted by Mrs. G. Suvarna Lakshmi, the Course Coordinator. Twenty-four students attended the session. Our Principal emphasized the importance of such courses, both in academics and for future career prospects. The inaugural function concluded with an introductory lecture by Dr. Jyoti Shrivastava, Head of the Department of Pharmaceutical Chemistry.

The course comprised a total of 30 hours, with each session lasting two hours, conducted after regular college hours. The syllabus was divided into three modules. Upon the completion of each module, an internal assessment was conducted, followed by a comprehensive test at the end of the course.

After each module, students were evaluated through a set of questionnaires. The results from the assessments for all four modules indicated that approximately 55.8% of students achieved Grade A in all the tests, followed by 31.5% who earned Grade B, 10.2% who scored Grade C, and 2.5% who received Grade D.

The students' performance in the tests was outstanding, with about fifty percent securing excellent grades across all evaluations. The students displayed keen interest in attending and actively engaging with the interactive sessions conducted throughout the course.

The valedictory function was conducted at the end, and the enrolled students were awarded their course completion certificates by the Principal. Dr. Jyoti Shrivastava praised the students' enthusiasm throughout the course and also thanked the Course Coordinator, Mrs. G. Suvarna Lakshmi, for





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organizing it. She expressed gratitude to our Chairman, Dr. Narasimha Raju Garu, for providing excellent infrastructure to support such programs. On behalf of the department, Dr. Jyoti Shrivastava also promised to conduct similar courses in the future.

CO-ORDINATORS

Mrs. G. Suvarna Lakshmi

Dr. Jyoti Shrivastava

Dr. Padmaa M. Paarakh





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#### COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24

(Course Code: QMMC) Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7,	8	9	10	11	12	13	14	15
110	Date of the Class	05/01	06/01	06/01	12/01	19/01	2%	20/1	27/01	27/01	02/02	03/02	09/02	10/2	10/02	6/02
1	Varsha M	W.	D.P.	190	190	00	20	90	190	Q.O	100	0.0	100	M	190	91
2	Abhirami P Pillai	NED	VD.	APP	Do	APO	M	V.	100	XPb	SP	ND.	TO	MA	JB	XP
3	Afrah fathima	A	A	A	A	1	A	A	1	A	A	4	A	A	A	A
4	Aijinghun umsong	A	A	*	A	A	2	8	A	80	A	00	H	2	4	20
5	Akshaya s	A	AR	梅	AB	At	Ate	AX	AL	ALL	Ab	Atro	AB	4	AB	AS
6	Amit kumar jena	Am	am	Q.h.	A.	am	@m	Am	Am	Am	Am	Am	Am	Aho	An	A
7	Arushi Nair	المح	di	040	And	Al	40	1.0	AN	A	A	and	An.	al	And	An
8	Bhavana M Reddy	B	3	B	8	B	B	B	BY	B	B	BY	В	B	B	B
9	Harshitha G S	B	B	9	8	Pa	PB	Pa	B	Q.	(Pa)	8	9	B	8	Pa
10	Hashuba N	-	pashula	_		Hashubs	Hashub	Hashuba		Hashib	Hashub	Hashuka	Hoshida	Hashidas	Machoba	Hashu
11	Heena K	Hew	Herra	Pona	Heus	House	Hern	Heur	Heen	Henn	Henr	Heen	Hoens	Here	Hem	Heens
12	Keerthi Reddy M									•			Keish	Coexti		Couch
13	Kiruba Evanjalin M	K1	til	KI.	10	KI	KI	kil	XII	Kil	K.L	kil	Kil	kil	KI	k:1
14	Mohammed Shadaah	NE	N	R	B	WE!	AD T	M	M	ME	NST	W.	ME	ME	ME	ME
15	Monish T	Dai	Many	Merry	Rous	Di	Many	Wary	Deris	Maria	Mi	mai	Mou	Man	Buil	man
16	Rahib S	Rotz	Poliz	Policy	Ring	Robin	Polis	Rohiz	Robin	Poliz	Bhiz	Polis	Rahij	Polis	Robi	Phi
17	Rakshitha K C	Raly	Rubul	Robert	Wedy.	Madel	Dobah	Black	Robert	Robeki	Dalay	Robert	Paluli	Babel	paledy	Rake
18	Sri Nilash Kumar	Si	Si	Sie	SIE	8×	Si	813	SM	82	SE	Sie	Sp	89	SE	SE
19	Uttara S	45	EF	45	OS	US	es	æ	CE	05	CK	25	85	45	or	4
20	Vedha Shree K S	WA	LINE	The	JA	That	Talk	THE	Like	Til	- LLA	That	Tim	The	SA	W
21	Vency V	190	192	19X	20	0	190	193	(P)	D	P	(2)	190	P	2	7
22	Vishwatheja B	13	B	V3	13	3	13	VB	B	圾	13	3	3	V3	VB	VB
23	Swarupam Sarkar	8	ba	6	En	\$8	Å.	6	8	\$10	E.	80	8	1	6	to
24	Sourashish Baidya (	20	Co d	8b	SB	80	BB 5	JB (	86	Carb C	-38	Sp	300	3/2	SPB	28
	SIGNATURE	L	6	1	K	6	F	\$	\$	\$-	1	1	2	\$	E	1



No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 ①: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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### **COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24**

(Course Code: QMMC) Attendance Statement

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
10	Date of the Class	7/02	17/02	01/6	02/03	02/3	02/03	09/03	9/03	63	16/03	22/03	23/	23/03	3%	30/3
	Varsha M	20	000	100	M	20	Man	200	100	120	as	100	200	100	920	A
2	Abhirami P Pillai	APO	APA	AR	A	NED	AP6	API	P	NDP	AD	AB	观	XID	APP.	A
3	Afrah fathima	A	A	A	A	A	A	A	A	1	A	A	A	A	A	A
4	Aijinghun umsong	26	Ab	dr	26	Ah	\$	Ah	06	Aj	46	80	est)	OB)	*	4
5	Akshaya s	NE	AK	AK.	14	A	AL	112	AL	AS	A	45	AŁ	#	AF	Ab
6	Amit kumar jena	Am	Am	Am	Am	Day.	am.	(A)M	an	An.	Am	Am	0m	Am	An	An
7	Arushi Nair	de	200	A	90	all	30	and	as	AD	And	del	Ad	And	0	10
8	Bhavana M Reddy	8	B	B	B	3	8	马	B	B	B	8	B	B	B	B
9	Harshitha G S	Re	Pal	B	Pa	B	· 82	8	P32	9	9	8	B	82	8	鱼
10	Hashuba N	Hashurk	-	Mashib	Hostus	Hashula	Hashud	Hashuk	Hashuk	Pashuba	Habrida	Washer	Hashule	Masky	flashubag	Hauku
11	Heena K	fue	Pen	Por	Her	affens	Heera	Here	Hera	Heine	Peus	Reus	Heins	Here	Hein	Hers
12	Keerthi Reddy M	Ceuth				Kun						1	Karth	1	Cerch	Keurh
13	Kiruba Evanjalin M	_	kid	KY	KI	kil	.Ki	Kil	Kil	KI	Kif	Kif	kil	村	kil.	KS
14	Mohammed Shadaah	NB	ME	MB	N	AR	NB	MB	ME	NB	MB	NE	MB	(Mg)	WE	ME
15	Monish T	Maria	Mon	man	THE .	in main	Tour	mon	mari	me	Weni	Meie	Mary	men	Meni	W.
16	Rahib S	Roliz	Roly	a Adig	Roly		Pair		Pohy		1 69	Polis	Robio	Palis	Phi	Poly
17	Rakshitha K C	Robel	Deleg	Make	Poly	Bob	NO.	Polet	Bally	Bally	Politi	Robert	Poleul	Ralul	Polos	Pole
18	Sri Nilash Kumar	Sa	89	Si	18	S	S	Sp	Si	Sp	So	SH	80	Sn	Si	S
19	Uttara S	50	49	Wid	08	地	45	46	8	20	45	ttá	65	63	05	4
20	Vedha Shree K S	Ship	Jok	The	July	Jak .	Shake !	1 shot	Auk	The	The	- Jul	W	Shal	July .	Les
21	Vency V	192	6	0	10	10	0	- 19	1	192	10	لير	1	192	100	10
22	Vishwatheja B	1/3	13	13		- VB	-	13	B	V3	13	13	13	V3	V3	V3
23	Swarupam Sarkar	85	& Sep	· Sy	Sa	\$5	\$	\$	de	\$	6	00	80	\$3	6	\$
24	Sourashish Baidya	SPB	Sp	(31)	(3)	SX	38	Sab	(89)	SSIB	34	Sh	313	(3/8	Sign	(80)
	SIGNATURE	\$	\$	\$	8	\$	\$	8	\$	18	\$	1	\$	1	\$	-8





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### COURSE ON QUANTUM MECHANICS IN MEDICINAL CHEMISTRY 2023-24

(Course Code: QMMC)
Attendance Statement

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
10	Date of the Class	7/02	17/02	°1/6	02/03	02/3	02/03	09/03	09/03	63	16/03	24/03	23/3	23/4	30/3	30/03
l	Varsha M	100	00	20	M	20	RA	200	100	120	app	100	200	100	80	Q
2	Abhirami P Pillai	NED	ABO	M	AB	NED	APO	SP	Ja	NEP	AR	AB	M	XH	APP.	A
3	Afrah fathima	A	A	A	A	A	A	A	A	1	A	A	A	A	A	A
4	Aijinghun umsong	26	An	dn	26	Ah	1	Ah	do	Aj	46	80	94)	as .	*	4
5	Akshaya s	NE	AK	AX	H	Ab	AL	412	AL	AS	A	45	AŁ	1	AL	4
6	Amit kumar jena	Am	Am	Am	Am	( Car	an.	(A)m	An	An.	Am	Am	0m	Am	An	Ar
7	Arushi Nair	all	M	A	90	d	20	AA	as	AD	And	del	Ad	And	00	de
8	Bhavana M Reddy	8	Be	B	B	3	8	马	B	B	B	8	B	B	B	3
9	Harshitha G S	R	Pal	P	Pa	P3	<u>&amp;</u>	8	Pa	<u>B</u>	90 <u>1</u>	8	B	82	92	B
10	Hashuba N	Hestenda	Herber	Nashib	House	Harrie	Hall	Hashuk	Hashuk	Hashuba	Halande	Herlanks	Hashida	Howkey	Hashing	Hash
11	Heena K	fue	Peu	Pero	Her	Heus	Heera	Here	Herra	Heene	Pena	Leur	Herro	Here	Here	Her
12	Keerthi Reddy M	Ceuth	Cert	Cert	Next	Keek	100					la M	Karth	Keuthi	Certh	Cert
13	Kiruba Evanjalin M	K.A	Kid	KY	KI	Kil	.Ki	Kil	kil	KI	kif	Kif	kil	村	kil.	KI
14	Mohammed Shadaah	NB	ME	MB	M	AR	NB	MB	MB	NB	(MB)	NE	MB	(VB	WB	MB
15	Monish T	Poris	Mari	man	WWW.	ingrain	and i	m	mari	me	Merin	Deie	Marin	men	Meni	W.
16	Rahib S	Roliz	Roly	adiz	Roly	Pohis		Ruis	Pohy	-		Polis	Robio	Palin	Phi	Poly
17	Rakshitha K C	Robel	للعلعلا	Make	FORM	Boles	Robi	Probet	Bally	TO LE	Politi	Robert	Poled	Releig	Pobel	Pale
18	Sri Nilash Kumar	Say	81	Si	S	8	S	Sp	Si	Sp	So	SE	80	Sn	Si	8
19	Uttara S	50	49	4H	08	#	45	49	68		45	tta	ELS	63	05	#
20	Vedha Shree K S	Shak	Jok	The	July	The	Shake	shot	- JUA	The	Ship	- YWA	W	Shall	Sul	لملا
21	Vency V	9	0	0	P	10	0	.0	1	192	0	لير	1	192	100	0
22	Vishwatheja B	13	13	V3	B	13	-	13	13	V3	13	13	13	V3	V3	V3
23	Swarupam Sarkar	85	80	Sy	Sa	ts.	\$3	A.	80	8	6	1	-	\$8	1	\$
24	Sourashish Baidya	SB	30	33	Sh	SX	38	\$10	189	550	311	Sh	313	(3/8	313	80
	SIGNATURE	\$	\$	\$	8	\$	\$	\$	\$	\$	\$	\$	\$	1	\$	-6







# THE OXFORD COLLEGE OF PHARMACY

#6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Sourashish Batdya of Il Pharm D year has undergone an course on "Quantum Mechanics in Medicinal Chemistry" held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

HOD

P Pod us PRINCIPAL

Mrs. G. SUVARNA LAKSHMI Dept of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. JYOTI SHRIVASTAVA
Dept of Pharmaceutical Chemistry
The Oxford College of Pharmacy





# THE OXFORD COLLEGE OF PHARMACY

# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. <u>Nedha Shree RS</u> of <u>Th. Pharm D</u> year has undergone an course on "Quantum Mechanics in Medicinal Chemistry" held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

HOD

P. Pad us PRINCIPAL

Mrs. G. SUVARNA LAKSHMI Dept of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. JYOTI SHRIVASTAVA
Dept of Pharmaceutical Chemistry
The Oxford College of Pharmacy





# THE OXFORD COLLEGE OF PHARMACY

# 679, IST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to	certify that	Mr./Ms.	Monish .T	of TIL	Phone D
year has	undergone	an course	on "Quantum	Mechanics in	Medicinal
Chemistry	" held at the	e Departme	nt of Pharmaceut	ical Chemistry,	The Oxford
College of	Pharmacy, E	Bengaluru,	Karnataka for the	academic year 2	2023-2024.



HOD

P Pod cue

Mrs. G. SUVARNA LAKSHMI Dept of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. JYOTI SHRIVASTAVA
Dept of Pharmaceutical Chemistry
The Oxford College of Pharmacy





# THE OXFORD COLLEGE OF PHARMACY

#6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Akshaya S of M. Pharm. D year has undergone an course on "Quantum Mechanics in Medicinal Chemistry" held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

HOD

P. Pad wo PRINCIPAL

Mrs. G. SUVARNA LAKSHMI
Dept of Pharmaceutical Chemistry
The Oxford College of Pharmacy

Dr. JYOTI SHRIVASTAVA
Dept of Pharmaceutical Chemistry
The Oxford College of Pharmacy





# THE OXFORD COLLEGE OF PHARMACY

#6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Horshitha. G.S. of III. Pharm. D. year has undergone an course on "Quantum Mechanics in Medicinal Chemistry" held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE COORDINATOR

HOD

P. Padate
PRINCIPAL

Mrs. G. SUVARNA LAKSHMI
Dept of Pharmaceutical Chemistry
The Oxford College of Pharmacy

Dr. JYOTI SHRIVASTAVA
Dept of Pharmaceutical Chemistry
The Oxford College of Pharmacy



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#### COURSE ON CHEMICAL HAZARDS AND THEIR CONTROL

(COURSE CODE: CHC 2023-24)

NOTICE

Date: 20-12-2023

To

Notice Board

To be read in the class rooms

Course Coordinator-Mr. Akshay C,

To be filed

The Oxford College of Pharmacy, Bengaluru introduces 30 hours course on chemical hazards and their control for the academic year 2023-24, for the benefit of B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 5<sup>th</sup> Jan 2024. The class will be conducted every Friday and Saturday after the college hours. The eligibility criteria include students pursuing Pharmacy degree, that is B pharm. The V B Pharm students are instructed to enroll their name with Mr. Akshay C, course co-ordinator on or before 1<sup>st</sup> Jan 2024.

CO-ORDINATO

Mr. Akshay C

HOD

Dr Jyoti Shrivastava

PRINCIPAL

Dr Padmaa M Paarakh

### **Organizing Committee**

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD	Dr Jyoti Shrivastava Department of Pharmaceutical Chemistry TOCP, Bengaluru.
Program Coordinato r	Mr. Akshay C Department of Pharmaceutical Chemistry TOCP, Bengaluru.

### For Further Information Contact

### Mr. Akshay C

Assistant Professor
Department of Pharmaceutical
Chemistry
TOCP, Bengaluru
Email: akshaybkn88@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D. Pharm B. Pharm, M Pharm, Pharm D and Pharm D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., V Sem Bpharm

#### Course

on

# "CHEMICAL HAZARDS AND THEIR CONTROL"



### Organized by

### THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutical Chemistry, 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

**Duration: 30 hours** 

Late date for Registration:-1/1/2024

Date of commencement:5/1/2024

Date of examination: After completion

of 30hours classes

### REGISTRATION

Registration	NIL .
Fees	It is a free course offered by
	The Oxford College of
	Pharmacy Bengaluru-68
Contact	
person for	Mr Akshay C
registration	7025784594

### **STRUCTURE**

- Course will be conducted for total 30 hours after the college hours.
- Course will be conducted every Friday and Saturday.

### **COURSE DESCRIPTION**

The Department of Pharmaceutical Chemistry, TOCP, Bangalore introduces a thirty hours course on CHEMICAL HAZARDS THEIR CONTROL (Course Code: CHC 2023-24). This course offers the basic knowledge about chemical hazard and their control.

### OBJECTIVES OF PROGRAM

- The course provides the knowledge on various types of chemical hazards, including physical, health, and environmental risks.
- Analyze chemical exposure scenarios to evaluate risks and determine necessary precautions..
- This certificate course will help the students comprehensive emergency response strategies for incidents involving hazardous chemicals, including spill response and evacuation procedures

### **FINAL ASSESSMENT**

Final exams will be conducted at the end of the syllabus.

### **DURATION**

☐ Thirty hours.

### **OUTCOME**

- Recognize different types of chemical hazards include physical, health and environmental.
- Evaluate potential health impacts and safety concerns from chemical exposure.
- Recommend safety protocols to minimize risks associated with chemical use
- Create plans for chemical spills and exposures, including first aid procedures

### REGISTRATION PROCESS

 Contact your course coordinators and register.



### The Oxford College of Pharmacy

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#### COURSE ON CHEMICAL HAZARDS AND THEIR CONTROL

(Course Code: CHC 2023-24)

#### List of Students

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1	Owais Nazeer	The NE
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4	Ramaswamy Satheesh	Course to it.
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CO-OR

Mr. Akshay C

Dr Jyoti Shrivastava

Dr Padmaa M Paarakh

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru -560 068 D: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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### COURSE ON CHEMICAL HAZARDS AND THEIR CONTROL

(Course Code: CHC 2023-24) SESSION PLAN

SL.NO	DATE	DAY	SESSION PLA TIME	MODULE	FACULTY
1	5-1-24	FRIDAY	4:30-6:30 PM	INAUGURATION AND	Akshay C
				MODULE I	
2	6-1-24	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
3	12-1-24	FRIDAY	4:30-5:30 PM	MODULE I	Akshay C
4	19-1-24	FRIDAY	4:30-5:30 PM	MODULE I	Akshay C
5	20-1-24	SATURDAY	4:30-5:30 PM	MODULE I	Akshay C
6 .	27-1-24	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
7	2-2-24	FRIDAY	4:30-5:30 PM	MODULE I	Akshay C
8	3-2-24	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
9	9-2-24	FRIDAY	4:30-5:30 PM	MODULE I	Akshay C
10	10-2-24	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
11	16-2-24	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C
12	17-2-24	SATURDAY	2:00-3:00 PM	MODULE II	Akshay C
13	23-2-24	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C
14	24-2-24	SATURDAY	2:00-3:00 PM	MODULE II	Akshay C
15	1-3-24	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C
6	2-3-24	SATURDAY	2:00-3:00 PM	MODULE II	Akshay C
7	2-3-24	SATURDAY	3:00-4:00 PM	MODULE II	Akshay C
8	9-3-24	SATURDAY	2:00-3:00 PM	MODULE II	Akshay C
9	9-3-24	SATURDAY	3:00-4:00 PM	MODULE II	Akshay C
0	15-3-24	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C



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21	16-3-24	SATURDAY	2:00-3:00 PM	MODULE III	Akshay C
22	16-3-24	SATURDAY	3:00-4:00 PM	MODULE III	Akshay C
23	30-3-24	SATURDAY	2:00-3:00 PM	MODULE III	Akshay C
24	30-3-24	SATURDAY	3:00-4:00 PM	MODULE III	Akshay C
25	5-4-24	FRIDAY	4:30-5:30 PM	MODULE III	Akshay C
26	6-4-24	SATURDAY	2.00-3:00 PM	MODULE III	Akshay C
27	12-4-24	FRIDAY	4:30-5:30 PM	MODULE III	Akshay C
28	13-4-24	SATURDAY	2.00-3:00 PM	MODULE III	Akshay C
29	13-4-24	SATURDAY	3:00-4:00 PM	MODULE III	Akshay C
30	19-4-24	FRIDAY	4:30-5:30 PM	MODULE III	Akshay C
31	20-4-24	SATURDAY	2.00-3:00 PM	Valedictory	Valedictory

CO-ORDINATOR

Akshay C

HOD

Dr Jyoti shrivastava

PRINCIPAL

Dr Padmaa M. Paarakh





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# COURSE ON CHEMICAL HAZARDS AND THEIR CONTROL

(Course Code: CHC 2023-24) SYLLABUS

Sl No	MODULE	TOPIC
		Introduction to Chemical Hazards
		Types of hazards: physical, health, and environmental
		Chemical Properties and Toxicology
• •		Understanding chemical properties: volatility, flammability, reactivity
. 1		Regulatory Frameworks
	Module I	Overview of OSHA, EPA, and international regulations
		Understanding Material Safety Data Sheets
		Hazard Identification Techniques
		Techniques for identifying hazards in workplaces and laboratories
		Principles of effective risk communication
		Control Measures
		Designing safe workspaces and processes
		Importance of policies, procedures, and training
	Module II	Developing Standard Operating Procedures
П		Personal Protective Equipment
7	_	Types of PPE and their applications
		Proper use and maintenance of PPE
		Hazardous Waste Management
		Regulations governing hazardous waste
		Safe disposal methods and waste minimization strategies
		Laboratory Safety Practices
		Best practices for laboratory safety
ш	Module III	Fire and Explosion Hazards
		Understanding fire triangle and explosion risks
		Fire prevention and control measures
		International Chemical Safety Standards
-		Sustainable Chemical Management

CO-ORDINATO)

Mr Akshay C

HOD GV

Dr Jyoti Shrivastava

PRINCIPAL

Dr Padmaa M Paarakh





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#### COURSE ON CHEMICAL HAZARDS AND THEIR CONTROL

(Course Code: CHC 2023-24)

#### OUTCOME REPORT

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru- 560068, had completed course in CHEMICAL HAZARDS AND THEIR CONTROL 2023-24 (Course Code: CHC 2023-24). 30 students were registered and the course was conducted for 30 hours. This course trained registrants to understanding Chemical Hazards. The course provided knowledge on chemical hazards, including physical, health, and environmental risks associated with different substance.

Outcomes: At the end of this course students were able to

- Recognize different types of chemical hazards include physical, health and environmental.
- Evaluate potential health impacts and safety concerns from chemical exposure.
- · Recommend safety protocols to minimize risks associated with chemical use
- Create plans for chemical spills and exposures, including first aid procedures

The students were satisfied and were keen to attend such programs in future.

CO-ORDINATOR

Akshay C

HOD

Dr Jyothi Shrivastava

Dr Padmaa M. Paarakh

Oxford

COLLEGE OF PHARMACY

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# COURSE ON CHEMICAL HAZARDS AND THEIR CONTROL (Course Code: CHC 2023-24) Completion Report

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bangalore, conducted a course on Chemical hazard and their control (Course Code: CHC 2023-24) for the academic year 2023-24. The course was intended to impart knowledge to the students about the Chemical hazards to benefit them understanding the importance of controlling chemical hazard.

The course was started with a inaugural function by welcoming the Principal Dr. Padmaa M Paarakh. The function was conducted at seminar room. All the participants were introduced by Mrs Pradeepa Prasad, Assistant professor Department of Pharmaccutical chemistry. 30 students joined for the function. The inaugural function has been summed up with the introductory lecture of course coordinator Mr. Akshay C.

Total 30 hours course had been conducted after the college hours on Friday and Saturday. Total 30 students were enrolled for this course.

The syllabus of the course had been divided into three modules. After the completion of each modules an internal assessment was conducted and overall test was conducted. The results of module I, II, III were analysed. Approximately 60 % students scored grade A (marks percentage-95-100%) in all the tests followed by 20 % who scored grade B (marks percentage-90-94%) and 20% scored grade C (marks percentage-85-80 %) and 0% Scored D (marks percentage-80-84%). The performance of the students in the tests were found good. About eighty percentage of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 20-4-24 and the participation certificate were distributed to all 30 students by the Principal Dr. Padmaa M. Paarakh. Dr. Nagalakshmi, thanked Principal madam and management for providing best infrastructure for carrying out such courses. On behalf of department, she promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bengaluru had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmaceutical Chemistry and the course coordinator Mr Akshay C for successful completion of the course.

CO-ORDINATOR

Mr. Akshav C

HOD

Dr Jyoti Shrivastava

PRINCIPAL PRINCIPAL

Dr Padmaa M Paarakh

Oxford collect of Phalmacy

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#### (Course Code: CHC 2023-24)

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### COURSE ON CHEMICAL HAZARDS AND THEIR CONTROL

### (Course Code: CHC 2023-24)

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# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. <u>Prince kushwaha</u> of <u>Beham III"</u> year has undergone an Add-on course Chemical hazards and their control held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATIOR

HOD

P. Pad ma

Mr AKSHAY C
Dept of Pharma Chemistry
The Oxford College of
Pharmacy

Dr. JYOTI SHRIVASTAVA Dept of Pharma Chemistry The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Rajanya Adhi Kary of Beharm III year has undergone an Add-on course Chemical hazards and their control held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

HOD

PRINCIPAL

Mr AKSHAY C Dept of Pharma Chemistry The Oxford College of Pharmacy Dr. JYOTI SHRIVASTAVA
Dept of Pharma Chemistry
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. <u>Ramaswamy Satheesh</u> of <u>B.pharm In Year</u> has undergone an Add-on course Chemical hazards and their control held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

HOD

P. Paduo PRINCIPAL

Mr AKSHAY C
Dept of Pharma Chemistry
The Oxford College of
Pharmacy

Dr. JYOTI SHRIVASTAVA
Dept of Pharma Chemistry
The Oxford College of
Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

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has undergone an Add-on course Chemical hazards and their control held at the
Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy,
Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

HOD 4

P. Paduo PRINCIPAL

Mr AKSHAY C
Dept of Pharma Chemistry
The Oxford College of
Pharmacy

Dr. JYOTI SHRIVASTAVA Dept of Pharma Chemistry The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Rangith Kumar. of Behave year has undergone an Add-on course Chemical hazards and their control held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

**COURSE CO-ORDINATOR** 

HOD

PRINCIPAL

Mr AKSHAY C Dept of Pharma Chemistry The Oxford College of Pharmacy

Dr. JYOTI SHRIVASTAVA Dept of Pharma Chemistry The Oxford College of Pharmacy



#### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON CHEMINFORMATICS AND MOLECULAR MODELING

(Course Code: CMM 2023-24)

#### NOTICE

Date: 04-07-2024

To

**Notice Board** 

To be read in the class rooms

Course Coordinator- Dr. G. Nagalakshmi

To be filed

The Oxford College of Pharmacy, Bengaluru introduces 30 hours course on Cheminformatics and Molecular Modeling for the academic year 2023-24, for the benefit of B.Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 11<sup>th</sup> July 2024 and will be conducted after the college hours on Thursday, Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is B.Pharm students. Interested students can enroll with Dr. G. Nagalakshmi, course coordinator on or before 08<sup>th</sup> July 2024.

G. Nagalakshui Course Coordinator

Dr. G. Nagalakshmi

HOD

Dr. A.R. Mahesh

Dr. Padmaa M. Paarakh



#### **Organizing Committee**

Chairman	Dr. Padmaa M Paarakh Principal, TOCP, Bengaluru.
HOD	Dr. A.R. Mahesh, Department of Pharmaceutical Chemistry, TOCP, Bengaluru.
Program Coordinator	Dr. G. Nagalakshmi Department of Pharmaceutical Chemistry. TOCP. Bengaluru.

#### For Further Information Contact

Dr. G.Nagalakshmi
Associate Professor
Department of Pharmaceutical
Chemistry
TOCP, Bengaluru.
Email:
nagalakshmipharma@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug Control Board, Karnataka respectively, Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e.,B.Pharm
Students from Second year B.Pharm

# Course On "CHEMINFORMATICS AND MOLECULAR MODELING"



Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutical Chemistry, 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

#### Important Dates

Duration: 30 hours

Last date for registration: 08/07/2024

Date of commencement: 11/07/2024

Planned Examination: After completion

of 30 hours classes.

### REGISTRATION

Registration
Fees

It is a free course offered by The Oxford College of Pharmacy Bengaluru-68

Contact
person for registartion

NIL

It is a free course offered by The Oxford College of Pharmacy Bengaluru-68

Dr. G.Nagalakshmi 8220611134

#### STRUCTURE

- Course will be conducted for total 30 hours after the college hours.
- Course will be conducted through Offline mode.
- · Every Thursday, Friday & Saturday.

#### COURSE DESCRIPTION

The Department of Pharmaceutical Chemistry, TOCP, Bengaluru-560068 introduces a Thirty hours course on Cheminformatics and Molecular Modeling (Course Code: CMM 2023-24). This course offers the basic knowledge about the Cheminformatics applications.

# OBJECTIVES OF PROGRAM

- This course will help the students in understanding the importance of primary and secondary structures of proteins with stereochemistry, retrieve chemical information from structural and visualization tools.
- The course is designed to provide comprehensive knowledge to make students familiar on existing databases and their application and give a clear view on algorithms which is involved in biomolecular networks.

#### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus.

#### DURATION

Thirty hours

#### OUTCOME

- This course develop applications to solve biological problems by utilizing the cheminformatics algorithms and programming languages.
- Students will develop knowledge and skills to analyses and interpret biological data for research requirements.
- Students will develop good scientific communication skills.
- Students also get knowledge of the tools, frameworks, and libraries for cheminformatics applications.

#### REGISTRATION PROCESS

☐ Contact your course coordinators and register.



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#### COURSE ON CHEMINFORMATICS AND MOLECULAR MODELING

(Course Code: CMM 2023-24) SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	11-07-2024	Thursday	4.30-5.30	Inauguration and Module-1	Dr. G. Nagalakshmi
2	12-07-2024	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
3	13-07-2024	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
4	18-07-2024	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
5	19-07-2024	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
6	20-07-2024	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
7	25-07-2024	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
8	26-07-2024	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
9	27-07-2024	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
10	01-08-2024	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
11	02-08-2024	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
12	03-08-2024	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
13	08-08-2024	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
14	09-08-2024	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
15	10-08-2024	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
16	16-08-2024	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
17	17-08-2024	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
18	22-08-2024	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
19	23-08-2024	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
20	24-08-2024	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
21	29-08-2024	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
22	30-08-2024	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi



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23	31-08-2024	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
24	05-09-2024	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
25	06-09-2024	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
26	12-09-2024	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
27	13-09-2024	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
28	14-09-2024	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
29	19-09-2024	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
30	20-09-2024	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
31	21-09-2024	Saturday	1.30-2.30	Valedictory	Valedictory
	24 25 26 27 28 29 30	24 05-09-2024 25 06-09-2024 26 12-09-2024 27 13-09-2024 28 14-09-2024 29 19-09-2024 30 20-09-2024	24 05-09-2024 Thursday 25 06-09-2024 Friday 26 12-09-2024 Thursday 27 13-09-2024 Friday 28 14-09-2024 Saturday 29 19-09-2024 Thursday 30 20-09-2024 Friday	24 05-09-2024 Thursday 4.30-5.30 25 06-09-2024 Friday 4.30-5.30 26 12-09-2024 Thursday 4.30-5.30 27 13-09-2024 Friday 4.30-5.30 28 14-09-2024 Saturday 1.30-2.30 29 19-09-2024 Thursday 4.30-5.30 30 20-09-2024 Friday 4.30-5.30	24       05-09-2024       Thursday       4.30-5.30       Module-2         25       06-09-2024       Friday       4.30-5.30       Module-2         26       12-09-2024       Thursday       4.30-5.30       Module-2         27       13-09-2024       Friday       4.30-5.30       Module-2         28       14-09-2024       Saturday       1.30-2.30       Module-2         29       19-09-2024       Thursday       4.30-5.30       Module-2         30       20-09-2024       Friday       4.30-5.30       Module-2

G. Nagalakshmi Course Coordinator HOD

PRINCIPAL

Dr. G. Nagalakshmi

Dr. A.R. Mahesh

Dr. Padmaa M. Paarakh





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#### COURSE ON CHEMINFORMATICS AND MOLECULAR MODELING

(Course code: CMM 2023-24)

#### **SYLLABUS**

MODULE	TOPIC						
Introduction	Introduction to the Program						
Module 1: Cheminformatics and	Molecular Numerology						
Molecular Modeling	Graph theory and molecular numerology.						
	Logic, sets and functions.						
	Algorithms, integers and matrices.						
150	Mathematical reasoning, induction and recursion.						
	Counting; graphs, trees and sets, basic probability and statistics.						
	Markov processes. Application: Biomolecule Networks, Metabolic Pathways.						
	Stereochemistry						
	Basic Stereochemistry, Amino acids and Proteins and Properties.						
	pKa, pH and ionization of acids and bases.						
	Protein structure - Primary structure, Secondary structure - helix & sheet.						
	Tertiary structure.						
	Quaternary structure.						
	covalent and non-covalent forces that maintain structures.						
	Introduction to drug action, pro drug design and applications.						
	Chemical Information						
	History of scientific information communication-chemical literature-chemical information-chemical information						
	search-chemical information sources-chemical name and formula searching-analytical chemistry-chemical history-						





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	biography-directories and industry sources.
	Chemical Structure: Databases, Formats, Drawing Tools and Structure Visualizations.
Module 2: Cheminformatics and	Database Management
Molecular Modeling	Introduction to data and Database.
	Data Type, Experimental sources of biological data.
	Publicly available databases.
	Database Management.
	Gene expression monitoring.
	Genomics and Proteomics.
	Metabolomics.
	Visualization of sequence data.
	Visualization of structures using Rasmol or Pymol of CHIME.
	Genetic basis of disease.
	Personalised medicine and gene-based diagnostics.
	Structure-Based Drug Design
	Introduction to drugs, Chemical structural data files.
	Structure-based drug design.
	Protein structure.
	Drug action & enzymes. Drug action & receptors.

G. Nagalakshmi Course Coordinator

Dr. G. Nagalakshmi

Dr. A.R. Mahesh

Dr. Padmaa M. Paarakh

Oxford

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#### COURSE ON CHEMINFORMATICS AND MOLECULAR MODELING

(Course Code: CMM 2023-24)

#### OUTCOME REPORT

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru-560068 had completed Course on CHEMINFORMATICS AND MOLECULAR MODELING (Course Code: CMM 2023-24). 20 students were registered and the course was conducted for 30 hours. This course trains registrants to impart focuses on understanding the importance of primary and secondary structures of proteins with stereochemistry, retrieve chemical information from structural and visualization tools, familiar on existing databases and their application and give a clear view on algorithms which is involved in biomolecular networks.

Outcomes: At the end of this course students were able to

- Develop applications to solve biological problems by utilizing the cheminformatics algorithms and programming languages.
- Develop knowledge and skills to analyses and interpret biological data for research requirements.
- Develop good scientific communication skills.
- Get knowledge of the tools, frameworks, and libraries for cheminformatics applications.

The students were satisfied and were keen to attend such programs in future.

G. Nagalakshun' Course Coordinator

Dr. G. Nagalakshmi

HOD

Dr. A.R. Mahesh

PRINCIPAL

Dr. Padmaa M. Paarakh



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#### COURSE ON CHEMINFORMATICS AND MOLECULAR MODELING

(Course Code: CMM 2023-24)

#### COMPLETION REPORT

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, conducted a course on Cheminformatics and Molecular Modeling (Course Code: CMM 2023-24) for the academic year 2023-24. The course was intended to impart focus on understanding the importance of primary and secondary structures of proteins with stereochemistry, retrieve chemical information from structural and visualization tools, familiar on existing databases and their application and give a clear view on algorithms which is involved in biomolecular networks.

The course was started with an inaugural function by welcoming the Principal Dr. Padmaa M. Paarakh. The function was conducted at Room No-507 and all the participants were introduced by Course Coordinator Dr. G. Nagalakshmi. Total 20 students joined the program. The inaugural function has been summed up with the introductory lecture of course coordinator Dr. G. Nagalakshmi.

A total of 30 hours course had been conducted after the college hour on Thursday, Friday & Saturday. Total 20 students were enrolled for this course.

The syllabus of the course had been divided into two modules. After the completion of each module an internal assessment was conducted and overall test was conducted after the completion of the course. The results of module I, II, and overall were analysed. Approximately 73 % students scored grade A (marks percentage-95-100%)) in all the tests followed by 23 % who scored grade B (marks percentage-90-94%) and 6.3 % scored grade C (marks percentage-85-89%) and 0 % scored grade D (marks percentage-80-84%). The performance of the students in the tests were found good. About ninety six percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes.

The valedictory function has been conducted on 21/09/2024 and the course participation certificate were distributed to all 20 students by the Principal Dr. Padmaa M.Paarakh and Head of the Department Dr. A.R. Mahesh. Dr. A.R. Mahesh, thanked Principal madam and management for providing best infrastructure for carrying out such courses. On behalf of department, he promised to carry out such courses in future also.

The guest of the valedictory function, Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmaceutical Chemistry and the course coordinator Dr. G. Nagalakshmi for successful completion of the course.

G. Nagalakshmi Course Coordinator

Dr. A.R. Mahesh

Dr. Padmaa M. Paarakh

Dr. G. Nagalakshmi

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#### COURSE ON CHEMINFORMATICS AND MOLECULAR MODELING

(Course Code: CMM 2023-24)

#### **Attendance Statement**

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	11/1	12/1	13/7	18/7	19/1	20/7	25/7	26/7	27/7	01/8	02/8	03/8	08/8	09/8	10/8
1	MANASA S	MB	Ma	MIL	me	10	pan	MA	man	Man	med	MA	mo	med	vap	MA
2	MANIKYAM LIKHITH	No. 18	work	Monik		Mark	-			word	work	Manut	MORN	wasik	Mark	manik
3	MONISHA M	Meni	mari	Mari	Weri	mont	wani	moni	wan	mani	moni	moni	Mi	mond	mi	weni
4	NOOR AYESHA L	Me	Non	Man	Man	10,	NE	Nool	Non	Nool	Nool		Va	W-	-	Naos
5	PALASH MAITY	7068L	Pale	Palel	Polot	Pole	Paloh	Peld	Palel	Pale	Polsh	Palsh	PL	124	Tald	Pala
6	PRADEEP M	Dan	Dre	Ran	DM	PAN	PA	Dan	Par	Pw	Pac	Per	De	Du	720	Th
7	PRAJWAL B R	130	Pag	Dan	Page	Pra	Pan	780	200	Dea	200	Poo	Dog	Pen	Den	Don
8	RAGULNATH V	0	2	2	8	18	2	2	50	D	18	3	1	3	B	B
9 .	RAJESH NAIDU M	4	4	1	di	A	A	A.	to	*	X	*	1	4	¥~	d
10	RAVI RANJAN	2R	DE	RR	RR	Qe	RR	RR	RR	DR	Rb	QV2	DD.	02	00	00
11	RESHMA J	right	res	sul	resta	ud	rul	res	sen	rist	righ	rug	ruel	Rud	rul	311
12	ROHAN B	molan	Kohou	don	rober	die	thay,	1001	gut	frest	good	25	12	4	19	e,
13	ROOPA SHREE N	Rugh	R	Ros	Ros	Ray	Rog	Roo	Du	Ruy	Roy	Ros	Reg	PRI	Roy	Bei
14	S G SHREYA SHREE	She	In	Sh	sh	El	Sh	She	, She	she	She	She	Sh	gh	gle	de
15	SAGAR D	Zi	2	2m	2	20	4ay	21	Zġ	Eai	Sai	Sai	gai	9.	4:	9.
16	SAHIL	Salit	Palil	cohil	cohil	Sahir	Solil	sahil	Solvil	Sahil	calas	cahil	cohi	cohi	Solil	Cahil
17	SANNIDHI J KULKARNI	Stay	San	Song	Bay	8ag	Sarg	Ding	Some	Bang	-	Sage			-	Sau
18	SANTHOSH A	820	SA	SA	BA	SA	8A	SA	SA	SA	8#	CA	QA.	SA	CIA	06
19		a	NA	m	wo	NA	^	-	mo	Van	MA	CAGA	mo	-	24	821
20	SHAIK BRIZEES FATHIMA	do	No	sk	RB	et	sto	A	20	SIX	82	st	pet	s al	001°	86
	SIGNATURE	Gn	Gi	G.	6	G.	G.	G	G.	G.	G.	G	G.	G	G	G.



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#### COURSE ON CHEMINFORMATICS AND MOLECULAR MODELING

(Course Code: CMM 2023-24)

#### **Attendance Statement**

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Date of the Class	16/8	17/8	22/8	23/8	24/8	29/8	30/8	31/8	05/9	06/9	12/9	13/9	14/9	19/9	20/9
1	MANASA S	NO	100	Mo	+10	Moo		me	11/10	Me	we	134	M	Ide	NAL	Mo
2	MANIKYAM LIKHITH	1		Many	Mark	1	\	Yanik		Wani	pamil	- 1	May	Page	HAga	Mani
3	MONISHA M	Mons	Moni	Moni	Moni	Mini	Mari	Weni	Mani	Moni	Mm	Mani	10.	00.	Musi	Mon
4	NOOR AYESHA L	W.Y	Must	Ny.	1000	Nor	1020	Mod	1001	Nort	10t/	1207	W/W	N24/	Moni	Now
5	PALASH MAITY	Pa Gh	Paln	Pelsi	gey,	Pela	-	PaleL		Palsh	Palel	Palse	Ped	Dal.	Palel	Tola
6	PRADEEP M	Dan	Per	Dan	Dan	Der	Dan	Ren	Der	Rea	Pa	Ran	Ran	Pan	Dan	Den
7	PRAJWAL B R	Pego	132	Ba	Pros	Deal	Pars	Re11	Day	mi!	Danie	Da:	Bo	Don	Prair	D
8	RAGULNATH VC	Rox	Ry	Por	Fine	Q.	Duc	Dan		The state of the s	704	D	179	57	Di	Ta
9 .	RAJESH NAIDU M	do	Ø	Ah	da	A.	9h	Th	Am	The str	The ser	AL	An	de	di	de
10	RAVI RANJAN	PA	71	RI	20	RE	<b>3</b>	PR	PP	TER	RP	20	(Pa)	00	<b>320</b>	70
11	RESHMA J	great	- 84	Red	sel	210	NA	ul	MM	red	M	011	01	11	11	FR.
12	ROHAN B	Solan	200/2	- aste	role	.vol	roh	roh	roh	roh	106	MA.	w	rea	200	Sed
13	ROOPA SHREE N	Roug	Pung	Ruy	Ruy	Ruy	Ruy	Ruf	Ry	PW	Rut	noh Oci	30h	RS.	P	R
14	S G SHREYA SHREE	8h	d	Shr	Sh	8h	Shy	Shy	8h	Shu	She	sh	8hu	She	8h	Sh
15	SAGAR D	Sal	GA	Gá	4ai	401	4:	Si	2i	4	Sal	4.	4.1	21	5.1	Σn
16	SAHIL	Salil	Phi	C. W	Sahil	806	Sahil	Cabil	Bahil	Sahil	Sahil	Shi	319	9011	Ishil	
17	SANNIDHI J KULKARNI	Sarg	Song	Sary	Sorg	Sarg	Song	San	Son	Burg	Sarg	Song	S	Son	gary	Sin
18	SANTHOSH A	SA,	CA	SA	SA	SA	LA	24	20	SA	SA	CAR	20	06	04	0
19	SHABARI B E	WO	ma	Va	MA	M	(Q)	MO	ma	me		WE	Mad	4	100	84
20	SHAIK BRIZEES FATHIMA	da	89	de	sha	she	de	she	sla	88	she	sla	ske	1	acts.	el
	SIGNATURE	G.	G	G	G	G	G	G'n	G.	G	G.	6	C	G	G	G



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#### COURSE ON CHEMINFORMATICS AND MOLECULAR MODELING

(Course code: CMM 2023-24)

#### List of Students

S.No	Student Name	Signature
1	MANASA S	Mano-
2	MANIKYAM LIKHITH	X. Kni kyam
3	MONISHA M	Monisha M
4	NOOR AYESHA L	hortail
5	PALASH MAITY	Palash.
6	PRADEEP M	Poradey
7	PRAJWAL B R	The fire BP
8	RAGULNATH V	Radtot.
9	RAJESH NAIDU M	Rairsh M
10	RAVI RANJAN	Button.
11	RESHMA J	N. C.
12	ROHAN B	Pagan
13	ROOPA SHREE N	Produce.
14	S G SHREYA SHREE	a green
15	SAGAR D	084
16	SAHIL	الماليك الماليك
17	SANNIDHI J KULKARNI	SANNINGT
18	SANTHOSH A	Southern
19	SHABARI B E	Stabasi;
20	SHAIK BRIZEES FATHIMA	Knoine

G. Nagalakshmi Course Coordinator

HOD

PRINCIPAL

Dr. G. Nagalakshmi

Dr. A.R. Mahesh

Dr. Padmaa M. Paarakh







# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms	RAJESH NAIDU.	of	year
has undergone an Add-on course	e on Cheminforn	natics and Molecular	Modeling
held at the Department of Phan	rmaceutical Che	mistry, The Oxford	College of
Pharmacy, Bengaluru, Karnatak	a for the academ	ic year 2023-2024.	

G. Nagalakshmi COURSE COORDINATOR MAL

P. Pad we PRINCIPAL

Dr. G. NAGALAKSHMI Dept of Pharma Chemistry The Oxford College of Pharmacy Dr. A.R. MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### PARTICIPATION CERTIFICATE

This is to certify that <del>Mr</del> ./Ms	RESHMA J	0j	<u>I</u>	year
has undergone an Add-on course on	Cheminfori	natics and	Molecular	Modeling
held at the Department of Pharma	ceutical Che	emistry, Th	ne Oxford	College of
Pharmacy, Bengaluru, Karnataka fo	or the acaden	nic year 20.	23-2024.	

G. Nagalakshmi COURSE COORDINATOR HOD

P. Pad us PRINCIPAL

Dr. G. NAGALAKSHMI Dept of Pharma Chemistry The Oxford College of Pharmacy Dr. A.R. MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms	ROHAN	В	_of _ <u>#</u>	year
has undergone an Add-on course or	ı Chemii	nformatics a	nd Molecular	<sup>r</sup> Modeling
held at the Department of Pharma	iceutical	Chemistry,	The Oxford	College of
Pharmacy, Bengaluru, Karnataka fe	or the ac	ademic year	2023-2024.	

G. Nagalatshini COURSE COORDINATOR HOD

P. Pad wa PRINCIPAL

Dr. G. NAGALAKSHMI Dept of Pharma Chemistry The Oxford College of Pharmacy Dr. A.R. MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. ROOPA SHREE. N. of I year
has undergone an Add-on course on Cheminformatics and Molecular Modeling
held at the Department of Pharmaceutical Chemistry, The Oxford College of
Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

G. Nagalakelimi COURSE COORDINATOR



P. Pad ma PRINCIPAL

Dr. G. NAGALAKSHMI Dept of Pharma Chemistry The Oxford College of Pharmacy Dr. A.R. MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

### **PARTICIPATION CERTIFICATE**

This is to certify that Mr./Ms	SAHIL	_of <u> </u>	year
has undergone an Add-on course or	n Cheminformatics	and Molecular	Modeling
held at the Department of Pharma	aceutical Chemistry	, The Oxford	College of
Pharmacy, Bengaluru, Karnataka f	for the academic year	r 2023-2024.	

G. Nagalakshini COURSE COORDINATOR HOD

PRINCIPAL

Dr. G. NAGALAKSHMI Dept of Pharma Chemistry The Oxford College of Pharmacy Dr. A.R. MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy



### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

# COURSE ON CHIRAL PHYTOCHEMICAL ISOLATION AND CHARACTERIZATION (Course Code; CPIC 2023-24)

Notice

Date: 01/07/2024

To

**Notice Board** 

To be read in the class rooms

Course Coordinator: Mrs. Chanda Ranjan

To be filed

The Oxford College of Pharmacy, Bengaluru introduces a 30 hours course on Chiral Phytochemical Isolation and Characterization for the academic year 2023-24, for the benefit of IV sem B. Pharm, students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 13<sup>th</sup> July, 2024 and will be conducted every Tuesday and Saturday after class hours. The eligibility criteria include students pursuing Pharmacy degree that is IV sem B. Pharm students. Interested students can enroll with, Mrs. Chanda Ranjan course coordinator on or before 12<sup>th</sup> July 2024.

18/

Course Co-coordinator

HOD

Principal

Mrs. Chanda Ranjan

Dr.Mahesh AR

Dr. Padmaa M Paarakh



#### **Organizing Committee**

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr. Mahesh AR Department of Pharmaceutical Chemistry TOCP, Bengaluru.
Program Coordinator	Mrs. Chanda Ranjan Department of Pharmaceutical Chemistry TOCP, Bengaluru.

#### For Further Information Contact

Mrs. Chanda Ranjan Assistant Professor Department of Pharmaceutical Chemistry TOCP, Bengaluru

### THE OXFORD COLLEGE OF **PHARMACY**

The Oxford College of Pharmacy in 1992. (TOCP) was established TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Pharm D, Pharm Post Baccalaureate and PhD Programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug control Karnataka Board. respectively, approved by A.I.C.T.E and Pharmacy Council of India, New THE OXFORD COLLEGE OF Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### **ELIGIBILITY CRITERIA**

Pursuing Students Pharmacy Degree i.e., IV SEM B. Pharm,

### Course On "Chiral Phytochemical Isolation and Characterization"



### Organized by

# PHARMACY

Department of Pharmaceutical Chemistry 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

#### **Important Dates**

Duration: 30 hours

Last date for registration:12/07/2024

Date of commencement: 13/07/2024 Planned Examination : After

completion of 30 hrs of classes

### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact person for registartion	Mrs. Chanda Ranjan 9108010092

#### **STRUCTURE**

- Course will be conducted for 30 hours.
- Every Tuesday and Saturday after the college hours.

#### **COURSE DESCRIPTION**

The Department of Pharmaceutical Chemistry TOCP , Bengaluru-560068 introduces a thirty hours certificate Chiral course on Phytochemical Isolation and Characterization (Course Code: CPIC 2023-24). This course offers basic knowledge the about understanding of the fundamental concepts, techniques, in isolating characterizing and chiral compounds.

# OBJECTIVES OF PROGRAM

- Chiral Phytochemical Isolation and Characterization" will help in having the understanding of the fundamental concepts, techniques, and applications related to isolating and characterizing chiral compounds from plants.
- Understand how to select the appropriate method based on the properties of the phytochemicals being studied.

### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

#### **DURATION**

Thirty hours.

#### **OUTCOME**

At the end of this course students were able to:

- Recognize the significance of chirality in natural products.
- Understand both theoretical and practical skills in isolating and characterizing chiral phytochemicals.
- It helped the students in preparing them for roles in research, pharmaceuticals, food science, and related industries.

### 4. REGISTRATION PROCESS

Directly contact Course Co-Ordinator and register.





### The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON CHIRAL PHYTOCHEMICAL ISOLATION AND CHARACTERIZATION CPIC (2023-24)

### Registration List

S. No	Name of the student	Signature
1	Shivan.A	
2	Shobha	Shophe
3	Shodhan s reddy	Jul
4	Sneha Biswas	Sins
5	Soniya Patel	Sociya.B. Smjaya.M.
6	Sowjanya M	Smjange M.
7	Sudhansu kumar choudhary	ali
8	Syed saqlian A	Speed
9	Tharun H.G	The state of the s
10	Thejas.P	Tarsal,
11	Veena.S	Veena. S.
12	Venkatesh.S	VS
13	Vinay kumar	Qui
14	Vinutha k	W.
15	Zakir ahmad Magry	(Zhu

Course Co-coordinator

Mrs. Chanda Ranjan

HOD

Dr. Mahesh AR

P. Padwo Principal

Dr. Padmaa M Paarakh





### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

### COURSE ON CHIRAL PHYTOCHEMICAL ISOLATION AND CHARACTERIZATION

(Course Code: CPIC 2023-24)

#### Session Plan

SL. NO	DATE	DAY	TIME	MODULE	FACULTY
1	13-07-2024	SATURDAY	1:30-2:30 PM	Inaugural Module-1	Dr. Padmaa. M. Paarakh Chanda Ranjan
2	13-07-2024	SATURDAY	3:00-4:00 PM	Module-1	Chanda Ranjan
3	16-07-2024	TUESDAY	4:30-5:30 PM	Module-1	Chanda Ranjan
4	20-07-2024	SATURDAY	1:30-2:30 PM	Module-1	Chanda Ranjan
5	20-07-2024	SATURDAY	3:00-4:00 PM	Module-1	Chanda Ranjan
6	23-07-2024	TUESDAY	4:30-5:30 PM	Module-1	Chanda Ranjan
7	27-07-2024	SATURDAY	1:30-2:30 PM	Module-1	Chanda Ranjan
8	27-07-2024	SATURDAY	3:00-4:00 PM	Module-1	Chanda Ranjan
9	30-07-2024	TUESDAY	4:30-5:30 PM	Module-1	Chanda Ranjan
10	03-08-2024	SATURDAY	1:30-2:30 PM	Module-1	Dr. Kirana
11	03-08-2024	SATURDAY	3:00-4:00 PM	Module-1	Chanda Ranjan
12	06-08-2024	TUESDAY	4:30-5:30 PM	Module-2	Chanda Ranjan
13	10-08-2024	SATURDAY	1:30-2:30 PM	Module-2	Chanda Ranjan
14	10-08-2024	SATURDAY	3:00-4:00 PM	Module-2	Chanda Ranjan
15	13-08-2024	TUESDAY	4:30-5:30 PM	Module-2	Chanda Ranjan
16	17-08-2024	SATURDAY	1:30-2:30 PM	Module-2	Chanda Ranjan
17	17-08-2024	SATURDAY	3:00-4:00 PM	Module-2	Chanda Ranjan
18	27-08-2024	TUESDAY	4:30-5:30 PM	Module-2	Chanda Ranjan
19	31-08-2024	SATURDAY	1:30-2:30 PM	Module-2	Chanda Ranjan
20	31-08-2024	SATURDAY	3:00-4:00 PM	Module-2	Chanda Ranjan





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21	03-09-2024	TUESDAY	4:30-5:30 PM	Module-2	Chanda Ranjan
22	10-09-2024	TUESDAY	4:30-5:30 PM	Module-3	Chanda Ranjan
23	14-09-2024	SATURDAY	1:30-2:30 PM	Module-3	Chanda Ranjan
24	14-09-2024	SATURDAY	3:00-4:00 PM	Module-3	Chanda Ranjan
25	17-09-2024	TUESDAY	4:30-5:30 PM	Module-3	Chanda Ranjan
26	21-09-2024	SATURDAY	1:30-2:30 PM	Module-3	Chanda Ranjan
27	21-09-2024	SATURDAY	3:00-4:00 PM	Module-3	Chanda Ranjan
28	24-09-2024	TUESDAY	4:30-5:30 PM	Module-3	Chanda Ranjan
29	28-09-2024	SATURDAY	1:30-2:30 PM	Module-3	Chanda Ranjan
30	28-09-2024	SATURDAY	3:00-4:00 PM	Module-3	Chanda Ranjan
31	05-10-2024	SATURDAY	1:30-2:30 PM	Valedictory	Chanda Ranjan

Course Co-coordinators

Mrs. Chanda Ranjan

HOD

Dr. Mahesh AR

Principal

Dr. Padma M Paarakh





### The Oxford College of Pharmacy

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#### COURSE ON CHIRAL PHYTOCHEMICAL ISOLATION AND CHARACTERIZATION

(Course Code: CPIC 2023-24)

#### SYLLABUS

MODULES	TOPICS
	Introduction to Phytochemicals
	Overview of Phytochemicals
	Chirality in Phytochemicals
	importance of chiral compounds in photochemistry
*	Extraction Techniques
	Solvent Extraction
	Supercritical Fluid Extraction
	Microwave-Assisted Extraction
Module I	Ultrasonic extraction
.vioduic 1	Different Isolation Methods
	Principles of solvent extraction and actors affecting extraction efficiency
	Steam distillation
	Supercritical fluid extraction
	Chiral Separation Techniques
	Chromatographic methods (HPLC, GC, SFC)
	Enantioselective crystallization
	Capillary electrophoresis
	Chiral chromatography (preparative and analytical)
Module II	Chiral Analysis and Characterization
	Spectroscopic techniques (NMR, MS)
	Spectroscopic techniques (IR, UV-Vis)
	Optical rotation and circular dichroism
	Chiral derivatization methods
	Advanced NMR techniques (NOESY, COSY)





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	Real-world examples of chiral phytochemical isolation							
	Applications in pharmaceuticals, nutraceuticals, and cosmetics							
	Regulatory and ethical considerations							
	Pharmaceutical Applications							
	Role of chiral phytochemicals in drug development							
	Examples of chiral drugs from phytochemicals							
	Nutraceutical and Cosmetic Applications							
Module III	Chiral phytochemicals in nutraceuticals and cosmetics							
	Regulatory and Ethical Considerations							
	Guidelines for chiral drug development							
	Ethical issues in phytochemical research							
	Emerging research in chiral photochemistry							
	Future prospects and challenges							

ch

Course Co-coordinator

Mrs. Chanda Ranjan

HOD

Dr Mahesh AR

Dr. Padmaa M Paarakh





### The Oxford College of Pharmacy

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### COURSE ON CHIRAL PHYTOCHEMICAL ISOLATION AND CHARACTERIZATION

(Course Code: CPIC 2023-24)

#### Outcome Report

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru- 560068, completed a course on Chiral Phytochemical Isolation and Characterization (Course Code: CPIC 2023-24). 15 students were registered and the course was conducted for 30 hours. The course was intended to impart the understanding of the fundamental concepts, techniques, and applications related to isolating and characterizing chiral compounds from plants and to develop the understanding of how to select the appropriate method based on the properties of the phytochemicals being studied.

Outcome: At the end of this course students were able to:

- 1. Recognize the significance of chirality in natural products.
- 2. Understand both theoretical and practical skills in isolating and characterizing chiral phytochemicals.
- It helped the students in preparing them for roles in research, pharmaceuticals, food science, and related industries.

The students were satisfied and were keen to attend such programs in future.

Course Co-coordinator

Mrs. Chanda Ranjan

HOD

Dr. Mahesh AR

Principal

Dr. Padmaa M Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru –560 068 ②: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacvprincipal@theoxford.edu: info@theoxford.edu:



### The Oxford College of Pharmacy

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# COURSE ON CHIRAL PHYTOCHEMICAL ISOLATION AND CHARACTERIZATION (Course Code: CPIC 2023-24)

#### Completion Report

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bengaluru, conducted a course on Chiral Phytochemical Isolation and Characterization (Course Code: CPIC 2023-24) for the academic year 2023-24. The course was intended to impart the understanding of the fundamental concepts, techniques, and applications related to isolating and characterizing chiral compounds from plants and to develop the understanding of how to select the appropriate method based on the properties of the phytochemicals being studied.

The course was started with a formal inaugural function started by Principal Dr. M. Padmaa Paarakh. The function was conducted and all the participants were introduced by Mrs. Chanda Ranjan, Course Coordinator. Our principal had emphasized on the importance of doing such courses in academics as well as in future also. The inaugural function has been summed up with the introductory lecture of course coordinator by Mrs. Chanda Ranjan.

A total 30 hours course had been conducted after the college hours on Tuesday and Saturday. About 15 students were attended the course and benefited. The syllabus of the course had been divided into three modules. After the completion of each module an internal assessment was conducted and overall test was conducted after the completion of the course.

The performance of the students in the tests were found to be excellent, in which 64.56 % students scored grade A (marks percentage-95-100%) in all the tests followed by 18.54 % who scored grade B (marks percentage-90-94%) and % scored grade C 12.40 % (marks percentage-85-90 %) and 4.50 % scored grade D (marks percentage-75-84 %). 76.56 % of the students had scored more than 95% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 05/10/2024 and the course participation certificates were distributed to all 15 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr. Mahesh



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e-mail: pharmacvprincipal@theoxford.edu: info@theoxford.edu:



# Children's Education Society (Regd.) The Oxford College of Pharmacy

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AR thanked Principal Madam and management for providing best infrastructure for carrying out such courses. On behalf of Department, he promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa Paarakh, Principal, TOCP, Bengaluru had appreciated the enthusiasm of the students in this course and also thanked the Department of Pharmaceutical chemistry, and the course coordinator Mrs. Chanda Ranjan for successful completion of the course.

Course Co-coordinator

Mrs. Chanda Ranjan

HOD

Dr. Mahesh AR

Principal

Dr. Padmaa M Paarakh



### The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

# COURSE ON CHIRAL PHYTOCHEMICAL ISOLATION AND CHARACTERIZATION CPIC (2023-24)

#### Attendance Statement

S. No	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	13/7	13/4	16/7	20/4	20/7	23/4	27/4	27/4	30/7	3/8	3/8	6/8	10/8	10/8	13/8
1	Shivan.A	84	SA	8 <b>A</b>	8/A	2A	84	34	g/A	8A	A	24	8A	4	2A	24
2	Shobha	@	5	8	(5)	8	8	(9)	8	0	8	(2)	8	(3)	9	8
3	Shodhan s reddy	SH	ea	sof	Con	200	Set	COL	39	Con	ST	CH	SA	SA	SH	SH
4	Sneha Biswas	8m	Don't	De	80	80	800	Bur	Ru	8m	800	Bund	9,00	Dal	Day	Bu
5	Soniya Patel	Sp	Sp	Sp	Sp	80	Sp	Sp	Sp	80	80	Sp	Sp	8	Sp	Sp
6	Sowjanya M	9 800	8	S	aSa	S	80	8	So	250	50	6	8	S	600	S
7	Sudhansu kumar	100		-20	0	-			- Standards		300					
	choudhary	S	5	A	Sa	5	S	8/	Se	S	S	A	S	W	8	8
8	Syed saqlian A	Syst	Syst	Syste	Syd	SA	Syd	Sypol	Syl	Syst	Sged	890	8	Sych	8	Sylve
9	Tharun H.G	-HA	1	HA	HA	Ш	44	HE	1-10	116	- HE	14	-ud	116	-40	1
10	Thejas.P	#	TH	#	TA	3	7	A	TH	#	TH	A	FIA	A	4	TA
11	Veena.S	LEGIE	ren	veen	NEGO .	20	syl	reew	Mens	Moore .	200	Men	ser.	reell	uego	ye &
12	Venkatesh.S	v	15	vs	15	vs	VS	VS	3	15	R	45	VS	72	y	s
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### The Oxford College of Pharmacy

ा सर्वत्र कोभने ।ised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Cold. 1974 Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON CHIRAL PHYTOCHEMICAL ISOLATION AND CHARACTERIZATION CPIC (2023-24)

#### Attendance Statement

S. No	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Date of the Class	17/8	17/8	27/8	31/8	31/8	3/9	10/9	149	12/9	27/9	21/9	20/	24/9	29/9	28/0
1	Shivan.A	Sh	de	ala	gh.	\$	86	8A	da	A	ØA.	A	6A	Zh.	A	A
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4	Sneha Biswas	30	20	X	200	10	LW.	NO DE	IN.	22	32	- Ku	1	2 m	D.	Du Du
5	Soniya Patel	Sp	8	Sp	Sp	Sp	Sp	Sp	Sp	80	Δ	Sp	80	Sp	SP	Sp
6	Sowjanya M	· Coa	do	de	080	8	80	80	6	80	80	9	60	2	6	8
7	Sudhansu kumar choudhary	_	Cal	100		(ab)				(e)	&	00	BY	مک		To
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12	Venkatesh.S	<b>V</b> 5	1/5	vs	45	·v5	3	vs	VS	Α	vs	vs	5	4	vs	Vs
13	Vinay kumar	Mo	100	VIE	A	WE	W	18	₩O	188	NEW	7KP	THE STATE OF THE S	110	ملاه	18
14	Vinutha k	VK	VK	V	V	1k	Vk	VK	VE	UK	VK.	W	W	Vk	V	Vk
15	Zakir ahmad Magry	D)	3	2	R	2	D	O,	9	8	9	9	g.	P	Ø,	B
	SIGNATURE	UF.	ch	d	or v	JU	U	ch	ch	ch	CK	CP	CF	CR	u	CK





### PARTICIPATION CERTIFICATE

Course Coordinator

HOD

P. Paduo\_ Principal

Mrs Chanda Ranjan
of Pharmaceutical Chem

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Mahesh AR

Dept. of Pharmaceutical Chemistry
The Oxford College of Pharmacy

Dr. Padmaa M Paarakh
The Oxford College of Pharmacy





### PARTICIPATION CERTIFICATE

Course Coordinator

HOD

P. Padwo Principal

Mrs Chanda Ranjan

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Mahesh AR

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Padmaa M Paarakh The Oxford College of Pharmacy





### PARTICIPATION CERTIFICATE

This is to certify that .Shodhan S. Reddy...of .W.Sem B.Phalm has undergone a Course on Chiral Phytochemical Isolation and Characterization held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka, for the academic year 2023-24.

CE

Course Coordinator

HOD

P Padus Principal

Mrs Chanda Ranjan

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Mahesh AR

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Padmaa M Paarakh

The Oxford College of Pharmacy





### **PARTICIPATION CERTIFICATE**

This is to certify that <u>Sneha Biswas</u> of <u>IN Sem Behaum</u> has undergone a <u>Course on Chiral Phytochemical Isolation and Characterization</u> held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka, for the academic year 2023-24.

Course Coordinator

HOD

P. Pad wa Principal

Mrs Chanda Ranjan

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Mahesh AR

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Padmaa M Paarakh
The Oxford College of Pharmacy





## PARTICIPATION CERTIFICATE

**Course Coordinator** 

HOD

P (Pad uo\_ Principal

Mrs Chanda Ranjan

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Mahesh AR

Dept. of Pharmaceutical Chemistry The Oxford College of Pharmacy Dr. Padmaa M Paarakh
The Oxford College of Pharmacy



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### COURSE ON ELECTROCHEMICAL SYNTHESIS AND PROCESSING

(Course Code: ESP 2023-24)

#### NOTICE

Date: 01-07-2024

To

Notice Board

To be read in the class rooms

Course Coordinator - Mrs. Pradeepa Prasad,

To be filed

The Oxford College of Pharmacy, Bengaluru introduces 30 hours course on "Electrochemical Synthesis and Processing" for the academic year 2023-24, for the benefit of II semester B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 13th July 2024. The classes will be conducted every Saturday and Tuesday after the regular class hours. The eligibility criteria include students pursuing Pharmacy degree, that is II semester B. Pharm students. Interested students can enrol with Mrs. Pradeepa Prasad, course coordinator on or before 12th July 2024.

COURSE CO-ORDINATOR

Mrs Pradeepa Prasad

HOD

Dr A R Mahesh

PRINCIPAL

Dr Padmaa M Paarakh



Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.			
HOD	Dr. A.R.Mahesh, HOD,  Department of Pharmaceutical Chemistry TOCP, Bengaluru.			
Program Coordinator	Mrs. Pradeepa Prasad, Assistant professor, Department of Pharmaceutical Chemistry TOCP, Bengaluru.			

## For Further Information Contact

## Mrs. Pradeepa Prasad

Assistant Professor Department of Pharmaceutical Chemistry TOCP, Bengaluru Email: pradeepapharm@gmail.com

## THE OXFORD COLLEGE OF **PHARMACY**

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's offers D Education Society (R) Pharm, B. Pharm, M. Pharm, Pharm. (Post Pharm. and D. Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi of Health Sciences, University Karnataka, and Drug Control Board, respectively, and Karnataka Pharmacy Council of India, New excellent has **TOCP** Delhi. of terms in infrastructure sophisticated laboratories, lecture halls, etc.

## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree Date of commencement: 13/07/2024 i.e., II semester B. Pharm students

## **ELECTROCHEMICAL** SYNTHESIS AND PROCESSING "



Organized by

## THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutical Chemistry,

instruments, 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

**Duration: 30 hours** 

Late date for Registration: 12/07/2024

Date of examination: After completion

of 30 hours classes

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bengaluru-68
Contact person for registration	Mrs. Pradeepa Prasad 8921969168

#### STRUCTURE

- Course will be conducted for 30 hours.
- Course will be conducted on every Saturday and Tuesday after the college hours.

#### COURSE DESCRIPTION

The Department of Pharmaceutical Chemistry, TOCP, Bengaluru introduces a thirty hours certificate course on ELECTROCHEMICAL SYNTHESIS AND PROCESSING (Course Code: ESP 2023-24). This course offers pharmacy registrants with the knowledge and skills needed to leverage electrochemical synthesis

# OBJECTIVES OF PROGRAM

- The course provides the knowledge This course about the electrochemical methods comprehensive
- This course will equip pharmacy registrants with the knowledge and skills needed to leverage electrochemical synthesis in their future careers
- It provide the students with a comprehensive understanding of electrochemical synthesis and its relevance to pharmaceutical sciences

#### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus.

#### DURATION

Thirty hours.

#### OUTCOME

- This course will provides a comprehensive understanding of electrochemical methods.
- Students will learn how to apply electrochemical synthesis in drug discovery and development.
- Create new drug molecules and optimize existing ones with greater efficiency and selectivity.
- of Design and optimize electrochemical reactions, troubleshoot experimental issues, and interpret complex data, preparing them for advanced research and professional roles in the pharmaceutical industry

#### REGISTRATION PROCESS

 Contact your course coordinators and register.



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#### COURSE ON ELECTROCHEMICAL SYNTHESIS AND PROCESSING

(Course Code: ESP 2023-24)

Session Plan

SL. NO	DATE	DAY	TIME	MODULE	FACULTY
1	13-07-2024	SATURDAY	1:30-2:30 PM	Inaugural Module-1	Dr. Padmaa. M. Paarakh Mrs Pradeepa Prasad
2	13-07-2024	SATURDAY	3:00-4:00 PM	Module-1	Mrs Pradeepa Prasad
3	16-07-2024	TUESDAY	4:30-5:30 PM	Module-1	Mrs Pradeepa Prasad
4	20-07-2024	SATURDAY	1:30-2:30 PM	Module-1	Mrs Pradeepa Prasad
5	20-07-2024	SATURDAY	3:00-4:00 PM	Module-1	Mrs Pradeepa Prasad
6	23-07-2024	TUESDAY	4:30-5:30 PM	Module-1	Mrs Pradeepa Prasad
7	27-07-2024	SATURDAY	1:30-2:30 PM	Module-1	Mrs Pradeepa Prasad
8	27-07-2024	SATURDAY	3:00-4:00 PM	Module-1	Mrs Pradeepa Prasad
9	30-07-2024	TUESDAY	4:30-5:30 PM	Module-1	Mrs Pradeepa Prasad
10	03-08-2024	SATURDAY	1:30-2:30 PM	Module-1	Mrs Pradeepa Prasad
11	03-08-2024	SATURDAY	3:00-4:00 PM	Module-1	Mrs Pradeepa Prasad
12	06-08-2024	TUESDAY	4:30-5:30 PM	Module-2	Mrs Pradeepa Prasad
13	10-08-2024	SATURDAY	1:30-2:30 PM	Module-2	Mrs Pradeepa Prasad
14	10-08-2024	SATURDAY	3:00-4:00 PM	Module-2	Mrs Pradeepa Prasad
15	13-08-2024	TUESDAY	4:30-5:30 PM	Module-2	Mrs Pradeepa Prasad
16	17-08-2024	SATURDAY	1:30-2:30 PM	Module-2	Mrs Pradeepa Prasad
17	17-08-2024	SATURDAY	3:00-4:00 PM	Module-2	Mrs Pradeepa Prasad
18	27-08-2024	TUESDAY	4:30-5:30 PM	Module-2	Mrs Pradeepa Prasad
19	31-08-2024	SATURDAY	1:30-2:30 PM	Module-2	Mrs Pradeepa Prasad
20	31-08-2024	SATURDAY	3:00-4:00 PM	Module-2	Mrs Pradeepa Prasad
21	03-09-2024	TUESDAY	4:30-5:30 PM	Module-2	Mrs Pradeepa Prasad



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22	10-09-2024	TUESDAY	4:30-5:30 PM	Module-3	Mrs Pradeepa Prasad
23	14-09-2024	SATURDAY	1:30-2:30 PM	Module-3	Dr Chandramouli
24	14-09-2024	SATURDAY	3:00-4:00 PM	Module-3	Mrs Pradeepa Prasad
25	17-09-2024	TUESDAY	4:30-5:30 PM	Module-3	Mrs Pradeepa Prasad
26	21-09-2024	SATURDAY	1:30-2:30 PM	Module-3	Mrs Pradeepa Prasad
27	21-09-2024	SATURDAY	3:00-4:00 PM	Module-3	Mrs Pradeepa Prasad
28	24-09-2024	TUESDAY	4:30-5:30 PM	Module-3	Mrs Pradeepa Prasad
29	28-09-2024	SATURDAY	1:30-2:30 PM	Module-3	Mrs Pradeepa Prasad
30	28-09-2024	SATURDAY	3:00-4:00 PM	Module-3	Mrs Pradeepa Prasad
31	05-10-2024	SATURDAY	1:30-2:30 PM	Valedictory	Mrs Pradeepa Prasad

Course Co-coordinators

Mrs Pradeepa Prasad

HOD

Dr. AR Mahesh

Principal

Dr. Padma M Paarakh



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## COURSE ON ELECTROCHEMICAL SYNTHESIS AND PROCESSING

(Course Code: ESP 2023-24)

#### REGISTRATION LIST

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COURSE CO-ORDINATOR

HOL

P. Pad WO PRINCIPAL

Mrs Pradeepa Prasad

Dr A R Mahesh

Dr Padmaa M Paarakh



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## COURSE ON ELECTROCHEMICAL SYNTHESIS AND PROCESSING (Course Code: ESP 2023-24)

#### SYLLABUS

MODULE	TOPIC					
	Introduction to Electrochemistry in Pharmacy					
	Electrochemistry basics					
	Electrochemical reactions in pharmaceutical applications					
	Electrochemical cells and electrodes					
M. L.L. T	Electrode kinetics and pharmacokinetics					
Module I	Electrochemical analysis in pharmaceutical research					
	Electrochemical Synthesis of Pharmaceuticals					
	Electrochemical synthesis of APIs, intermediates, chiral compounds					
	Electrochemical oxidation/reduction reactions					
	Case studies: Electrochemical synthesis (e.g., aspirin, vitamin C)					
	Electrochemical Processing in Pharmaceutical Formulation					
	Electrochemical deposition of thin films for drug delivery					
	Electrochemical modification of pharmaceutical excipients					
	Electrochemical synthesis of nanoparticles for drug targeting					
	Electrochemical processing of pharmaceutical suspensions					
Module II	Electrochemical sterilization of pharmaceutical equipment					
Wioduic II	Electrochemical Analysis in Pharmaceutical Quality Control					
	Electrochemical detection methods (e.g., voltammetry, amperometry)					
	Electrochemical sensors for pharmaceutical analysis					
	Electrochemical titration and Karl Fischer titration					
	Electrochemical monitoring of pharmaceutical degradation					
	Case studies: Electrochemical analysis (e.g., dissolution testing)					
	Applications and Case Studies in Pharmaceutical Electrochemistry					
	Electrochemical synthesis of biomolecules (e.g., peptides, proteins)					
	Electrochemical processing of biopharmaceuticals					
Module III	Electrochemical analysis of biosimilars					
	Emerging trends and challenges in pharmaceutical electrochemistry					
	Electrochemical synthesis of personalized medicines					
	Electrochemical applications in pharmaceutical research and development					

COURSE CO-ORDINATOR Mrs. Pradeepa Prasad

HOD Dr A.R. Mahesh PRINCIPAL Dr Padmaa M Paarakh



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#### COURSE ON ELECTROCHEMICAL SYNTHESIS AND PROCESSING

(Course Code: ESP 2023-24)

#### **OUTCOME REPORT**

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru- 560068, completed course on ELECTROCHEMICAL SYNTHESIS AND PROCESSING (Course Code: ESP 2023-24). 30 students registered and the course was conducted for 30 hours. This course was designed to equip pharmacy registrants with the knowledge and skills needed to leverage electrochemical synthesis in their future careers, fostering innovation and sustainability in pharmaceutical research and development.

Outcomes: At the end of this course students were able to

- Gain a comprehensive understanding of electrochemical methods.
- Apply electrochemical synthesis in drug discovery and development.
- · Create new drug molecules and optimize existing ones with greater efficiency and selectivity.
- Design and optimize electrochemical reactions, troubleshoot experimental issues, and interpret
  complex data preparing them for advanced research and professional roles in the pharmaceutical
  industry.

The students were satisfied and were keen to attend such programs in future.

COURSE CO-ORDINATOR

Michaelipus

HOD

PRINCIPAL

Mrs Pradeepa Prasad

Dr A R Mahesh

Dr Padmaa M Paarakh



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#### COURSE ON ELECTROCHEMICAL SYNTHESIS AND PROCESSING

(Course Code: ESP 2023-24)

#### COMPLETION REPORT

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bengaluru, conducted a course on ELECTROCHEMICAL SYNTHESIS AND PROCESSING (Course Code: ESP 2023-24) for the academic year 2023-24. The course was intended to impart the knowledge and skills needed to leverage electrochemical synthesis in their future careers, fostering innovation and sustainability in pharmaceutical research and development.

The course was started with a formal inaugural function by welcoming the Principal Dr. Padmaa M Paarakh. All the participants were introduced by Dr. A R Mahesh, HOD, department of pharmaceutical chemistry. All the 30 students have attended the function. The inaugural function has been summed up with the introductory lecture by Mrs Pradeepa Prasad, Course Coordinator.

A total 30 hours course had been conducted on Saturday and Tuesday. Total 30 students were enrolled for the course. The syllabus of the certificate course had been divided into three modules. After completion of each modules an internal assessment was conducted and an overall test was conducted after the completion of the course.

The final results of module I, II, III, and overall were analysed. Approximately 40% students scored grade A (marks percentage-91-100%) in all the tests followed by 46.6% who scored grade B (marks percentage 81-90%) and 10.8% scored grade C (marks percentage-71-80%) and 2.5% scored grade D (marks percentage-61-70%). The performance of the students in the tests were found to be excellent. Eighty six percent of the students had scored more than 80% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 05/10/24 and the course participation certificate were distributed to all 30 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr A.R. Mahesh. Dr A.R. Mahesh, thanked Principal madam and management for providing best infrastructure for carrying out such courses. On behalf of department, she promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmaceutical Chemistry and the course coordinator Mrs Pradeepa Prasad for successful completion of the course.

COURSE CO-ORDINATOR

Mrs Pradeepa Prasad

Dr A R Mahesh

Dr Padmaa M Paarakh

Oxford

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## COURSE ON ELECTROCHEMICAL SYNTHESIS AND PROCESSING

(Course Code: ESP 2023-24)

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## COURSE ON ELECTROCHEMICAL SYNTHESIS AND PROCESSING

(Course Code: ESP 2023-24)

ATTENDANCE SHEET

			ATT	ENI	)ANC	CE S	HEE	T						20	20	30
	NAME OF THE STUDENT	16	17	18	19	20	21	22	23	24	25 17/9	26	27	28	29	-
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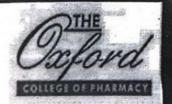
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#6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Nanna Kuma. 5 of B. Phana I year has undergone an Add-on course on Electrochemical Synthesis And Processing held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

HOI

P (Pad wa PRINCIPAL

Mrs. PRADEEPA PRASAD
Dept of Pharma Chemistry
The Oxford College of
Pharmacy

Dr. A R MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. <u>Josephne K</u> of <u>B. Phone 1</u> year has undergone an Add-on course on Electrochemical Synthesis And Processing held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

HOD

P (Padua\_ PRINCIPAL

Mrs. PRADEEPA PRASAD
Dept of Pharma Chemistry
The Oxford College of
Pharmacy

Dr. A R MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. <u>HEMNSHIRE</u> S of <u>B. Phomo I</u> year has undergone an Add-on course on Electrochemical Synthesis And Processing held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

Pharmacy

Mrs. PRADEEPA PRASAD Dept of Pharma Chemistry The Oxford College of HOD

Dr. A R MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy P. Padwa PRINCIPAL





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. <u>Joen John Prince</u> of <u>B. Pronto I</u> year has undergone an Add-on course on Electrochemical Synthesis And Processing held at the Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

HOD

P. Vaduo PRINCIPAL

Mrs. PRADEEPA PRASAD
Dept of Pharma Chemistry
The Oxford College of
Pharmacy

Dr. A R MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy





#6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. HARISH G	of B. Phanm I year has
undergone an Add-on course on Electrochemical Synt	hesis And Processing
held at the Department of Pharmaceutical Chemistry,	The Oxford College of
Pharmacy, Bengaluru, Karnataka for the academic year	2023-2024.

COURSE CO-ORDINATOR

HOD

PRINCIPAL

Mrs. PRADEEPA PRASAD
Dept of Pharma Chemistry
The Oxford College of
Pharmacy

Dr. A R MAHESH Dept of Pharma Chemistry The Oxford College of Pharmacy

## The Oxford College of Pharmacy

(Recognised by the Govt of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON MODERNIZATION IN PHARMA MANUFACTURING TECHNIQUES

(Course Code: MPMT 2023-24)

NOTICE

Date: 01-01-2024

To

**Notice Board** 

To be read in the class rooms

Course Coordinator -Mrs. Divya S Kumar

To be filed

The Oxford College of Pharmacy, Bengaluru introduces 30 hours course on "Modernization in Pharma manufacturing techniques" for the academic year 2023-24, for the benefit of III Semester M. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 8th January 2024. The classes will be conducted every Monday and Saturday after the regular class hours. The eligibility criteria include students pursuing Pharmacy degree, that is III Semester M. Pharm students. Interested students can enroll with Mrs. Divya S Kumar course coordinator on or before 6th January 2024.

COURSE CO-ORDINATOR

Dr Padmaa M Paarakh

Mrs Divya S Kumar

Dr Gururaj S Kulkarni

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068

①: +91-80 -61754694; Fax: +91-80 -61754699; www.theoxford.edu
e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;

## Organizing Committee

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr. Gururaj S Kulkarni, HOD, Department of Pharmaceutics TOCP, Bangalore.
Program Coordinator	Mrs Divya S Kumar, Assistant professor, Department of Pharmaceutics TOCP, Bangalore.

## For Further Information Contact

Mrs. Divya S Kumar

Assistant Professor Department of Pharmaceutics TOCP, Bangalore Email: dsk.ceutics@gmail.com

## THE OXFORD COLLEGE OF **PHARMACY**

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. Baccalaureate) programs. **TOCP** recognized by the Government Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug Control Board, Karnataka respectively, and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., Date of examination: After completion III Semester M. Pharm.

Course On "Modernization in Pharma Manufacturing Techniques"



Organized by

## THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutics, #6/9,1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

**Duration: 30 hours** 

Late date for Registration: 06/01/2024

Date of commencement: 08/01/2024

of 30 hours classes

## REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Mrs Divya S Kumar 9483958121

#### **DURATION**

Thirty hours.

## **COURSE DESCRIPTION**

The Department of Pharmaceutics, FOCP, Bangalore introduces a hirty hours certificate course on 'Modernization In Pharma Manufacturing Techniques' Course Code: MPMT 2023-24). This course offers pharmacy egistrants with the knowledge and kills needed to develop and mplement innovative solutions in harma manufacturing process.

# OBJECTIVES OF PROGRAM

- The course provides the knowledge about the current Manufacturing techniques.
- This course will equip pharmacy registrants with the knowledge and skills to develop and implement innovative solutions in pharma manufacturing process.
- It provide the students with a comprehensive understanding of current regulatory requirements and compliance

#### **STRUCTURE**

- Course will be conducted for 30 hours.
- Course will be conducted on every Monday and Saturday after college hours.

#### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus.

#### OUTCOME

- Develop skill for thinking creatively and innovate for contributing to the development as well as implementation of new and improved manufacturing techniques.
- Develop in-depth knowledge of modern quality assurance protocols, ensuring high standards in drug production and reducing the risk of errors.

## REGISTRATION PROCESS

 Contact your course coordinators and register.



## The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka,
Approved by Pharmacy Council of India, New Delhi)

## COURSE ON MODERNIZATION IN PHARMA MANUFACTURING TECHNIQUES

(Course Code: MPMT 2023-24)

#### REGISTRATION LIST

S.NO	STUDENT NAME	SIGNATURE
1	ANIL KUMAR R	Anil Kuman R
2	ANKITHA NIDHI REDDY	Anil Kuman P
3	BINDU. K	Findul!
4	C. MOHAMMED YASEEN	ENJ YS
5	GOWDA MAHANTESH	Yourd
6	HAMSA C A	Hansa C.B
7	KUSHAN RAJ. P	Hat fay P
8	MADHUCHANDRA	M. medles chain deer
9	MAHESH GOWDA. B. N	Maheah BN
10	MANOHAR. S	Symuno
11	SANJAY H K	Sanfay H.K
12	UMME HABIBA	Sanfay H.K. Unne Habiba

COURSE CO-ORDINATOR

Mrs Divya S Kumar

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh





## The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences. Karnataka. Approved by Pharmacy Council of India, New Delhi)

## COURSE ON MODERNIZATION IN PHARMA MANUFACTURING TECHNIQUES

(Course Code: MPMT 2023-24) SVLLABUS

MODULE	TOPIC
	Introduction to Modernization in Pharma manufacturing techniques
	Implementation and benefits in solid dosage forms.
	Applications in personalized medicine and on-demand drug production.
	Innovations in drug formulation and delivery systems.
	Efficiency and flexibility in biopharmaceutical production.
Module I	Digital Transformation
	Integration of IoT and cyber-physical systems in manufacturing.
	Simulation of manufacturing processes.
	Optimization of manufacturing processes.
	Machine learning applications in a self-
	Machine learning applications in quality control and predictive maintenance.  Process Analytical Technology
	Enhancements in process control through PAT
	Framework for designing robust manufacturing processes.
	Use of computational methods for process optimization.
Module II	Navigating compliance in innovative manufacturing methods.
	Formulation Development
	Advances in drug delivery systems using nanoparticles.
	Challenges and solutions for complex biologics production.
	Innovations in freeze-drying processes.
	Localized production models for rapid response.
	Advanced Process Control
	Model Predictive Control
	Implementing advanced control strategies to optimize manufacturing processes I
	Implementing advanced control strategies to optimize manufacturing processes II
fodule III	Automation
	Robotics Integrating a bating to the second
	Integrating robotics and automation systems to enhance operational efficiency
	Sustainability Initiatives I
	Sustainability Initiatives II
	Addressing the need for regulatory frameworks that adapt to new technologies while maintaining safety and efficacy standards
00	

COURSE CO-ORDINATOR

HOD

P. Pad we

Mrs Divya S Kumar

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh

Oxford

No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru –560 068 D: +91-80 -61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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## COURSE ON MODERNIZATION IN PHARMA MANUFACTURING TECHNIQUES

(Course Code: MPMT 2023-24)

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	1		SESSION PL	AN	
SL-NO	DATE	DAY	TIME	MODULE	FACULTY
1	08-01-2024	MONDAY	4:00-5:00 PM	INAGURAL & MODULE I	Mrs Divya 5 Kumar
2	13-01-2024	SATURDAY	1:00-2:00 PM	MODULE I	Mrs Divya S Kumar
3	13-01-2024	SATURDAY	2:15-3:15 PM	MODULE I	Mrs Divya S Kumar
4	15-01-2024	MONDAY	4:00-5:00 PM	MODULE 1	Mrs Drvya S Kumar
5	20-01-2024	SATURDAY	1:00-2:00 PM	MODULE I	Mrs Divya S Kumar
6	20-01-2024	SATURDAY	2:15-3:15 PM	MODULE 1	Mrs Divya 5 Kumar
7	22-01-2024	MONDAY	4:00-5:00 PM	MODULE 1	Mrs Divya S Kumar
8	27-01-2024	SATURDAY	1:00-2:00 PM	MODULE 1	Mrs Divya S Kumar
9	27-01-2024	SATURDAY	2:15-3:15 PM	MODULE !	Mrs Divya S Kumar
10	29-01-2024	MONDAY	4:00-5:00 PM	MODULE 1	Mrs Divya S Kumar
11	03-02-2024	SATURDAY	1:00-2:00 PM	MODULE 2	Mrs Divya S Kumar
12	03-02-2024	SATURDAY	2:15-3:15 PM	MODULE 2	Mrs Divya S Kumar
13	05-02-2024	MONDAY	4:00-5:00 PM	MODULE 2	Mrs Divya S Kumar
14	10-02-2024	SATURDAY	1:00-2:00 PM	MODULE 2	Mrs Divya S Kumar
15	10-02-2024	SATURDAY	2:15-3:15 PM	MODULE 2	Mrs Divya S Kumar
16	12-02-2024	MONDAY	4:00-5:00 PM	MODULE 2	Mrs Divya S Kumar
17	17-02-2024	SATURDAY	1:00-2:00 PM	MODULE 2	Dr Sangamesh Purani
18	17-02-2024	SATURDAY	2:15-3:15 PM	MODULE 2	Mrs Divya S Kumar
19	26-02-2024	MONDAY	4:00-5:00 PM	MODULE 2	Mrs Divya S Kumar
20	02-03-2024	SATURDAY	1:00-2:00 PM	MODULE 2	Mrs Divya S Kumar
21	02-03-2024	SATURDAY	2:15-3:15 PM	MODULE 3	Mrs Divya S Kumar
22	04-03-2024	MONDAY	4:00-5:00 PM	MODULE 3	Mrs Divya S Kumar
23	09-03-2024	SATURDAY	1:00-2:00 PM	MODULE 3	Mrs Divya S Kumar
24	09-03-2024	SATURDAY	2:15-3:15 PM	MODULE 3	Mrs Divya S Kumar
25	11-03-2024	MONDAY	4:00-5:00 PM	MODULE 3	Mrs Divya S Kumar
26	16-03-2024	SATURDAY	1:00-2:00 PM	MODULE 3	Mrs Divya S Kumar
27	16-03-2024	SATURDAY	2:15-3:15 PM	MODULE 3	Mrs Divya S Kumar
28	18-03-2024	MONDAY	4:00-5:00 PM	MODULE 3	Mrs Divya S Kumar
29	23-03-2024	SATURDAY	1:00-2:00 PM	MODULE 3	Mrs Divya S Kumar
30	23-03-2024	SATURDAY	2:15-3:15 PM	MODULE 3	Mrs Divya S Kumar
31	25-03-2024	MONDAY	4:00-5:00 PM	VALEDICTORY	Mrs Divya S Kumar

Mrs Divya S Kumar

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh



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Children's Education Society (Regd.)

## The Oxford College of Pharmacy

Recognited by the Sout, of Karrassaka, Artificial to have dismile conjunctly of Health Economic Karrastaka.

Appropriately by Pharmacy council of trolla New Paths.

## COURSE ON MODERNIZATION IN PHARMA MANUFACTURING TECHNIQUES

(Course Code: MPMT 2023-24)

#### OUTCOME REPORT

The Department of Pharmaceutical Chemistry. The Oxford College of Pharmacy, Bengaluru- \$60068, completed course on MODERNIZ ATION IN PHARMA MANUFACTURING TECHNIQUES (Course Code: MPMT 2023-24), 12 students registered and the course was conducted for 30 hours. This course was designed to equip pharmacy registrants with the knowledge and skills needed to understand the importance of Micelernization in Pharma manufacturing techniques so as to implement effectively in pharmaceutical research and development.

Outcomes: At the end of this course students were able to

- Develop skill for thinking creatively and innovate for contributing to the development as well as implementation of new and improved manufacturing techniques.
- Develop in-depth knowledge of modern quality assurance protocols, ensuring high standards in drug production and reducing the risk of errors.

COURSE CO-ORDINATOR

Mrs Divya S Kumar

Dr Gururaj S Kulkarni

PRINCHMI.

Dr Padmaa M Paarakh



# Mitage and arrival

Children's Education Society (Regd.)

## The Oxford College of Pharmacy

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## COURSE ON MODERNIZATION IN PHARMA MANUFACTURING TECHNIQUES

(Course Code: MPMT 2023-24)

#### COMPLETION REPORT

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bengaluru, conducted a course on Modernization in Pharma Manufacturing Techniques (Course Code: MPMT 2023-24) for the academic year 2023-24. The course was intended to impart the knowledge and skills needed to leverage, Modernization in Pharma manufacturing techniques in pharmaceutical research and development.

The course was started with a formal inaugural function by welcoming the Principal Dr. Padmaa M Paarakh. All the participants were introduced by Dr. Gururaj S Kulkarni, HOD, Department of Pharmaceutics. All the 12 students have attended the function. The inaugural function has been summed up with the introductory lecture by Mrs Divya S Kumar, Course Coordinator.

A total 30 hours course had been conducted on Monday and Saturday. Total 12 students were enrolled for the course. The syllabus of the certificate course had been divided into three modules. After completion of each modules an internal assessment was conducted and an overall test was conducted after the completion of the course.

The final results of module I, II, III, and overall were analysed. Approximately 50% students scored grade A (marks percentage-91-100%) in all the tests followed by 16.66 % who scored grade B (marks percentage81-90%) and 8.33% scored grade C (marks percentage-71-80%) and 8.33% scored grade D (marks percentage-61-70 %). The performance of the students in the tests were found to be excellent. Ninety-two percent of the students had scored more than 80% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 25/03/24 and the course participation certificate were distributed to all 12 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr Gururaj S Kulkarni. Dr Gururaj S Kulkarni, thanked Principal madam and management for providing best infrastructure for carrying out such courses. On behalf of Department, he promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bengaluru had appreciated the enthusiasm of the students for this course and congratulated the Department of Pharmaceutics and the course coordinator Mrs Divya S Kumar for successful completion of the course.

COURSE CO-ORDINATOR

Mrs Divya S Kumar

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh

Oxford

No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru –560 068 D: +91-80 -61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



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Approved by Pharmacy Council of India, New Delhi)

## COURSE ON MODERNIZATION IN PHARMA MANUFACTURING TECHNIQUES

(Course Code: MPMT 2023-24)

#### ATTENDANCE SHEET

	NAME OF THE STUDENT DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	ANIL KUMAR R	Anish	انما	n 14	. 0	- > 1	0.1									
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8	MADHUCHANDRA	V.	4	4	4	*	4	4	A	4	#	4	A	1	7	\$
9	MAHESH GOWDA, B. N	0	10	A	*	*	4	MO-	A	*	*	W	*	M	#	*
10	MANOHAR. S	Carr	2	200	8	(F)	an	<b>B</b>	B	8	<b>@</b>	R	8	8	B	Q
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## The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, New Delhi)

# COURSE ON MODERNIZATION IN PHARMA MANUFACTURING TECHNIQUES (Course Code: MPMT 2023-24)

#### ATTENDANCE SHEET

	NAME OF THE STUDENT DATE	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	ANIL KUMAR R	enal	A.C	Pri	النها	n. s	0.1	and	art	0.0		n ./	61	. /		
2	ANKITHA NIDHI REDDY	A	0	A	4	1	A.	1	Jen 1	1	Mad	Anil	A THE	Bod	Pro	2
3	BINDU, K	180	00	10	R	0	To	A	100	84	2	54	2	2	71	7
4	C. MOHAMMED YASEEN	a	d	CI	cl	cl	41	0	OL.	0	00	0	00	00	XX	22
5	GOWDA MAHANTESH	g	2	7	N	34	5	500	1	7	St	7	3	3	3	ST.
6	HAMSA C A	A	0	0	0	0	10	0	10	12	7	10	7	12	p	10
7	KUSHAN RAJ. P	#	1	1	1	1	1	1	0	20	N	100	2	1	14	18
8	MADHUCHANDRA	NA AA	V	T	ZA.	A)	4	W	A	4	W	4	A	#	A	A
9	MAHESH GOWDA. B. N	8	Ø	0	8	m C	10	10	0	M	*	0	*	*	4	4
10	MANOHAR. S	Sun	377	SVY	SM	Suy	CM	SW	Card	( Car	OF .	2	125	Car	1	1
11	SANJAY H K	2	0	0	9	C	6/	1	8	R	K	A	1	Sy	57	50
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# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

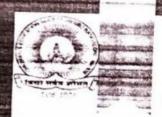
## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. And Kumas R of M Phasm II year has undergone an Add-on course on Modernization in Pharma Manufacturing Techniques held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

Mrs. DIVYA S KUMAR Dept of Pharmaceutics The Oxford College of Pharmacy нов

Dr. Gururaj S Kulkarni Dept of Pharmaceutics The Oxford College of Pharmacy P. Pad wo





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Bindu K of MPhasm I year has undergone an Add-on course on Modernization in Pharma Manufacturing Techniques held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

Mrs. DIVYA S KUMAR Dept of Pharmaceutics The Oxford College of Pharmacy нов

Dr. Gururaj S Kulkarni Dept of Pharmaceutics The Oxford College of Pharmacy P. Pad we PRINCIPAL





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Lanjay HK. of MRam I year has undergone an Add-on course on Modernization in Pharma Manufacturing Techniques held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

Mrs. DIVYAS KUMAR Dept of Pharmaceutics The Oxford College of Pharmacy 1195

Dr. Gururaj S Kulkarni Dept of Pharmaceutics The Oxford College of Pharmacy P. Pad us





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Kuchan Raj P of M. Year has undergone an Add-on course on Modernization in Pharma Manufacturing Techniques held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

Pharmacy

Mrs. DIVYA S KUMAR
Dept of Pharmaceutics
The Oxford College of

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Dr. Gururaj S Kulkarni Dept of Pharmaceutics The Oxford College of Pharmacy P. Paguo PRINCIPAL





# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

## PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. Umme Habiba of MPham Tyear has undergone an Add-on course on Modernization in Pharma Manufacturing Techniques held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bengaluru, Karnataka for the academic year 2023-2024.

COURSE CO-ORDINATOR

Mrs. DIVYA S KUMAR Dept of Pharmaceutics The Oxford College of Pharmacy 1161

Dr. Gururaj S Kulkarni Dept of Pharmaceutics The Oxford College of Pharmacy P Padas



#### The Oxford College of Pharmacy

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#### COURSE ON ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS

(Course Code: EAPI 2023-24)

#### NOTICE

Date: 15-07-2024

To

Notice Board

To be read in the class rooms

Course Coordinator - Mrs. R. Uma Prabha,

To be filed

The Oxford College of Pharmacy, Bangalore introduces 30 hours course on "Economic aspects of pharmaceutical inventions" for the academic year 2023-24, for the benefit of II semester M. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 02th AUGUST 2024. The classes will be conducted every Monday, Thursday, Friday and Saturday after the regular class hours. The eligibility criteria include students pursuing Pharmacy degree, that is II semester M. Pharm students. Interested students can enrol with Mrs.R. Uma Prabha, course coordinator on or before 30th July 2024.

COURSE COORDINATOR

Mrs R.Uma Prabha

нор

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M Paarakh



#### **Organizing Committee**

Chairperson	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr Gururaj S Kulkarni Department of Pharmaceutics TOCP, Bangalore.
Program Coordinator	Mrs.R.Uma Prabha Assistant Professor Department of Pharmaceutics TOCP, Bangalore

#### For Further Information Contact

Mrs.R.Uma Prabha
Assistant Professor
Department of Pharmaceutics
TOCP, Bangalore
Email:
christyprabha4jesus@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Pharm D. Pharm D Post Baccalaureate and PhD Programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug Board. Karnataka control respectively, approved by A.I.C.T.E and Pharmacy Council of India, New TOCP Delhi. has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

#### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., M. Pharm

# Course On "ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS"



Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutics 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

**Duration: 30 hours** 

Late date for Registration: 30/7/2024 Date of commencement: 02/08/2024 Date of examination: After completion

of 30 hours classes

#### REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registartion	Mrs.R.Uma Prabha 8889219391

#### **STRUCTURE**

- Course will be conducted for 30 hours.
- Every Monday, Thursday, Friday and Saturday after the college hours.

#### COURSE DESCRIPTION

The Department of Pharmaceutics TOCP , Bangalore- 560068 introduces a thirty hours certificate course on economic aspects of pharmaceutical inventions(Course Code: EAPI 2023-2024). These course covers a wide range of topics such as economic aspects of pharmaceutical inventions.

## OBJECTIVES OF PROGRAM

- Reduce healthcare costs through innovative, cost-effective pharmaceuticals.
- Increase accessibility to affordable medicines, especially for underserved populations
- Enhance pharmaceutical industry profitability while maintaining social responsibility.

#### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

#### **DURATION**

Thirty hours beginning from 02-08-2024 to 30-09-2024

#### **OUTCOME**

At the end of this course students were able to:

- Gain a comprehensive understanding of Green Pharmacy based pharmaceutical formulations.
- Understand the principles of green chemistry and their application in developing eco-friendly pharmaceutical formulations.
- 3. Gain knowledge of sustainable manufacturing practices that reduce environmental hazards in drug production.
- 4. Learn to design pharmaceutical products that are safer for both humans and the environment, with minimized waste and pollution.

#### REGISTRATION PROCESS

Directly contact Course Co-Ordinator and register.



## The Oxford College of Pharmacy

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#### COURSE ON ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS

(Course Code: EAPI 2023-24)

#### REGISTRATION LIST

N.NO	STUDENT NAME	SIGNATURE
1	Ananya	Diage
2	Arroju Hritjik	Amy but.
3	B G Shravanya	8.6P. P. J.
4	Chethan Sheshadri	4
5	Kavya	Kavya
6	Pallavi	21:
7	Sanjay	Sanjary
8	Shaikbaji	There !
9	Soundarya	Sonad
10	Surya	Durya
11	Priyanka	Pryanka

COURSE CO-ORDINATOR

Mrs.R.Uma Prabha

HODY

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh





## The Oxford College of Pharmacy

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## COURSE ON ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS (Course Code: EAPI 2023-24)

SYLLABUS

MODULE	TOPIC
	Investment Trends in Pharmaceutical R&D
	Venture Capital Investment in Biotech Startups
	Public Funding for Pharmaceutical Research
	Impact of Mergers and Acquisitions on R&D Investment
Module I	Emerging Markets and R&D Investment
Module 1	Return on Investment (ROI) in Pharmaceutical R&D
	Impact of Regulatory Changes on R&D Funding
	Trends in Collaborative Research and Public-Private Partnerships
	Artificial Intelligence and Technology Investment in R&D
	Investment in Personalized Medicine and Genomics
	Impact of Health Insurance on Drug Pricing
	Role of Formularies in Drug Pricing
	Negotiation Strategies Between Insurers and Pharmaceutical Companies
	Out-of-Pocket Costs for Patients
	Impact of Pharmacy Benefit Managers (PBMs)
Module II	Government Regulations and Price Controls
	Value-Based Pricing Models
	Impact of Insurance Type on Drug Accessibility
	Patient Assistance Programs and Insurance Coverage
	Impact of Specialty Drugs on Health Insurance Costs
	International Pricing Strategies and Health Insurance
	Economic Consequences of Orphan Drug Legislation
	Incentives for Rare Disease Research
	Impact on Drug Pricing for Orphan Drugs
Module III	Market Dynamics of Orphan Drugs
	Economic Burden of Rare Diseases
	Role of Nonprofit Organizations in Orphan Drug Development
	Patent Exclusivity and Market Entry

COURSE CO-ORDINATOR

Mrs.R.Uma Prabha

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh

Oxford

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# The Oxford College of Pharmacy

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# COURSE ON ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS

(Course Code: EAPI 2023-24)

		SESSION PLA	<u>v</u>	
DATE	DAY	TIME	MODULE	FACULTY
02-08-2024	FRIDAY	4:00-5:00 PM	INAGURAL & MODULE 1	Mrs R. Uma Prabhi
03-08-2024	SATURDAY	1:00-2:00 PM	MODULE 1	Mrs.R. Uma Prabha
05-08-2024	MONDAY	4:00-5:00 PM	MODULE 1	Mrs.R. Uma Prabha
08-08-2024	THURSDAY	4:00-5:00 PM	MODULE 1	Mrs R.Uma Prabha
09-08-2024	FRIDAY	4:00-5:00 PM	MODULE 1	Mrs.R. Uma Prabha
10-08-2024	SATURDAY	1:00-2:00 PM	MODULE 1	Dr.Nagendra Rao
12-08-2024	MONDAY	4:00-5:00 PM	MODULE 1	Mrs.R. Uma Prabha
16-08-2024	FRIDAY	4:00-5:00 PM	MODULE 1	Mrs.R. Uma Prabha
17-08-2024	SATURDAY	1:00-2:00 PM	MODULE 1	Mrs.R. Uma Prabha
19-08-2024	FRIDAY	4:00-5:00 PM	MODULE 1	Mrs.R. Uma Prabha
26-08-2024	MONDAY	4:00-5:00 PM	MODULE 2	Mrs.R. Uma Prabha
29-08-2024	THURSDAY	4:00-5:00 PM	MODULE 2	Mrs.R. Uma Prabha
30-08-2024	FRIDAY	4:00-5:00 PM	MODULE 2	Mrs.R. Uma Prabha
31-08-2024	SATURDAY	1:00-2:00 PM	MODULE 2	Mrs.R. Uma Prabha
02-09-2024	MONDAY	4:00-5:00 PM	MODULE 2	Mr.R. Uma Prabha
05-09-2024	THURSDAY	4:00-5:00 PM	MODULE 2	Mrs.R. Uma Prabha
06-09-2024	FRIDAY	4:00-5:00 PM	MODULE 2	Mrs.R. Uma Prabha
09-09-2024	MONDAY	4:00-5:00 PM	MODULE 2	Mrs.R. Uma Prabha
12-09-2024	THURSDAY	4:00-5:00 PM	MODULE 2	Mrs.R. Uma Prabha
13-09-2024	FRIDAY	4:00-5:00 PM	MODULE 2	Mrs.R. Uma Prabha
14-09-2024	SATURDAY	1:00-2:00PM	MODULE 3	Mrs.R. Uma Prabha
19-09-2024	THURSDAY	4:00-5:00 PM	MODULE 3	Mrs.R. Uma Prabha
20-09-2024	FRIDAY	4:00-5:00 PM	MODULE 3	Mrs.R. Uma Prabha
21-09-2024	SATURDAY	1:00-2:00PM	MODULE 3	Mrs.R. Uma Prabha
21-09-2024	SATURDAY	3:00-4:00PM	MODULE 3	Mrs.R. Uma Prabha
23-09-2024	MONDAY	4:00-5:00 PM	MODULE 3	Mrs.R. Uma Prabha
26-09-2024	THURSADY	4:00-5:00 PM	MODULE 3	Mrs.R. Uma Prabha
27-09-2024	FRIDAY	4:00-5:00 PM	MODULE 3	Mrs.R. Uma Prabha
28-09-2024	SATURDAY	1:00-2:00PM	MODULE 3	Mrs.R. Uma Prabha
28-09-2024	SATURDAY	3:00-4:00PM	MODULE 3	Mrs.R. Uma Prabha
30-09-2024	MONDAY	4:00-5:00 PM	VALIDICTORY	Mrs.R. Uma-Prabha
	03-08-2024 05-08-2024 09-08-2024 10-08-2024 12-08-2024 17-08-2024 17-08-2024 26-08-2024 26-08-2024 30-08-2024 30-08-2024 02-09-2024 05-09-2024 06-09-2024 12-09-2024 13-09-2024 14-09-2024 19-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024 21-09-2024	02-08-2024         FRIDAY           03-08-2024         SATURDAY           05-08-2024         MONDAY           08-08-2024         THURSDAY           09-08-2024         FRIDAY           10-08-2024         SATURDAY           12-08-2024         MONDAY           16-08-2024         FRIDAY           17-08-2024         FRIDAY           19-08-2024         FRIDAY           26-08-2024         MONDAY           29-08-2024         THURSDAY           30-08-2024         FRIDAY           31-08-2024         SATURDAY           02-09-2024         MONDAY           05-09-2024         THURSDAY           06-09-2024         FRIDAY           13-09-2024         FRIDAY           14-09-2024         FRIDAY           19-09-2024         THURSDAY           19-09-2024         FRIDAY           21-09-2024         FRIDAY           21-09-2024	DATE         DAY         TIME           02-08-2024         FRIDAY         4:00-5:00 PM           03-08-2024         SATURDAY         1:00-2:00 PM           05-08-2024         MONDAY         4:00-5:00 PM           08-08-2024         THURSDAY         4:00-5:00 PM           09-08-2024         FRIDAY         4:00-5:00 PM           10-08-2024         SATURDAY         1:00-2:00 PM           12-08-2024         MONDAY         4:00-5:00 PM           16-08-2024         FRIDAY         4:00-5:00 PM           17-08-2024         SATURDAY         1:00-2:00 PM           19-08-2024         FRIDAY         4:00-5:00 PM           19-08-2024         FRIDAY         4:00-5:00 PM           26-08-2024         MONDAY         4:00-5:00 PM           29-08-2024         THURSDAY         4:00-5:00 PM           30-08-2024         FRIDAY         4:00-5:00 PM           02-09-2024         MONDAY         4:00-5:00 PM           05-09-2024         THURSDAY         4:00-5:00 PM           05-09-2024         FRIDAY         4:00-5:00 PM           12-09-2024         FRIDAY         4:00-5:00 PM           12-09-2024         FRIDAY         4:00-5:00 PM           14-09-20	02-08-2024         FRIDAY         4:00-5:00 PM         INAGURAL & MODULE I           03-08-2024         SATURDAY         1:00-2:00 PM         MODULE I           05-08-2024         MONDAY         4:00-5:00 PM         MODULE I           08-08-2024         THURSDAY         4:00-5:00 PM         MODULE I           09-08-2024         FRIDAY         4:00-5:00 PM         MODULE I           10-08-2024         SATURDAY         1:00-2:00 PM         MODULE I           12-08-2024         MONDAY         4:00-5:00 PM         MODULE I           17-08-2024         FRIDAY         4:00-5:00 PM         MODULE I           17-08-2024         FRIDAY         4:00-5:00 PM         MODULE I           19-08-2024         FRIDAY         4:00-5:00 PM         MODULE I           19-08-2024         FRIDAY         4:00-5:00 PM         MODULE I           26-08-2024         FRIDAY         4:00-5:00 PM         MODULE 2           29-08-2024         THURSDAY         4:00-5:00 PM         MODULE 2           31-08-2024         FRIDAY         4:00-5:00 PM         MODULE 2           05-09-2024         MONDAY         4:00-5:00 PM         MODULE 2           06-09-2024         FRIDAY         4:00-5:00 PM         MODULE 2

COURSE OF ORDINATOR

Mrs.R.Uma Prabha

Dr Gururaj S Kulkarni

PRINCER UD

Dr Padmaa M Paarakh



No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru 560 068 D: +91-80 - 61754694, Lax +91-80 -61754699, www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu, info@theoxford.edu,



### The Oxford College of Pharmacy

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#### COURSE ON ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS

(Course Code: EAPI 2023-24)

#### OUTCOME REPORT

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bengaluru- 560068, completed course on ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS (Course Code: EAPI 2023-24). 11 students registered and the course was conducted for 30 hours. This course was designed to equip pharmacy registrants with the knowledge and skills needed to leverage electrochemical synthesis in their future careers, fostering innovation and sustainability in pharmaceutical research and development.

Outcomes: At the end of this course students were able to

- · Gain a comprehensive understanding of electrochemical methods.
- · Apply electrochemical synthesis in drug discovery and development.
- Create new drug molecules and optimize existing ones with greater efficiency and selectivity.
- Design and optimize electrochemical reactions, troubleshoot experimental issues, and interpret
  complex data preparing them for advanced research and professional roles in the pharmaceutical
  industry.

The students were satisfied and were keen to attend such programs in future.

COURSE COORDINATOR

Mrs.R. Uma Prabha

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh

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#### COURSE ON ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS

(Course Code: EAPI 2023-24)
COMPLETION REPORT

The Department of Pharmaceutics, The Oxford college of Pharmacy, Bangalore, conducted a course on ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS (Course Code: EAPI 2023-24) for the academic year 2023-24. The course was intended to impart the knowledge and skills needed to leverage electrochemical synthesis in their future careers, fostering innovation and sustainability in pharmaceutical research and development.

The course was started with a formal inaugural function by welcoming the Principal Dr. Padmaa M Paarakh. All the participants were introduced by Dr. Gururaj S Kulkarni, HOD, department of pharmaceutics. All the 11 students have attended the function. The inaugural function has been summed up with the introductory lecture by Mrs.R. Uma Prabha, Course Coordinator

A total 30 hours course had been conducted on Monday, Thursday, Friday and Saturday. Total 11 students were enrolled for the course. The syllabus of the certificate course had been divided into three modules. After completion of each modules an internal assessment was conducted and an overall test was conducted after the completion of the course.

The final results of module I, II, III, and overall were analysed. Approximately 30.7% students scored grade A (marks percentage-91-100%) in all the tests followed by 55.6% who scored grade B (marks percentage-81-90%) and 12.2% scored grade C (marks percentage-71-80%) and 1.5% scored grade D (marks percentage-61-70%). The performance of the students in the tests were found to be excellent. Eighty six percent of the students had scored more than 80% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 30/09/24 and the course participation certificate were distributed to all 11 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr Gururaj S Kulkarni thanked Principal madam and management for providing best infrastructure for carrying out such courses. On behalf of department, she promised to carry out such courses in future also.

The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bangalore had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmaceutics and the course coordinator Mrs. R. Uma Prabha for successful completion of the course.

COURSE COORDINATOR

Mrs.R. Uma Prabha

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Dr Gururaj S Kulkarni

P. Pad wo

Dr Padmaa M Paarakh





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# COURSE ON ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS (Course Code: EAPI 2023-24)

#### ATTENDANCE SHEET

	NAME OF THE STUDENT	1	2	3	4	5	6	7	8	9	10	11	12	11	1.4	15
DATE		2/8	3/8	18	8/8	9/8	10/8		19/8	-	-		-	2-10	-,10	0 10
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5.	Kavya	L.	1	1	1	1	1.	CS	cs	CS	CS	CS	22	25	1	2
6.	Pallavi	200	Bus:	Pos	Da.	Da.	18m		K-	Pus	Da	tur		The	The Date	K
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COURSE CO-ORDINATOR

Mrs.R.Uma Prabha

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Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M Paarakh





# The Oxford College of Pharmacy

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### COURSE ON ECONOMIC ASPECTS OF PHARMACEUTICAL INVENTIONS (Course Code: EAPI 2023-24)

#### ATTENDANCE SHEET

	NAME OF THE STUDENT	1,6	17	18	19	20	21	22					-			
DATE		da	L\Q	0/0	19	20	21	22	23	24	25	26	27	28	29	30
1.	Ananya	0	6	8	6	13/	6	1919	70/9	الم	21/4	23/9	22/9	21)4	28 9	289
2.	Arroju Hritjik	8CF	04	10	O	80	41	10	10	14	6	16	10	W	6	14
3.	B G Shravanya	10	PR	- Br.	W.	8	120	K	Mo	P	PIL	- 191	1	- 17	-UK	- 6
4.	Chethan Sheshadri	1	1	14	V	1	00	7	1	100	1	13	-	1	10	2
5.	Kavya	R	V	1	6	100	6	6	1	-	-	-	-	طوا	الميل	0
6.	Pallavi	21	0	31	0	0	0	0	1	8	0	1	6	1	1	4
7.	Sanjay	40	0	2	2	1	0		2	2	5	- 54	24	20	EN.	X
8.	Shaikbaji	A	R	1	12	1	200	1	1	TE	2	7	1	1	100	3
9.	Soundarya	0	3	0	CL	0	0	-0	8	c	Car	-	0	0	1	5
10.	Surya		4	Q	N	Do	3	6	0	6	0	6	100	B	S	S
11.	Priyanka	R	2	1	0.	0	7	0	0	8	8	3	R	*	1	8
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COURSE COORDINATOR

Mrs.R.Uma Prabha

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh







# **PARTICIPATION CERTIFICATE**

Course Coordinator

HOD

P. Pad use Principal

Mrs. R.Uma Prabha

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr. Padmaa M Paarakh





# PARTICIPATION CERTIFICATE

Course Cordinator

HOD

Principal

Mrs. R.Uma Prabha
Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni Dept. of Pharmaceutics The Oxford College of Pharmacy

Dr. Padmaa M Paarakh The Oxford College of Pharmac





# PARTICIPATION CERTIFICATE

Course Cordinator

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Principal

Mrs. R.Uma Prabha
Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni Dept. of Pharmaceutics The Oxford College of Pharmacy

Dr. Padmaa M Paarakh
The Oxford College of Pharmacy





# **PARTICIPATION CERTIFICATE**

This is to certify that ....B.G. SHRAYANYA......of .I. SEM. HPHARM has undergone a *course on economic aspects of pharmaceutical inventions* held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-2024.

Course Coordinator

ноб

Principal

Mrs. R.Uma Prabha
Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni Dept. of Pharmaceutics The Oxford College of Pharmacy

Dr. Padmaa M Paarakh
The Oxford College of Pharmac





# THE OXFORD COLLEGE OF PHARMACY

# 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

# PARTICIPATION CERTIFICATE

Course Coordinator

ноб

Principal Principal

Mrs. R.Uma Prabha
Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni Dept. of Pharmaceutics The Oxford College of Pharmacy

Dr. Padmaa M Paarakh



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# COURSE ON PHARMA LOGISTICS - TRENDS, CHALLENGES AND OPPORTUNITIES

(Course Code:PLTCO 2023-24)

Notice

Date: 27/02/2024

To

Notice Board

To be read in the class rooms

Course Co-ordinator- Dr. Vikram. T

To be filed

The Oxford College of Pharmacy, Bengaluru introduces a 30 hours course on Pharma logistics-Trends, c hallenges and opportunities for the academic year 2023-24, for the benefit of VII Sem B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 5<sup>th</sup> March 2024 and will be conducted every Tuesday and Saturday after class hours. The eligibility criteria include students pursuing Pharmacy degree of VII Sem B. Pharm students. Interested students can enroll with Dr. Vikram. T, course co-ordinator on or before 4<sup>th</sup> march 2024.

Course Co-ordinator

Dr. Vikram T

Dr Gururaj S Kulkarni

Dr Padmaa M. Paarakh

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru -560 068

①: +91-80-61754694; Fax: +91-80-61754699; www.theoxford.edu
e-mail: pharmacyprincipal@theoxford.edu

### Organizing Committee

Dr. Padmaa M Paarakh. Chairperson Principal, TOCP, Bangalore. HOD Dr Gururaj S Kulkarni Department of Pharmaceutics TOCP, Bangalore. Program Dr. Vikram T Coordinator Assistant Professor Department of Pharmaceutics TOCP. Bangalore

### For Further Information Contact

Dr. Vikram T
Department of Pharmaceutics
TOCP, Bangalore
Email:
vikramtchoudhary4@gmail.com

### THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Pharm D. Pharm D Post Baccalaureate and PhD Programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences. Karnataka, and Drug control Board. Karnataka respectively, approved by A.I.C.T.E and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments. laboratories, lecture halls, etc.

### **ELIGIBILITY CRITERIA**

Students Pursuing Pharmacy Degree i.e., B. Pharm students.

# Course On "PHARMA LOGISTICS – TRENDS, CHALLENGES AND OPPORTUNITIES"



### Organized by

### THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutics 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

#### **Important Dates**

**Duration: 30 hours** 

Last date for registration: 4 March 2024
Date of commencement: 5 March 2024

Planned Examination: June 2024

### REGISTRATION

Registration

NIL

Fees

It is a free course offered by The Oxford College of Pharmacy Bangalore-68

Contact person for registartion Dr. Vikram. T 9901007009

### STRUCTURE

- Course will be conducted for 30 hours.
- Every Tuesday and Saturday after the college hours.

### COURSE DESCRIPTION

The Department of Pharmaceutics Bangalore-560068 TOCP . introduces a thirty hours certificate course on Pharma logistics- trends, opportunities challenges and (course code: PLTCO 2023-24). This course offers the basic the knowledge Understanding fundamentals of pharma logistics and understand the to ulatory landscape governing ma logistics.

# OBJECTIVES OF PROGRAM

- Understand the regulatory landscape governing pharma logistics, including compliance with Good Distribution Practices (GDP) and relevant documentation.
- Understanding the fundamentals of pharma logisticsGrasp the key concepts, terminologies, and components of pharmaceutical logistics within the supply chain

### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

#### **DURATION**

Thirty hours beginning from 5th March 2024.

### OUTCOME

At the end of this course students were able to:

- Demonstrate a thorough understanding of the key components and functions of pharma logistics.
- Apply knowledge of regulatory requirements and good distribution practices to ensure compliance in logistics operation.
- To identify and assess key challenges in pharma logistics.
- To recognise and evaluate potential opportunities for innovations and improvement in pharma logistics.
- 5) To emply critical thinking and problem solving skill to analyze real – world scenarios and develop actionable solutions in pharma logistics.

### REGISTRATION PROCESS

Directly contact Course Co-Ordinator and register.

### Condition society (Regol)



# The Oxford College of Pharmacy

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### COURSE ON PHARMA LOGISTICS - TRENDS, CHALLENGES AND OPPORTUNITIES

(Course Code:PLTCO 2023-24)

#### REGISTRATION LIST

SL.NO	STUDENT NAME	SIGNATURE
1	RAKSHITHA S	Regards
2	SADAF FAROOQ	Satisfied
3	SAHANA H S	Corne H
4	SAMARPITA NATH	Ar
5	SANDRA S S	Sakdrass
6	SANJANA R	haft
7	SAPNA S KUMBAR	800
8	SAVITHA S	San-
9	SAYAK KULEY	8ks
10	SHAIK HUMAYUN	Mails H

09

COURSE CO-ORDINATOR

DR. VIKRAM. T

HOD

DR GURURAJ S KULKARNI

PRINCIPAL.

DR PADMAA M. PAARAKH



No 6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru - 560 068

(2): +91-80 - 61754694, Fax: +91-80 -61754699; www.theoxford.edu
e-mail: pharmacyprincipal@theoxford.edu;

United a Education Society (Rego.)

### The Oxford College of Pharmacy

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Impact of Global trade policies on pharma logistics

Pharmaceutical Waste Management Practices

Case Studies on successful pharma logistics stratergies

Lessons learned from supply chain failure

Benchmarking Against Industry Leaders

Future trends in Pharma logistics

COURSE CO-ORDINATOR

нов

Dr Padmaa M. Paarakh

Dr. Vikram. T

Dr Gururaj S Kulkarni



# The Oxford College of Pharmacy

Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, Approved by Pharmacy Council of India, New Delhi)

# COURSE ON PHARMA LOGISTICS - TRENDS, CHALLENGES AND OPPORTUNITIES (Course Code: PLTCO 2023-24)

			Session Plan		
SL.NO	DATE	DAY	TIME	MODULE	FACULTY
				INAUGURAL	Dr. Padmaa M Paarak
1	5/3/2024	TUESDAY	4:30PM-5:30PM	MODULE-1	Dr. Vikram. T
2	9/3/2024	SATURDAY	1:00PM-2:00PM	MODULE-1	Dr. Vikram. T
3	12/3/2024	TUESDAY	4:30PM-5:30PM	MODULE-1	Dr. Vikram. T
4	16/3/2024	SATURDAY	1:00PM-2:00PM	MODULE-1	Dr. Vikram. T
5	19/3/2024	TUESDAY	4:30PM-5:30PM	MODULE-1	Dr. Vikram. T
6	23/3/2024	SATURDAY	1:00PM-2:00PM	MODULE-1	Dr. Vikram. T
7	26/3/2024	TUESDAY	4:30PM-5:30PM	MODULE-1	
8	30/3/2024	SATURDAY	1:00PM-2:00PM		Dr. Vikram. T
9	2/4/2024	TUESDAY	4:30PM-5:30PM	MODULE-1	Dr. Vikram. T
10	6/4/2024	SATURDAY	1:00PM-2:00PM	MODULE-1	Dr. Vikram. T
11	13/4/2024		1:00PM-2:00PM	MODULE-1	Dr. Vikram. T
12	16/4/2024	SATURDAY	4:30PM-5:30PM	MODULE-1	Dr. Vikram. T
13	20/4/2024	TUESDAY		MODULE-2	Dr. Vikram. T
		SATURDAY	1:00PM-2:00PM	MODULE-2	Dr. Vikram. T
14	23/4/2024	TUESDAY	4:30PM-5:30PM	MODULE-2	Dr. Vikram. T
15	27/4/2024	SATURDAY	1:00PM-2:00PM	MODULE-2	Dr. Vikram. T
16	30/4/2024	TUESDAY	4:30PM-5:30PM	MODULE-2	Dr. Vikram. T
17	4/5/2024	SATURDAY	1:00PM-2:00PM	MODULE-2	Mr. Rishav Kumar Jain
18	14/5/2024	TUESDAY	4:30PM-5:30PM	MODULE-2	Dr. Vikram. T
19	18/5/2024	SATURDAY	1:00PM-2:00PM	MODULE-2	Dr. Vikram. T
20	21/5/2024	TUESDAY	4:30PM-5:30PM	MODULE-2	Dr. Vikram. T
21	25/5/2024	SATURDAY	1;00PM-2;00PM	MODULE-2	Dr. Vikram. T







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22	28/5/2024	SATURDAY	1:00PM-2:00PM	MODULE-3	Dr Vikram T
23	1/6/2024	TUESDAY	4:30PM-5:30PM	MODULE-3	Dr Vikram T
24	4/6/2024	SATURDAY	1:00PM-2:00PM	MODULE-3	Dr Vikram I
25	8/6/2024	TUESDAY	4:30PM-5:30PM	MODULE-3	Dr. Vikram T
26	11/6/2024	SATURDAY	1:00PM-2:00PM	MODULE-3	Dr Vikram I
27	15/6/2024	TUESDAY	4:30PM-5:30PM	MODULE-3	Dr Vikram I
28	18/6/2024	SATURDAY	1:00PM-2:00PM	MODULE-3	Dr. Vikram. T
29	22/6/2024	TUESDAY	4:30PM-5:30PM	MODULE-3	Dr. Vikram. T
30	25/6/2024	SATURDAY	1:00PM-2:00PM	MODULE-3	Dr. Vikram. T
31	29/6/2024	TUESDAY	4:30PM-5:30PM	VALEDICTOR Y	Dr Gururaj S Kulkarni

as

COURSE CO-ORDINATOR

DR. VIKRAM. T

ной

DR GURURAJ S KULKARNI

P. Pad us PRINCIPAL

DR PADMAA M. PAARAKH



# The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka; Approved by Pharmacy Council of India, New Delhi)

### COURSE ON PHARMA LOGISTICS - TRENDS, CHALLENGES AND OPPORTUNITIES

#### (Course Code:PLTCO 2023-24)

#### Outcome Report

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bengaluru- 560068, completed a course on Pharma logistics – Trends, Challenges and Opportunities (course code PLTCO 2023-24). 10 students were registered and the course was conducted for 30 hours. This course has helped the students to understand the basic concept of Understanding the fundamentals of pharma logistics and and to understand the regulatory landscape governing pharma logistics.

Outcome: At the end of this course students were able to:

- Demonstrate a thorough understanding of the key components and functions of pharma logistics within the broader supply chain context.
- Apply knowledge of regulatory requirements and good distribution practices to ensure compliance in logistics operation.
- To identify and assess key challenges in pharma logistics.
- To recognise and evaluate potential opportunities for innovations and improvement in pharma logistics.
- To apply critical thinking and problem solving skill to analyze real world scenarios and develop actionable solutions in pharma logistics.

The students were satisfied and were keen to attend such programs in future.

COURSE CO-ORDINATOR

Dr. Vikram T

101

Dr Gururaj S Kulkarni

Dr Padmaa M. Paarakh

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru – 560 068 D: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu



# The Oxford College of Pharmacy

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# COURSE ON PHARMA LOGISTICS - TRENDS, CHALLENGES AND OPPORTUNITIES (Course Code: PLTCO 2023-24)

#### Completion Report

The Department of Pharmaceutics, The Oxford college of Pharmacy, Bengaluru, conducted a course on Pharma logistics – trends, challenges and opportunities (Course Code: PLTCO 2023-24) for the academic year 2023-24. Studies on critical analysis of trends, regulatory compliency proficiency, inventory management, cyber security, real time tracking, pharma supply chain.

The course was started with a formal inaugural function started by welcoming the Principal Dr.Padmaa M Paarakh. The function was conducted offline and all the participants were introduced by Dr. Vikram . T. Course Coordinator. Our Principal and Director had emphasized on the importance of doing such courses in academics as well as in future also. The inaugural function has been summed up with the introductory lecture of course coordinator Dr. Vikram. T.

A total 30 hours course had been conducted after the college hours on Tuesday and Saturday. 10 students attended the course and benefited. The syllabus of the course had been divided into three modules. After the completion of each module an internal assessment was conducted and overall test was conducted after the completion of the course. After the completion of each module the tests were assigned in the Assignment section. Approximately 72.61 % students scored grade A (marks percentage-95-100%) in all the tests followed by 8.86 % who scored grade B (marks percentage-90-94%) and % scored grade C 9.87 % (marks percentage-85-90 %) and 9.0 % scored grade D (marks percentage-75-84 %). The performance of the students in the tests were found to be excellent. About 81.47% of the students had scored more than 95% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory function has been conducted on 29/06/2024 and the course participation certificates were distributed to all 10 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr Gururaj S Kulkarni. Dr Gururaj S Kulkarni thanked Principal Madam and management for providing best infrastructure for carrying out such courses. On behalf of Pharmaceutics department, he promised to carry out such courses in future also.

(Nildran's Education Society (Regil.)

# The Oxford College of Pharmacy

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The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bengaluru had appreciated the enthusiasm of the students in this course and also thanked the Department of Pharmaceutics, and the course coordinator Dr. Vikram. T for successful completion of the course

COURSE CO-ORDINATOR

101

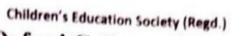
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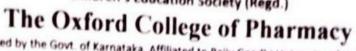
P Pad us

Dr. Vikram. T

Dr Gururaj S Kulkarni

Dr. Padmaa M. Paarakh





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# COURSE ON PHARMA LOGISTICS – TRENDS, CHALLENGES AND OPPORTUNITIES (Course Code: PLTCO 2023-24) ATTENDANCE STATEMENT

S.N	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Date of the Class	71,	it,	14	रन्	157	10	30	zf.	= 1	111	10	70		.,	
1	RAKSHITHA S	0	6	0	0	10	6	3	0	0	4	4	-	4	1.74	1
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	SIGNATURE OF TEACHER	w	e	A	Or	O.	al	e	u	va.	Nr.	Ø.	a	Ø1	1ge	Me



The Oxford College of Pharmacy

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Approved by Pharmacy Council of India, Niew Delhil

S.N	Name of the student	16	17	18	19	28	21	22	23	14	25	26	27	28	29	30
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4	SAMARPITA NATH	Q	0	C	0	0	0	3	0	3	0	0	0	0	0	0
5	SANDRA S S	0	0	0	0	30	7	7	3	0	7	2	7.	7	4	15
6	SANJANA R	0	6	0	0	0	0	2	0	3	- 50	- 5	1	×	Se.	2
7	SAPNA S KUMBAR	2	10	2	>	2	0	35	-	2	1	2 5	3 .	5	<	5
8	SAVITHA S	0	0	0	5	0	-	2	2	0	5	- 5	0	5	0	5
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	SIGNATURE OF TEACHER	W.L.		W.L						شه	e.				UL.	





# PARTICIPATION CERTIFICATE

This is to certify that .....RAKSHITHA....S......of VII SEM B.Pharm has undergone an *Course on Pharma Logistics- Trends, Challenges and Opportunities* held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

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Course Co-ordinator

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Principal

Dr. Vikram T

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr. Gururaj S Kulkarni

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr. Padmaa M Paarakh





# PARTICIPATION CERTIFICATE

This is to certify that ... SADAF FAROOQ......of VII SEM B.Pharm has undergone an *Course on Pharma Logistics- Trends, Challenges and Opportunities* held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

S C S

Course Co-ordinator

HOD

Principal

Dr. Vikram T

Dept. of Pharmaceutics The Oxford College of Pharmacy Dr. Gururaj S Kulkarni

Dept. of Pharmaceutics The Oxford College of Pharmacy Dr. Padmaa M Paarakh





# PARTICIPATION CERTIFICATE

This is to certify that .....SAHANA...HS....of VII SEM B.Pharm has undergone an *Course on Pharma Logistics- Trends, Challenges and Opportunities* held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

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Course Co-ordinator

HÖD

P Pad we Principal

Dr. Vikram T

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr. Gururaj S Kulkarni

Dept. of Pharmaceutics The Oxford College of Pharmacy Dr. Padmaa M Paarakh





# **PARTICIPATION CERTIFICATE**

This is to certify that ...SANDRA SS....of VII SEM B.Pharm has undergone an *Course on Pharma Logistics- Trends, Challenges and Opportunities* held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

Course Co-ordinator

нор

P. Pad wa Principal

Dr. Vikram T

Dept. of Pharmaceutics
The Oxford College of Pharmacy

**Dr. Gururaj S Kulkarni** Dept. of Pharmaceutics

The Oxford College of Pharmacy

Dr. Padmaa M Paarakh





# **PARTICIPATION CERTIFICATE**

This is to certify that .....SAMARPITA NATH.....of VII SEM B.Pharm has undergone an *Course on Pharma Logistics- Trends*, *Challenges and Opportunities* held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-24.

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Course Co-ordinator

HOD

P (Paduo Principal

Dr. Vikram T

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr. Gururaj S Kulkarni

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr. Padmaa M Paarakh

# THE PERSON NAMED IN

Children's Education Society (Regd.)

# The Oxford College of Pharmacy

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# COURSE ON SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS (Course Code: SGPF 2023-2024)

#### NOTICE

Date: 01/01/2024

To

Notice Board

To be read in the class rooms

Course Coordinator - Mrs Adithi P,

To be filed

The Oxford College of Pharmacy, Bengaluru introduces 30 hours course on "SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS" for the academic year 2023-24, for the benefit of VII semester B. Pharm students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 06<sup>th</sup> January 2024. The classes will be conducted every Saturday and Wednesday after the regular class hours. The eligibility criteria include students pursuing Pharmacy degree, that is VII semester B. Pharm students. Interested students can enroll with Mrs Adithi P, course coordinator on or before 04<sup>th</sup> January2024.

COURSE CO-ORDINATOR Mrs Adithi P

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 D: +91-80 - 61754694; Fax: +91-80 -61754699; www.theoxford.edu

### Organizing Committee

Chairperson Dr. Padmaa M Paarakh,

Principal,

TOCP, Bengaluru.

HOD Dr Gururaj S Kulkarni

Department of Pharmaceutics

TOCP, Bengaluru

Program Coordinator Mrs. Adithi P

Assistant Professor

Department of Pharmaceutics TOCP, Bengaluru

### For Further Information Contact

Ms Adithi P
Assistant Professor
Department of Pharmaceutics
TOCP, Bengaluru

Email: adithiniven@gmail.com

### THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Pharm D, Pharm D Post Baccalaureate and PhD Programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Karnataka, and Drug Sciences, control Board. Karnataka respectively, approved by A.I.C.T.E. and Pharmacy Council of India, New Delhi. TOCP has excellent infrastructure in of terms sophisticated instruments, laboratories, lecture halls, etc.

### ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., B. Pharm VII Sem.

# Course On "Regulatory for Medical Devices Requirements"



# Organized by THE OXFORD COLLEGE OF

# PHARMACY

Department of Pharmaceutics 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

**Duration: 30 hours** 

Late date for Registration: 04/1/2024

Date of commencement: 06/1/2024

Date of examination: After completion of

30 hours classes

### REGISTRATION

Registration

NIL

Fees

It is a free course offered by
The Oxford College of
Pharmacy Bengaluru-68

Contact person for

Mrs. Adithi P

registartion

9742213555

### STRUCTURE

- Course will be conducted for 30 hours.
- Every Saturday and Wednesday after the college hours.

### COURSE DESCRIPTION

The Department of Pharmaceutics TOCP Bangalore-560068 introduces a thirty hours certificate course on Sustainable and Green Pharmacy Based Pharmaceutical Formulations (Course Code: SGPF 2023-2024). These course covers a wide range of topics such as Ecofriendly Dug development, Water waste management in armaceuticals, packaging and Vainability etc.

# OBJECTIVES OF PROGRAM

- The main objective of the program is to equip the students with knowledge and skills necessary to develop eco friendly and sustainable pharmaceutical products.
- The course covers topics such as Sustainability in pharmaceutical industry, green chemistry in pharmaceutical manufacturing, energy efficiency in pharmaceutical manufacturing, environmental risk assessments, green manufacturing technologies etc.

### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

#### DURATION

Thirty hours beginning from 6<sup>th</sup> January 2024.

### OUTCOME

At the end of this course students were able to:

- Gain a comprehensive understanding of Green Pharmacy based pharmaceutical formulations.
- Understand the principles of green chemistry and their application in developing eco-friendly pharmaceutical formulations.
- 3. Gain knowledge of sustainable manufacturing practices that reduce environmental hazards in drug production.
- 4. Learn to design pharmaceutical products that are safer for both humans and the environment, with minimized waste and pollution.

### REGISTRATION PROCESS

Directly contact Course Co-Ordinator and register.



# The Oxford College of Pharmacy

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# COURSE ON SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS

urte Code: SCRE 2022 2024

		(Cour	se Code: SGPF 20	23-2024)	
			SESSION PLAN		
SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	06/1/2024	Saturday	1:30-2:30 PM	INAGURAL & MODULE I	Mrs Adithi P
2	10/1/2024	Wednesday	4:00-5:00 PM	MODULE I	Mrs Adithi P
3	13/1/2024	Saturday	1:30-2:30 PM	MODULET	Mrs. Adithi P
4	17/1/2024	Wednesday	4:00-5:00 PM	MODULE 1	Mrs. Adithi P
5	20/1/2024	Saturday	1:30-2:30 PM	MODULE 1	Mrs. Adithi P
6	24/1/2024	Wednesday	4:00-5:00 PM	MODULE 1	Mrs. Adithi P
7	27/1/2024	Saturday	1:30-2:30 PM	MODULE 1	Mrs. Adıthı P
8	31/1/2024	Wednesday	4:00-5:00 PM	MODULE 1	Mrs. Adithi P
9	03/2/2024	Saturday	1:30-2:30 PM	MODULE 1	Mrs. Adithi P
10	07/2/2024	Wednesday	4:00-5:00 PM	MODULE I	Mrs. Adithi P
11	10/2/2024	Saturday	1:30-2:30 PM	MODULE 2	Mrs. Adithi P
12	14/2/2024	Wednesday	4:00-5:00 PM	MODULE 2	Mrs. Adithi P
13	17/2/2024	Saturday	1:30-2:30 PM	MODULE 2	Mrs. Adithi P
14	02/3/2024	Saturday	1:30-2:30 PM	MODULE 2	Mrs. Adithi P
15	06/3/2024	Wednesday	4:00-5:00 PM	MODULE 2	Mrs. Adithi P
16	09/3/2024	Saturday	1:30-2:30 PM	MODULE 2	Mrs. Adithi P
17	13/3/2024	Wednesday	4:00-5:00 PM	MODULE 2	Mrs. Adithi P
18	16/3/2024	Saturday	1:30-2:30 PM	MODULE 3	Mrs. Adithi P
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22	30/3/2024	Saturday	1:30-2:30 PM	MODULE 3	Mrs. Adithi P
23	03/4/2024	Wednesday	4:00-5:00 PM	MODULE 3	Mrs. Adithi P
24	06/4/2024	Saturday	1:30-2:30 PM	MODULE 3	Mrs. Adithi P
25	13/4/2024	Saturday	1:30-2:30 PM	MODULE 3	Mrs. Adithi P
26	17/4/2024	Wednesday	4:00-5:00 PM	MODULE 3	Mrs. Adithi P
27	20/4/2024	Saturday	1:30-2:30 PM	MODULE 3	Mrs. Adithi P
28	24/4/2024	Wednesday	4:00-5:00 PM	MODULE 3	Mrs. Adithi P
29	27/4/2024	Saturday	1:30-2:30 PM	MODULE 3	Mrs. Adithi P
30	4/5/2024	Saturday	1:30-2:30 PM 2:30-3:00 PM	MODULE 3 & VALIDICTORY	Mrs. Adithi P

COURSE CO-ORDINATOR Mrs Adithi P

HOD Dr Gururaj S Kulkarni Dr Padmaa M Paarakh

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No 6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068 2: +91-80 -61754694; Fax: +91-80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu, info@theoxford.edu,



### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandin University of Health Sciences. Kamataka. Approved by Pharmacy Council of India. New Delhii.

### COURSE ON SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL

#### FORMULATIONS

(Course Code: SGPF 2023-2024)

#### REGISTRATION LIST

S.NO	STUDENT NAME	SIGNATURE
1	SHAMITHA JAIN S A	Inamithe Jain
2	SHOMOЛТ DAS	Shonojtoas
3	SHRAVYA	Suraya.
4	SINCHANA URS K N	Sindon
5	SNEHA R V	- Sela-
6	SNEHA BINU	South bir
7	SONAM CHOEDON	Sever
8	SWATHI JANA	Swath James
9	TEJASWINI N	(u)
10	THARUN K	Thanus &
11	THYAGARAJ S	Demonstration.
12	TRISHA LOKESH	i man lokest.
13	VARSHITHA A	Vardito +
14	VIDYASHREE R	Vi dya Strace . R.
15	VINOD KUMAR B G	Und Kund BG/
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COURSE CO-ORDINATOR

Mrs Adithi P

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh



No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru –560 068

②: +91-80 -61754694; Fax: +91-80 -61754699; www.theoxford.edu
e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;



# The Oxford College of Pharmacy

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Approved by Pharmacy Council of Helici New Called

# COURSE ON SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS

(Course Code: SGPF 2023-2024)

MODULE	TOPIC
	Introduction to Green Pharmacy
	Sustainability in the Pharmaceutical Industry
	Eco-Friendly Drug Development
	Sustainable Sourcing of Raw Materials
Module I	Green Chemistry in Pharmaceutical Manufacturing
	Biodegradable Polymers in Drug Formulations
	Nanotechnology in Sustainable Pharmaceuticals
	Eco-friendly Excipients in Pharmaceutical Formulations
	Water Management in Pharmaceutical Manufacturing
	Waste Minimization in Pharmaceutical Production
	Green Solvents in Pharmaceutical Processes
	Energy Efficiency in Pharmaceutical Manufacturing
	Pharmaceutical Packaging and Sustainability
	Carbon Footprint of Pharmaceutical Products
Module II	Green Analytical Chemistry in Pharmaceutical Testing
	Environmental Risk Assessment of Pharmaceuticals
	Biopharmaceuticals and Sustainability
	Plant-based Pharmaceuticals
	Sustainable Clinical Trials
	Pharmaceutical Waste Management
	Regulations and Standards for Green Pharmaceuticals
	Pharmaceutical Product Lifecycle and Sustainability
	Green Manufacturing Technologies
	Role of Biotechnology in Sustainable Drug Formulations
Module III	Renewable Resources in Pharmaceutical Formulations
	Sustainable Drug Delivery Systems
	Circular Economy in Pharmaceutical Industry
	Sustainable Practices in Pharmaceutical R&D
	Consumer Awareness and Sustainable Pharmaceuticals
	Future Trends in Sustainable Pharmaceuticals

COURSE CO-ORDINATOR Mrs Adithi P

HOD Dr Gururaj S Kulkarni

Dr Padmaa M Paarak

Oxford

No 6/9, 1" Cross, Begur Road, Hongasandra, Bengaluru –560 068

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# The Oxford College of Pharmacy

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### ADD ON COURSE ON SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS

(Course Code: SGPF 2023-2024)

#### ATTENDANCE STATEMENT

	NAME OF THE STUDENT	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
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### The Oxford College of Pharmacy

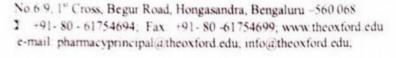
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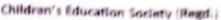
# ADD ON COURSE ON SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS [Course Code: SGPF 2023-2024]

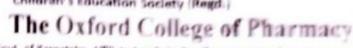
#### ATTENDANCE STATEMENT

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# COURSE ON SUSTAINABLE AND GREEN PHARMACY BASED PHARMACES TICAL

FORMULATIONS (Course Code: SGPF 2023-2024)

#### OUTCOME REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bengaluru- 560668, completed and on SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS (Course Code: SGPF 2023-2024). 21 students registered and the course was conducted for 30 sours. This course was designed to equip the students with knowledge of eco-friendly drug development practices which emphasized on minimizing environmental impact through green chemistry principles.

Outcomes: At the end of this course students were able to

- Gain a comprehensive understanding of Green Pharmacy based pharmaceutical formulations.
- Understand the principles of green chemistry and their application in developing exo-mends pharmaceutical formulations.
- Gain knowledge of sustainable manufacturing practices that reduce environmental hazards in unug production.
- Learn to design pharmaceutical products that are safer for both humans and the environment, with minimized waste and pollution.
- Developed skills to evaluate the lifecycle of pharmaceutical products and implement strategies for sustainable use and disposal.

The students were satisfied and were keen to attend such programs in future.

COURSE CO-ORDINATOR
Mrs Adithi P

HOD Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh

Oxford

No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru - 560 068

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# COURSE ON SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS

(Course Code: SGPF 2023-2024) COMPLETION REPORT

The Department of Pharmaceutics, The Oxford college of Pharmacy, Bengaluru, conducted a course on SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS and sustainability in pharmaceutical research and development. knowledge and skills needed to leverage electrochemical synthesis in their future careers, fostering innovation (Course Code: SGPF 2023-2024) for the academic year 2023-24. The course was intended to impart the

lecture by Mrs Adithi P, Course Coordinator. 21 students have attended the function. The inaugural function has been summed up with the introductor, All the participants were introduced by Dr Gururaj S Kulkarni, HOD, department of pharmaceutics. All the The course was started with a formal inaugural function by welcoming the Principal Dr. Padmaa M Paarakh

each modules an internal assessment was conducted and an overall test was conducted after the completion of the course. The syllabus of the certificate course had been divided into three modules. After completion of A total 30 hours course had been conducted on Saturday and Wednesday. Total 21 students were enrolled for

learning the concepts and the doubts were also clarified after the classes if any they have students had scored more than 80% marks in all the tests. Students had shown keen interest in attending and 90%) and 12.2% scored grade C (marks percentage-71-80%) and 1.5% scored grade D (marks percentage-61-A (marks percentage-91-100%) in all the tests followed by 55.6% who scored grade B (marks percentage81-The final results of module I, II, III, and overall were analysed. Approximately 30.7% students scored grade 70 %). The performance of the students in the tests were found to be excellent. Eighty six percent of the

infrastructure for carrying out such courses. On behalf of department, she promised to carry out such courses S Kulkarni. Dr Gururaj S Kulkarni, thanked Principal madam and management for providing best distributed to all 21 students by the Principal Dr. Padmaa M Paarakh and Head of the Department Dr Gururaj The valedictory function has been conducted on 4/5/2024 and the course participation certificate were

coordinator Mrs Adithi P for successful completion of the course enthusiasm of the students for this course and congratulate the Department of Pharmaceutics and the course The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, TOCP, Bangalore had appreciated the

COURSE CO-ORDINATOR

Mrs Adithi P tarte.

> Dr Gururaj S Kulkarni HOD (

Dr Padmaa M Paarakh

PRINCIPAL US

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#### **PARTICIPATION CERTIFICATE**

Course Coordinator

HOD

Principal

Mrs. Adithi P

Dept. of Pharmaceutics The Oxford College of Pharmacy Dr Gururaj S Kulkarni

Dept. of Pharmaceutics The Oxford College of Pharmacy Dr. Padmaa M Paarakh





#### **PARTICIPATION CERTIFICATE**

Course Coordinator

HOD

Principal uo

Mrs. Adithi P
Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni
Dept. of Pharmaceutics
The Oxford College of Pharmacy





# # 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

#### **PARTICIPATION CERTIFICATE**

Course Coordinator

HOD

Principal Principal

Mrs. Adithi P

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni

Dept. of Pharmaceutics The Oxford College of Pharmacy Dr. Padmaa M Paarakh





# # 6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

#### PARTICIPATION CERTIFICATE

Course Coordinator

HOD

Principal me

Mrs. Adithi P
Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni Dept. of Pharmaceutics The Oxford College of Pharmacy





#### THE OXFORD COLLEGE OF PHARMACY

#6/9, 1ST MAIN, BEGUR ROAD, HONGASANDRA, BENGALURU-560 068

#### **PARTICIPATION CERTIFICATE**

This is to certify that ....SNGHA.R.Y.....of .N.J. Som B. Phorm has undergone a Course on SUSTAINABLE AND GREEN PHARMACY BASED PHARMACEUTICAL FORMULATIONS held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-2024.

Course Coordinator

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P. Pad ma

Mrs. Adithi P

Dept. of Pharmaceutics
The Oxford College of Pharmacy

Dr Gururaj S Kulkarni

Dept. of Pharmaceutics The Oxford College of Pharmacy Dr. Padmaa M Paarakh

#### The Oxford College of Pharmacy

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#### COURSE ON DIGITAL THERAPEUTICS AND SMART DDS.

(Course Code: DTSD 2023-24)
NOTICE

Date: 01-68-2024

To

Notice Board

To be read in the class rooms

Course Coordinator -Mrs. Neethu K C

To be filed

The Oxford College of Pharmacy, Bengaluru introduces 30 hours course on "Digital Therapeutics and Smart DDS" for the academic year 2023-24, for the benefit of IV Pharm D students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is 30 hours. The classes for the course will start from 5<sup>th</sup> August 2024. The classes will be conducted every Wednesday and Saturday after the regular class hours. The eligibility criteria include students pursuing a Doctor of Pharmacy (Pharm D) degree. Interested students can enroll with Mrs. Neethu K C, course coordinator on or before 4<sup>th</sup> August 2024.

COURSE CO-ORDINATOR

Mrs Neethu K C

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh

Oxford

#### Organizing Committee

Chairman

Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.

HOD

Dr. Dr Gururaj S Kulkarni, HOD, Department of Pharmaceutics TOCP, Bengaluru.

Program Coordinators Mrs. Neethu K C,
Assistant professor,
Department of Pharmaceutics
TOCP, Bengaluru.

#### For Further Information Contact

Mrs. Neethu K C

Assistant Professor

Department of Pharmaceutics
TOCP, Bengaluru

Email: neethukc.kc8@gmail.com

# THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm. D (Post D. and Pharm. TOCP is Baccalaureate) programs. Government of the recognized by affiliated to Rajiv Gandhi Karnataka, University of Health Sciences, Karnataka, Control Board, Karnataka and Drug and Pharmacy Council of respectively, India, New Delhi. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

#### **ELIGIBILITY CRITERIA**

Students Pursuing Pharm. D

# Course On "DIGITAL THERAPEUTICS AND SMART DDS"



Organized by

# THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutics 1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

**Duration: 30 hours** 

Late date for Registration:

04/08/2024

Date of commencement: 05/08/2024

Date of examination: After

completion of 30 hours classes

#### REGISTRATION

Registration

Fees

NIL

It is a free course offered by

The Oxford College of Pharmacy Bengaluru-68

Contact

person for registration Mrs Neethu K C 9731546598

#### STRUCTURE

- Course will be conducted for 30 hours.
- The Course will be conducted every Wednesday and Saturday after college hours.

#### COURSE DESCRIPTION

The Department of Pharmaceutics TOCP, Bengaluru introduces a thirty hours certificate course on DIGITAL THERAPEUTICS AND SMART DDS (Course Code: DTSD 2023-24). This course offers pharmacy registrants with the knowledge of digital therapeutics and skills needed to leverage smart drug delivery systems.

## OBJECTIVES OF PROGRAM

- The course provides the knowledge about the digital therapeutics.
- This course will equip pharmacy registrants with the knowledge and skills needed to leverage smart drug delivery systems
- It provide the students with a comprehensive understanding of digital therapeutics and smart drug delivery systems its relevance to pharmaceutical sciences

#### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus.

#### DURATION

☐ Thirty hours.

#### OUTCOME

- Gain a comprehensive understanding of digital therapeutics.
- Apply digital therapeutics in the development of personalized treatments and patient-centered healthcare.
- Leverage smart drug delivery systems
- Create innovative and optimize smart drug delivery mechanisms for greater efficacy and precision.
   The students were satisfied and were keen to attend such programs in future.

#### REGISTRATION PROCESS

☐ Contact your course coordinators and register.

# (A)

#### Children's Education Society (Regd.)

#### The Oxford College of Pharmacy

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#### COURSE ON DIGITAL THERAPEUTICS AND SMART DDS

(Course Code: DTSD 2023-24)

#### REGISTRATION LIST

S.NO	STUDENT NAME	SIGNATURE
1	MOLUNGZANG AIER	Molingrang
2	HARSHDEEP SARVA	Harshdeep
3	KATHIRMANI RAJA S	Kothismani Raja, s
4	ZOMBARKAR MUSKAN	zom Baha.
5	ABIGAIL N MOZHUI	Abigant
6	ANIRBAN DEBNATH	Angebon Debnorth
7	ASHISH ABHRAHAM	A Mar
8	DEBJIT BHAKAT	Delight B
9	DEEPTI CHOUDHARY	Peeple
10	DIMPLE G	the
11	GANANESWAR RAO S	Graneshie
12	HEMA NS	Hend.
13	KEERTHANA C	Kuitlan
14	PADMASHREE M	Padmotor
15	RANJITHA REDDY S	Ranjith -
16	SHASHIKALA D M	Sharlikale
17	SHERLIN HEPZIBAH S	thendin
18	SHUBHASHINI N	Subashi
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21	VINISHA R	Viniela. D

COURSE CO-ORDINATOR Mrs Neethu K C

HOD Dr Gururaj S Kulkarni PRINCIPAL Dr Padmaa M Paarakh



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#### COURSE ON DIGITAL THERAPEUTICS AND SMART DDS

(Course Code: DTSD 2023-24)

SESSION PLAN	S	ESS	ION	PL	AN
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SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	05-08-2024	SATURDAY	1:30-2:30 PM	INAGURAL & MODULE I	Mrs Neethu K (
2	05-08-2024	SATURDAY	2:30-3:30 PM	MODULE 1	Mrs. Neethu K C
3	07-08-2024	WEDNESDAY	4:00-5:00 PM	MODULE 1	Mrs. Neethu K C
4	10-08-2024	SATURDAY	1:30-2:30 PM	MODULE	Mrs. Neethu K (
5	10-08-2024	SATURDAY	2:30-3:30 PM	MODULE I	Mrs Neethu K (
6	14-08-2024	WEDNESDAY	4:00-5:00 PM	MODULE I	Mrs. Neethu K C
7	17-08-2024	SATURDAY	1:30-2:30 PM	MODULE I	Mrs. Neethu K C
8	17-08-2024	SATURDAY	2:30-3:30 PM	MODULE I	Mrs. Neethu K C
9	21-08-2024	WEDNESDAY	4:00-5:00 PM	MODULE 1	Mrs. Neethu K C
10	24-08-2024	SATURDAY	1:30-2:30 PM	MODULE 1	Mrs. Neethu K C
11	24-08-2024	SATURDAY	1:30-2:30 PM	MODULE 2	Mrs. Neethu K C
12	28-08-2024	WEDNESDAY	4:00-5:00 PM	MODULE 2	Mrs. Neethu K C
13	31-08-2024	SATURDAY	1:30-2:30 PM	MODULE 2	Mrs. Neethu K C
14	31-08-2024	SATURDAY	2:30-3:30 PM	MODULE 2	Mrs. Neethu K C
15	04-09-2024	WEDNESDAY	4:00-5:00 PM	MODULE 2	Mrs. Neethu K C
16	21-09-2024	SATURDAY	1:30-2:30 PM	MODULE 2	Mrs. Neethu K C
17	21-09-2024	SATURDAY	2:30-3:30 PM	MODULE 2	Mrs. Neethu K C
18	25-09-2024	WEDNESDAY	4:00-5:00 PM	MODULE 2	Mrs. Neethu K C
19	28-09-2024	SATURDAY	1:30-2:30 PM	MODULE 2	Mrs. Neethu K C
20	28-09-2024	SATURDAY	2:30-3:30 PM	MODULE 2	Mrs. Neethu K C
21	05-10-2024	SATURDAY	1:30-2:30 PM	MODULE 3	Mrs. Neethu K C
22	05-10-2024	SATURDAY	2:30-3:30 PM	MODULE 3	Mrs. Neethu K C
23	09-10-2024	WEDNESDAY	4:00-5:00 PM	MODULE 3	Mrs. Neethu K C
24	16-10-2024	WEDNESDAY	4:00-5:00 PM	MODULE 3	Mrs. Neethu K C
25	19-10-2024	SATURDAY	1:30-2:30 PM	MODULE 3	Mrs. Neethu K C
26	19-10-2024	SATURDAY	2:30-3:30 PM	MODULE 3	Mrs. Neethu K C
27	23-10-2024	WEDNESDAY	4:00-5:00 PM	MODULE 3	Mrs. Neethu K C
28	26-10-2024	SATURDAY	1:30-2:30 PM	MODULE 3	Mrs. Neethu K C
29	26-10-2024	SATURDAY	2:30-3:30 PM	MODULE 3	Mrs. Neethu K C
30	30-10-2024	WEDNESDAY	4:00-5:30 PM	MODULE 3/VALIDICTORY	Mrs. Neethu K C

COURSE CO-ORDINATOR

HOD

P. Padus

Mrs Neethu K C

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru –560 068

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#### COURSE ON DIGITAL THERAPEUTICS AND SMART DDS

(Course Code: DTSD 2023-24)

#### SYLLABUS

	SYLLABUS						
MODULE	TOPIC						
	Introduction of Digital Therapeutics						
	Differences between digital health, digital medicine and digital therapeutic						
	Evolution of digital therapeutics						
	Growing Interest in Digital Therapeutics (DTx)						
	Different types of DTx						
Module I	Major Therapeutic Areas in Digital Therapeutics (DTx)						
	Clinical trials of digital therapeutics						
	Changes in the regulatory framework						
	Commercialization of digital therapeutics						
	Challenges to the Adoption of Digital Therapeutics (DTx)						
	Introduction to smart drug delivery systems						
	Importance of Smart Drug Delivery System						
	Properties of Smart Drug Delivery Systems						
	Stimuli-responsive SDDS						
	Temperature-responsive SDDS						
Module II	Redox-responsive drug delivery system						
Module II	pH-responsive systems						
	Enzyme-responsive drug delivery systems						
	Magnetic-responsive drug delivery systems						
	Light and US responsive						
	Other responsive systems						
	Stimuli-Responsive Drug Delivery Systems Under Clinical Investigation						
	Smart nanoscale DDS						
	Polymeric nanoparticles						
	Liposomes						
Module III	Organic-inorganic hybrid smart nanoparticles						
	Exosomes						
	Application of Smart Drug Delivery Systems						
	Challenges of Smart Drug Delivery Systems						

COURSE CO-ORDINATOR Mrs Neethu K C

HOD Dr Gururaj S Kulkarni P. Pad us PRINCIPAL Dr Padmaa M Paarakh



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#### COURSE ON DIGITAL THERAPEUTICS AND SMART DDS

(Course Code: D13D 2023-24)

#### COMPLETION REPORT

The Department of Pharmaceutics at The Oxford College of Pharmacy, Bangalore, organized a course on Digital Therapeutics and Smart Drug Delivery Systems (Course Code: DTSD 2023-24) during the academic year 2023-24. This course was designed to equip students with the knowledge and skills necessary to apply digital therapeutics and advanced smart DDS technologies in their future pharmaceutical careers, driving innovation and improving therapeutic outcomes.

The course commenced with an inaugural session, where the Principal, Dr. Padmaa M Paarakh, was formally welcomed. Dr. Gururaj & Kulkarni, Head of the Pharmaceutics Department, introduced the participants to the event, with 21 students in attendance. The opening session concluded with an introductory lecture delivered by the Course Coordinator, Mrs. Neethu K C. Spanning a total of 30 hours, the course was conducted on Wednesdays and Saturdays, with 21 students enrolled. The syllabus was divided into three comprehensive modules. After the completion of each module, an internal assessment was conducted, followed by a final examination at the end of the course.

The final results of module 1, II, III, and overall were analysed. Approximately 28.58% students scored grade A (marks percentage-91-100%) in all the tests followed by 47.66% who scored grade B (marks percentage-81-90%) and 23.81% scored grade C (marks percentage-71-80%). The performance of the students in the tests were found to be excellent. Seventy six percent of the students had scored more than 80% marks in all the tests. Students had shown keen interest in attending and learning the concepts and the doubts were also clarified after the classes if any they have.

The valedictory ceremony took place on 30/10/24, during which participation certificates were awarded to all 21 students by the Principal, Dr. Padmaa M Paarakh, and the Head of the Department, Dr. Gururaj S Kulkarni. Dr. Gururaj S Kulkarni expressed gratitude to the Principal and the management for providing the infrastructure needed to conduct such enriching courses. On behalf of the department, she also assured the continuation of similar programs in the future. In her address at the valedictory function, Dr. Padmaa M Paarakh congratulated the students for their dedication to the course and commended the Department of Pharmaceutics, as well as the Course Coordinator, Mrs. Neethu K C, for the successful completion of the program.

COURSE CO-ORDINATOR

Mrs Neethu K C

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh

# (A)

#### Children's Education Society (Regd.)

#### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON DIGITAL THERAPEUTICS AND SMART DDS

(Course Code: DTSD 2023-24)

#### **OUTCOME REPORT**

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The Department of Pharmaceutics, The Oxford College of Pharmacy, Bengaluru- 560068, completed course on DIGITAL THERAPEUTICS AND SMART DDS. (Course Code: DTSD 2023-24). 30 students registered and the course was conducted for 30 hours. This course focused on equipping pharmacy registrants with the skills to innovate and ensure sustainability in pharmaceutical research and development through digital therapeutics and smart DDS.

Outcomes: At the end of this course students were able to

- Gain a comprehensive understanding of digital therapeutics.
- Apply digital therapeutics in the development of personalized treatments and patient-centered healthcare.
- · Leverage smart drug delivery systems
- Create innovative and optimize smart drug delivery mechanisms for greater efficacy and precision.
   The students were satisfied and were keen to attend such programs in future.

COURSE CO-ORDINATOR

HOD

PRINCIPAL

Mrs Neethu K C

Dr Gururaj S Kulkarni

Dr Padmaa M Paarakh



#### The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, Approved by Pharmacy Council of India, New Delhi)

#### COURSE ON DIGITAL THERAPEUTICS AND SMART DDS

(Course Code: DTSD 2023-24)

ATTENDANCE SHEET

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#### COURSE ON DIGITAL THERAPEUTICS AND SMART DDS

(Course Code: DTSD 2023-24)

ATTENDANCE SHEET

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3	NAME OF THE STUDENT	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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#### PARTICIPATION CERTIFICATE

This is to certify that .. DEEPTI. CHRYDHARY... of IV. Rhow. ... D... has undergone a Course on DIGITAL THERAPEUTICS AND SMART DDS held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-2024.

Course Coordinator

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This is to certify that ASHISH. ABHRAHAM....of W. PHARM.D... has undergone a Course on DIGITAL THERAPEUTICS AND SMART DDS held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-2024.

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Dr. Padmaa M Paarakh





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#### **PARTICIPATION CERTIFICATE**

This is to certify that .HE.MA...N.S......of .IN.P.HARM.Q.. has undergone a *Course on DIGITAL THERAPEUTICS AND SMART DDS* held at the Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year 2023-2024.

Course Coordinator

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The Oxford College of Pharmacy

Dr. Padmaa M Paarakh





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Course Coordinator

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