



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)

## LIST OF ADD ON COURSES FOR ACADEMIC YEAR 2022-2023

SL NO	Department	Name of add on Course	Course Code	Duration	Period (Date to Date)	Number of Students
1.	Department of Pharmacognosy	Course in HPTLC, HPLC and GC analysis of crude drugs.	HGACD 2022-23	30 hrs.	7/1/23 to 27/3/23	20
2.	Department of Pharmacognosy	Course in Natural immunity boosting drugs as therapeutic interventions	NIBD 2022-23	30 hrs.	25/1/23 to 29/4/23	17
3.	Department of Pharmacognosy	Course on Monograph Analysis of Crude Drug	MACD 2022-23	30 hrs.	5/8/23 to 21/10/23	15
4.	Department of Pharmacognosy	Course on Bioassay Guided Isolation and Evaluation of Herbal drugs	BAIEH 2022-23	30 hrs.	24/7/23 to 21/10/23	21
5.	Department of Pharmacognosy	Course on Application of Plant Tissue Culture	PTC 2022-23	30 hrs.	5/1/23 to 31/3/23	10
6.	Department of Pharmaceutical chemistry	Course in Green Chemistry	GRCH 2022-23	30 hrs.	6/1/23 to 15/4/23	15
7.	Department of Pharmaceutical chemistry	Course on Molecular Docking	MDOC 2022-23	30 hrs.	5/8/23 to 6/10/23	15
8.	Department of Pharmaceutical chemistry	Course on Applied Bioinformatics	APBI 2022-23	30 hrs.	7/1/23 to 13/5/23	12
9.	Department of Pharmaceutical chemistry	Course on Pharma Marketing	PM 2022-23	30 hrs.	6/1/23 to 29/4/23	16
10.	Department of Pharmaceutical chemistry	Course on Research & Review paper, Research Proposal Writing skill	RRPWS 2022-23	30 hrs.	17/2/23 to 11/5/23	16
11.	Department of Pharmacology	Course on In vivo-Mutagenicity and Teratogenicity	IVMT 2022-23	30 hrs.	28/1/23 to 15/5/23	15
12.	Department of Pharmacology	Course on Cell Free Transcription & Translation	CFTXTL 2022-23	30 hrs.	13/1/23 to 12/5/23	14

P. Padma  
PRINCIPAL



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru -560 068  
☎: +91- 80 - 61754694; Fax: +91- 80 -61754699; www.theoxford.edu  
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Bangalore - 560 068



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13.	Department of Pharmacology	Course on Osteopharmacology	OSP 2022-23	30 hrs.	4/8/23 to 24/11/23	14
14.	Department of Pharmacology	Course on Pharmacogenomics and genomics Data analysis	PGGDA 2022-23	30 hrs.	1/7/23 to 18/10/23	20
15.	Department of Pharmacology	Course on Spectroscopic Methods for the Detection of Microbial Pathogens and Diagnostics of Infectious diseases	SDM 2022-23	30 hrs.	05/08/22 to 12/11/22	13
16.	Department of Pharmacy practice	Course on Clinical Data Management	CDM 2022-23	30 hrs.	6/1/23 to 12/5/23	10
17.	Department of Pharmacy practice	Course on Understanding Clinical Documents & Software Used in Clinical Setting	UCDS 2022-23	30 hrs.	15/7/23 to 23/9/23	12
18.	Department of Pharmacy practice	Course on First Aid & Emergency Care by Pharmacist	FEC 2022-23	30 hrs.	8/2/23 to 7/6/23	12
19.	Department of Pharmacy practice	Course on Basic Terminology in Pharmacovigilance	BTP 2022-23	30 hrs.	5/8/23 to 25/9/23	20
20.	Department of Pharmacy practice	Course on Prescription Handling Management & Analysis of Prescription	PHA 2022-23	30 hrs.	5/5/23 to 18/8/23	25
21.	Department of Pharmaceutics	Course on Medications You Need To Know	MNK 2022-23	30 hrs.	7/1/23 to 29/4/23	11
22.	Department of Pharmaceutics	Course on Food Regulations	CCFR 2022-23	30 hrs.	7/1/23 to 24/4/23	34
23.	Department of Pharmaceutics	Course on Medical Devices	CCMD 2022-23	30 hrs.	5/8/23 to 21/10/23	14
24.	Department of Pharmaceutics	Course on Polymers & Its Significance in Novel Drug Delivery System	PNDDS 2022-23	30 hrs.	8/7/23 to 19/9/23	19
25.	Department of Pharmaceutics	Course on Knowledge Enrichment on Unit Processing of Tablets	UPT 2022-23	30 hrs.	8/4/23 to 29/5/23	19



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**Course in HPTLC, HPLC and GC analysis of crude drugs**

**(Course Code: HGACD2022-23)**

**NOTICE**

**Date: 28.12.2022**

To

**Notice Board**

To be read in the class rooms

Course Coordinator -Dr Padmaa M Paarakh

To be filed

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** Course in HPTLC, HPLC and GC analysis of crude drugs for the academic year 2022-23, for the benefit of M.Pharm, B. Pharm, Pharm.D and Pharm D (Post Baccalaureate) 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 7<sup>th</sup> January 2023 and will be conducted after the college hours on Saturday and Monday. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B. Pharm, Pharm.D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Dr Padmaa M Paarakh, Course coordinator on or before 4<sup>th</sup> January 2023.

*P. Padmaa*  
Coordinator

**Dr. Padmaa M Paarakh**

*P. Padmaa*  
HOD

**Dr. Padmaa M Paarakh**

*P. Padmaa*  
Principal

**Dr. Padmaa M Paarakh**



## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD & Course Coordinator	Dr. Padmaa M Paarakh, Dept of Pharmacognosy TOCP, Bengaluru.

## For Further Information Contact

Dr. Padmaa M Paarakh  
Professor,  
Department of Pharmacognosy,  
TOCP, Bengaluru.  
Email:  
[padmaampaarakh@gmail.com](mailto:padmaampaarakh@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.

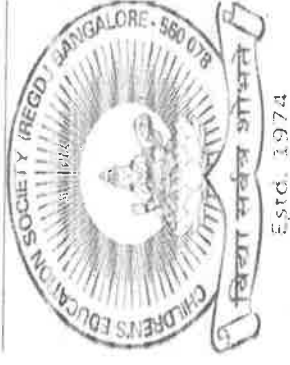
## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., B. Pharm. Students from third, fourth, fifth, sixth; seventh, eighth semesters B. Pharm, Pharm. D, Pharm. D (PB), M. Pharm.

Course

On

## “HPTLC, HPLC & GC analysis of crude drugs”



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: 4<sup>th</sup> January 2023

Date of commencement: 7<sup>th</sup> January 2023

Final Examination : March 2023



## REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact person for registration	Dr Padmaa M Paarakh Course Coordinator 9880681532

## STRUCTURE

- Course will be conducted for total **30 hours** after the college hours.
- Course will be conducted through offline mode.
- Every Monday and Saturday after the college hours (offline).

## COURSE DESCRIPTION

The Department of Pharmacognosy, TOCP, Bengaluru introduces a thirty hours course on HPTLC, HPLC & GC analysis of crude drugs (Course Code: HGACD 2022-23). This course offers the basic knowledge about HPTLC, HPLC and GC application in analysis of crude drug.

## OBJECTIVES OF THE TRAINING PROGRAM

- To gain knowledge about the analytical method like HPTLC, HPLC and GC.
- Number of the analytical method are available but chosen method should be sensitive, specific, fast and accurate to carrying out analysis.
- The present course is aimed towards a better understanding of the basic concepts and advances in analytical technique in HPTLC, HPLC and GC and characterization of crude drug.

## FINAL ASSESSMENT

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

## DURATION

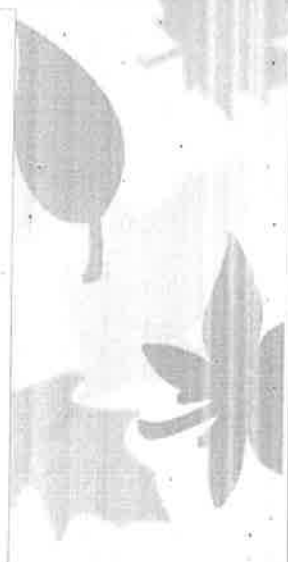
**Thirty hours** beginning from 7<sup>th</sup> January 2023

## COURSE OUTCOME

- This course provides an overview of Advanced analytical instrumental technique like HPLC, HPLC and GC.
- Role of HPTLC, HPLC and GC in identification, characterization and quantification of drug
- Acquiring Skills in selecting the suitable techniques for analysis of crude drugs
- To apply the knowledge learnt in developing new procedures for analysis of crude drug.

## REGISTRATION PROCESS

Students can directly contact respective class teachers and register.





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Course in HPTLC, HPLC and GC analysis of crude drugs

(Course Code: HGACD2022-23)

List of students

S.No.	Regn No	Name of the Students	Signature
1.	20P5620	BANU PRIYA.D	Banu Priya
2.	20P5621	BHUVANESHWARI	Bhuvaneshwari
3.	20P5622	POVINDHAR	Povindhar
4.	20P5624	CHAITHRA .K	Chaitra
5.	20P5625	CHANDANA. N	Chandana N
6.	20P5626	DEEPTHI R	Deepthi R
7.	20P5628	DHRUVA.R	Dhruva R
8.	20P5629	GAGANA K	Gagana K
9.	20P5630	GIRESHA NAIDU	Giresha Naidu
10.	20P5632	GOWTHAM GOWDA	Gowtham Gowda
11.	20P5633	HARI KISHOR	Hari Kishore
12.	20P5634	HARITHA R	Haritha R
13.	20P5636	HRUTHIKA B	Hruthika B
14.	20P5637	IYSWARYA. G. M	Iyswarya G M
15.	20P5639	KARTHIK	Karthik
16.	20P5640	KAVYA P REDDY	Kavya P Reddy
17.	20P5642	KIRAN G M	Kiran G M
18.	20P5644	KRUTHIC REVANTH	Kruthic Revanth
19.	20P5645	KRUTHIKA S.G	Kruthika S.G
20.	20P5648	MADHU SHREE R	Madhu Shree R

P. Padma  
Coordinator

Dr. Padmaa M Paarakh

P. Padma  
HOD & Principal

Dr. Padmaa M Paarakh



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**Course in HPTLC, HPLC and GC analysis of crude drugs**  
**(Course Code: HGACD2022-23)**  
**Syllabus**

Module	Chapter/Topic
Module 1	HPTLC-Introduction, basic principle, difference between HPTLC and TLC
	HPTLC- Instrumentation
	Validation of HPTLC
	Applications of HPTLC
	HPLC-introduction, comparison with column chromatography
	Types of HPLC techniques
	Parameters involved in HPLC method of separation
	HPLC- instrumentation
	Applications of HPLC
	Comparative study between HPTLC and HPLC
	GC- Introduction, basic principle
	GC- Instrumentation
	Factors affecting the separation of components
	Applications of GC
Module 2	Assay of <i>Aloes</i> by HPTLC
	Assay of <i>Withania somnifera</i> by HPTLC
	Assay of <i>Ocimum tenuiflorum</i> by HPTLC
	Assay of <i>Aegle marmelos</i> by HPTLC
	Assay of <i>Emblica officinalis</i> by HPTLC
	Assay of <i>Phyllanthus amarus</i> by HPLC
	Assay of <i>Mucuna pruriens</i> by HPLC
	Assay of <i>Centella asiatica</i> by HPLC
Assay of <i>Acacia nilotica</i> by HPLC	
Module 3	Assay of <i>Cassia occidentalis</i> by GLC
	Assay of <i>Cinnamomum verum</i> by GLC
	Assay of <i>Curcuma amada</i> by GLC
	Assay of <i>Elettaria cardamomum</i> by GLC
	Assay of <i>Moringa oleifera</i> by GLC

  
Coordinator

Dr. Padmaa M Paarakh

  
HOD

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**Course in HPTLC, HPLC and GC analysis of rude drugs**

**(Course Code: HGACD2022-23)**

**Session timetable**

S No	Date	Day	Time	Module	Faculty
1.	07.01.2023	Saturday	1.30 to 2.30 PM	Inaugural Module 1	Dr Padmaa M Paarakh
2.	07.01.2023	Saturday	2.30 to 3.30 PM	Module 1	Dr Padmaa M Paarakh
3.	09.01.2023	Monday	4.00 to 5.00 PM	Module 1	Dr Padmaa M Paarakh
4.	14.01.2023	Saturday	1.30 to 2.30 PM	Module 1	Dr Padmaa M Paarakh
5.	14.01.2023	Saturday	2.30 to 3.30 PM	Module 1	Dr Padmaa M Paarakh
6.	16.01.2023	Monday	4.00 to 5.00 PM	Module 1	Dr Padmaa M Paarakh
7.	21.01.2023	Saturday	1.30 to 2.30 PM	Module 1	Dr Padmaa M Paarakh
8.	21.01.2023	Saturday	2.30 to 3.30 PM	Module 1	Dr Padmaa M Paarakh
9.	23.01.2023	Monday	4.00 to 5.00 PM	Module 1	Dr Padmaa M Paarakh
10.	28.01.2023	Saturday	1.30 to 2.30 PM	Module 1	Dr Padmaa M Paarakh
11.	28.01.2023	Saturday	2.30 to 3.30 PM	Module 1	Dr Padmaa M Paarakh
12.	30.01.2023	Monday	4.00 to 5.00 PM	Module 1	Dr Padmaa M Paarakh
13.	04.02.2023	Saturday	1.30 to 2.30 PM	Module 1	Dr Padmaa M Paarakh
14.	04.02.2023	Saturday	2.30 to 3.30 PM	Module 1	Dr Padmaa M Paarakh
15.	06.02.2023	Monday	4.00 to 5.00 PM	Module 1	Dr Padmaa M Paarakh
16.	11.02.2023	Saturday	1.30 to 2.30 PM	Module 2	Dr Padmaa M Paarakh
17.	11.02.2023	Saturday	2.30 to 3.30 PM	Module 2	Dr Padmaa M Paarakh
18.	13.02.2023	Monday	4.00 to 5.00 PM	Module 2	Dr Padmaa M Paarakh
19.	20.02.2023	Monday	4.00 to 5.00 PM	Module 2	Dr Padmaa M Paarakh
20.	20.02.2023	Monday	5.00 to 6.00 PM	Module 2	Dr Padmaa M Paarakh





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21	25.02.2023	Saturday	1.30 to 2.30 PM	Module 2	Dr Padmaa M Paarakh
22	25.02.2023	Saturday	2.30 to 3.30 PM	Module 2	Dr Padmaa M Paarakh
23	04.03.2023	Saturday	1.30 to 2.30 PM	Module 2	Dr Padmaa M Paarakh
24	04.03.2023	Saturday	2.30 to 3.30 PM	Module 2	Dr Padmaa M Paarakh
25	06.03.2023	Monday	4.00 to 5.00 PM	Module 3	Dr Padmaa M Paarakh
26	11.03.2023	Saturday	1.30 to 2.30 PM	Module 3	Dr Padmaa M Paarakh
27	11.03.2023	Saturday	2.30 to 3.30 PM	Module 3	Dr Padmaa M Paarakh
28	13.03.2023	Monday	4.00 to 5.00 PM	Module 3	Dr Padmaa M Paarakh
29	18.03.2023	Saturday	1.30 to 2.30 PM	Module 3	Dr Padmaa M Paarakh
30	25.03.2023	Saturday	1.30 to 2.30 PM	Module 3	Dr Padmaa M Paarakh
31	27.03.2023	Saturday	1.30 to 2.30 PM	Valedictory function	Dr Padmaa M Paarakh

  
Co-Ordinator

Dr. Padmaa M Paarakh

  
HOD

Dr. Padmaa M Paarakh

  
Principal

Dr. Padmaa M Paarakh







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## Course in HPTLC, HPLC and GC analysis of crude drugs

(Course Code: HGACD2022-23)

### Outcome Report

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore- 560068, completed course in HPTLC, HPLC and GC analysis of crude drugs (Course Code: HGACD2022-23). About 20 students were registered and the course was conducted for 30 hours. This course trained the participants towards a better understanding of the basic concepts and advances in analytical techniques like HPTLC, HPLC and GC and characterization of crude drug.

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

- This course provides an overview of Advanced analytical instrumental techniques like HPTLC, HPLC and GC.
- Role of HPTLC, HPLC and GC in identification, characterization and quantification of drug
- Acquired Skills in selecting the suitable techniques for analysis of crude drugs
- To apply the knowledge learnt in developing new procedures for analysis of crude drug.

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

  
Coordinator

Dr. Padmaa M Paarakh

  
HOD & Principal

Dr. Padmaa M Paarakh





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**Course in HPTLC, HPLC and GC analysis of crude drugs**

**(Course Code: HGACD2022-23)**

**Completion Report**

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore, organized a course in HPTLC, HPLC and GC analysis of crude drugs (Course Code: HGACD2022-23) for the academic year 2022-23. This course offers the basic knowledge about HPTLC, HPLC and GC application in analysis of crude drug.

The course was started with a formal inaugural function by welcoming the chief guest Dr Ravi Kumar, Director, The Oxford Group of Institutions. The programme was conducted at Room No 506 and all the participants were introduced by Dr Padmaa M Paarakh, Course Coordinator. About 20 were present. The inaugural function has been summed up with the introductory lecture of course co-ordinator.

A total thirty-hour course had been conducted each of one hour duration after the class on Saturday and Monday. Total 20 Students were enrolled for this course. The syllabus of the course had been divided into four modules. After the completion of each module an internal assessment was conducted, and overall test was conducted after the completion of the course.

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 results of the tests conducted for all the three modules and overall were analysed. Approximately 50 % students scored grade A in all the tests followed by 30 % who scored grade B and 20 % scored grade C. Students have shown keen interest in attending and learning the contents of the course and doubts were clarified after the classes.

The valedictory function has been conducted on 27.03.2023 and the course Participation certificate was distributed to all 20 the students. The guest of the valedictory function, Dr. Ravi Kumar, Director, The Oxford Group of Institutions appreciated the enthusiasm of the students and the efforts taken by the course coordinator in organizing the course. Principal had thanked the Management for providing support in organizing such courses. Based on the overwhelming response from the students we planned to organize such courses in future.

  
Coordinator

**Dr. Padmaa M Paarakh**

  
HOD & Principal

**Dr. Padmaa M Paarakh**





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**Course In Natural Immunity Boosting Drugs As Therapeutic Interventions**

**(Course Code: NIBD2022-23)**

**NOTICE**

**Date: 21.01.2023**

To

**Notice Board**

To be read in the class rooms

Course Coordinator, Mrs Sravani T

To be filed

The Oxford College of Pharmacy, Bangalore introduces a **30hours** course in Natural immunity boosting drugs as therapeutic interventions for the academic year 2022-23, for the benefit of M. Pharm, B.Pharm, Pharm.D and Pharm D (Post Baccalaureate) 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 25<sup>th</sup> January 2023 and will be conducted after the college hours on Saturday and Monday. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B. Pharm, Pharm.D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Mrs Sravani T, Course coordinator on or before 23<sup>rd</sup> January 2023.

*Sravani T*

**CO-ORDINATOR**

**Ms. T Sravani**

*P. Padma*

**HOD**

**Dr. Padmaa M Paarak**

*P. Padma*

**PRINCIPAL**

**Dr. Padmaa M Paarakh**



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e-mail: [pharmacyprincipal@theoxford.edu](mailto:pharmacyprincipal@theoxford.edu); [info@theoxford.edu](mailto:info@theoxford.edu)

### Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
Course Co-ordinator	Mrs. T Sravani Dept. of Pharmacognosy TOCP, Bengaluru.

### For Further Information Contact

Mrs. T Sravani  
Assistant Professor,  
Department of Pharmacognosy,  
TOCP, Bengaluru.  
Email:  
[Sravisagar11@gmail.com](mailto:Sravisagar11@gmail.com)

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### ELIGIBILITY CRITERIA

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### Course In

Natural immunity boosting  
drugs as therapeutic  
interventions 2022-23



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: 23<sup>rd</sup>  
January 2023

Date of commencement: 25<sup>th</sup> January  
2023

Final Examination : April 2023

## REGISTRATION

Registration NIL

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

Contact Mrs. T Sravani  
person for Course Co-ordinator  
registration 9739012427

## STRUCTURE

- Course will be conducted for Total **30 hours** after the college hours.
- Course will be conducted through offline mode.
- Every Saturday and Monday after the college hours(Offline).

## COURSE DESCRIPTION

The Department of Pharmacognosy, TOCP, Bengaluru introduces a thirty hours course in Natural immunity boosting drugs as therapeutic interventions (NI3D2022-23).

This course offers the basic knowledge about drugs which play a major role to boost the immunity.

## OBJECTIVES OF THE PROGRAM

- To gain knowledge about the Immunity and ways to improve it.
- Number of herbal drugs play an important role in management of few diseases.
- The present course is aimed towards a better understanding of the drugs which are beneficial for boosting up immunity and help as therapeutic interventions.

## FINAL ASSESSMENT

Final exam will be conducted at the end of the syllabus

## DURATION

**Thirty hours** beginning from 25<sup>th</sup> January 2023.

## OUTCOME

- This course provides an overview of Immunity and immune boosters.
- Role of herbal drugs used in day-to-day life to boost immunity.
- To apply the knowledge learnt about the herbal drugs in preventing and management of few diseases.

## REGISTRATION PROCESS

Students can directly contact to course Co-ordinator Mrs. Sravani T.



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## Course in Natural Immunity Boosting Drugs as Therapeutic Interventions

(Course Code: NIBD2022-23)

### List of students

S.No.	Name of the Students	Signature
1.	RAMASWAMY SATHEES KUMAR	Ramaswamy S
2.	RAMYA S	Ramyas
3.	RANJITH KUMAR P	R. Kumar
4.	RISHIKA H MENON	Rishika H Menon
5.	S VIDYA SREE	Vidya Sree
6.	SACHIN G	Sachin G
7.	SAHALA K	Sahala K
8.	SAI SRAVAN P	Sai Sravan P
9.	SAKSHI YOGESH KORGAONKAR	S. Yogesh
10.	SALMAN ADEEB M	Salman M
11.	SANGEETHA R	S.R
12.	SHETTY MEGHANA DINKAR	Shetty
13.	SHILPA N	Shilpa N
14.	SHILPA S	Shilpa S
15.	SIDDHANAGOUDA G HALLUR	Siddhanagouda
16.	SINDHU S	Sindhu S
17.	SONALI H B	Sonali H.B

*Sravani T*  
COURSE CO-ORDINATOR

Ms. T Sravani

*P. Padma*  
HOD

Dr. Padmaa M Paarakh

*P. Padma*  
PRINCIPAL

Dr. Padmaa M Paarakh



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**Course in Natural Immunity Boosting Drugs as Therapeutic Interventions**

**(Course Code: NIBD2022-23)**

**Syllabus**

Module	Chapter/Topic
MODULE 1	What is Immune system?
	What factors depress Immune system
	Does an immune boosting diet exist?
	Role of herbs to boost the immune system
	Ayurveda's immunity boosting measures for self-care during COVID-19
	Immunity enhancing formulations prescribed by AYUSH
	Corona virus and role of immune boosters
	Role of herbs as natural immune boosters
	Role of Ashwagandha as immune booster
	Role of Mulethi as immune booster
	Role of Amla as immune booster
MODULE 2	Role of Tulsi as immune booster
	Role of Neem as immune booster
	Role of Guduchi as immune booster
	Role of Ginger as immune booster
	Role of Honey as immune booster
	Role of Turmeric as immune booster
	Role of Brahmi as immune booster
	Role of Mandukaparni immune booster
	Role of Black cumin as immune booster
	Role of Echinacea as immune booster
MODULE 3	Role of Asparagus as immune booster
	Role of Sweet potato as immune booster
	Role of Sun flower seeds as immune booster
	Role of Drumstick leaves as immune booster
	Role of Black pepper as immune booster
	Role of Harde as immune booster
	Role of Bahera as immune booster
	Role of Peppermint as immune booster
Role of Tea as immune booster	



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	Role of Garlic as immune booster
	Role of Cinnamon as immune booster
	Role of Tulsi as immune booster
	Role of Pippali as immune booster
	Role of Astragalus as immune booster

*T. Sravani*  
COURSE CO-ORDINATOR

Ms. T Sravani

*P. Padmaa*  
HOD

Dr. Padmaa M Paarakh

*P. Padmaa*  
PRINCIPAL

Dr. Padmaa M Paarakh



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**Course in Natural Immunity Boosting Drugs as Therapeutic Interventions**

(Course Code: NIBD2022-23)

**SESSION PLAN**

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	25.01.2023	Saturday	1:30 – 2:30PM	Inaugural Module 1	Dr. Padmaa Paarakh Mrs.Sravani T
2	25.01.2023	Saturday	2:30 -3:30PM	Module 1	Mrs.Sravani T
3	27.01.2023	Monday	4:00- 5:00PM	Module 1	Mrs.Sravani T
4	28.01.2023	Saturday	1:30 – 2:30PM	Module 1	Mrs.Sravani T
5	28.01.2023	Saturday	2:30 -3:30PM	Module 1	Mrs.Sravani T
6	30.01.2023	Monday	4:00- 5:00PM	Module 1	Mrs.Sravani T
7	04.02.2023	Saturday	1:30 – 2:30PM	Module 1	Mrs.Sravani T
8	04.02.2023	Saturday	2:30 -3:30PM	Module 1	Mrs.Sravani T
9	06.02.2023	Monday	4:00- 5:00PM	Module 1	Mrs.Sravani T
10	11.02.2023	Saturday	1:30 – 2:30PM	Module 1	Mrs.Sravani T
11	11.02.2023	Saturday	2:30 -3:30PM	Module 1	Mrs.Sravani T
12	20.02.2023	Monday	4:00- 5:00PM	Module 2	Mrs.Sravani T
13	25.02.2023	Saturday	1:30 – 2:30PM	Module 2	Mrs.Sravani T
14	25.02.2023	Saturday	2:30 -3:30PM	Module 2	Mrs.Sravani T
15	27.02.2023	Monday	4:00- 5:00PM	Module 2	Mrs.Sravani T
16	04.03.2023	Saturday	1:30 – 2:30PM	Module 2	Mrs.Sravani T
17	04.03.2023	Saturday	2:30 -3:30PM	Module 2	Mrs.Sravani T
18	06.03.2023	Monday	4:00- 5:00PM	Module 2	Mrs.Sravani T
19	11.03.2023	Saturday	1:30 – 2:30PM	Module 2	Mrs.Sravani T
20	11.03.2023	Saturday	2:30 -3:30PM	Module 2	Mrs.Sravani T
21	18.03.2023	Saturday	1:30 – 2:30PM	Module 2	Mrs.Sravani T
22	18.03.2023	Saturday	2:30 -3:30PM	Module 2	Mrs.Sravani T
23	20.03.2023	Monday	4:00- 5:00PM	Module 2	Mrs.Sravani T
24	25.03.2023	Saturday	1:30 – 2:30PM	Module 3	Mrs.Sravani T
25	25.03.2023	Saturday	2:30 -3:30PM	Module 3	Mrs.Sravani T
26	27.03.2023	Monday	4:00- 5:00PM	Module 3	Mrs.Sravani T
27	01.04.2023	Saturday	1:30 – 2:30PM	Module 3	Mrs.Sravani T
28	01.04.2023	Saturday	2:30 -3:30PM	Module 3	Mrs.Sravani T
29	03.04.2023	Monday	4:00- 5:00PM	Module 3	Mrs.Sravani T
30	08.04.2023	Saturday	1:30 – 2:30PM	Module 3	Mrs.Sravani T
31	29.04.2023	Saturday	1:30 – 2:30PM	Valedictory function	Mrs.Sravani T

T. SRAVANI  
CO-ORDINATOR

Ms. T Sravani

P. Padma  
HOD

Dr. Padmaa M Paarakh

P. Padma  
PRINCIPAL

Dr. Padmaa M Paarakh



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Course in Natural Immunity Boosting Drugs as Therapeutic Interventions

(Course Code: NIBD2022-23)

## Outcome Report

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore-560068, completed Course in Natural immunity boosting drugs as therapeutic interventions 2022-23 (Course Code: NIBD2022-23). 17 students were registered and the course was conducted for 30hours. The present course helps to gain knowledge about the immunity and ways to improve it. And also understand the drugs which are beneficial for boosting up immunity and help as therapeutic interventions.

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

- Understand the overview of immunity and immune boosters.
- Know the role of herbal drugs used in day-to-day life to boost immunity.
- Apply the knowledge learnt about the herbal drugs in preventing and management of few diseases.

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

Mravani .T  
CO-ORDINATOR

Mrs Sravani T

P. Padma  
HOD

Dr. Padmaa M Paarakh

P. Padma  
PRINCIPAL

Dr. Padmaa M Paarakh



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## Course in Natural Immunity Boosting Drugs as Therapeutic Interventions

(Course Code: NIBD2022-23)

### COMPLETION REPORT

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore, organized a course in Natural immunity boosting drugs as therapeutic interventions (Course Code: NIBD2022-23) for the academic year 2022-23. This course offers knowledge about immunity boosting drugs. This course provides an overview of immunity boosting drugs, importance and its uses.

The course was started with a formal 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 Mrs Sravani T, Course Coordinator. Total 17 students were present. The inaugural function had been summed up with the introductory lecture of course coordinator Mrs Sravani T.

A total 30hours course had been conducted after the college hours of every Saturday and Monday. Total 17 students were enrolled for this course.

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 results of the tests conducted for all the three modules and overall were analysed. Approximately 41.17% students scored grade A (marks percentage 95-100%) in all the tests followed by 35.27% who scored grade B (marks percentage 90-94%) and 23.52% scored grade C (marks percentage 85-89%). The performance of the students in the tests were found excellent. About ninety two 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 29.04.2023 and the participation certificate distributed to all 17 students by the 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 Sravani T for successful completion of course.

Sravani T  
CO-ORDINATOR

Mrs Sravani T

P. Padma  
HOD

Dr. Padmaa M Paarakh

P. Padma  
PRINCIPAL

Dr. Padmaa M Paarakh



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## Course in Monograph Analysis of Crude Drugs (Course Code: MACD2022-23)

### NOTICE

Date: 25.07.2023

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 in Monograph Analysis of Crude Drugs for the academic year 2022-23, for the benefit of M.Pharm, B. Pharm, Pharm.D and Pharm D (Post Baccalaureate) 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 2023 and will be conducted after the college hours on Saturday and Monday. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B. Pharm, Pharm.D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Mrs. Chaithra K, Course coordinator on or before 29<sup>th</sup> July 2023.

CO-ORDINATOR

Mrs Chaithra K

HOD

Dr. Padmaa M Paarakh

PRINCIPAL

Dr. Padmaa M Paarakh



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## Organizing Committee

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

## For Further Information Contact

Chaithra K  
Assistant Professor,  
Department of Pharmacognosy,  
TOCP, Bengaluru.  
Email:  
[chaithragowdak95@gmail.com](mailto: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., B. Pharm. Students from third, fourth, fifth, sixth, seventh, eighth semesters B. Pharm, M. Pharm.

Course  
In

## “Monograph analysis of Crude drugs”



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: 29<sup>th</sup> July 2023

Date of commencement: 5<sup>th</sup> August  
2023

Final Examination : October 2023



## 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.
- Course will be conducted through offline mode.
- Every Saturday and Monday after the college hours(Offline).

## COURSE DESCRIPTION

The Department of Pharmacognosy, TOCP, Bengaluru introduces 30 hours course in Monograph analysis of crude drugs (Course Code: MACD2022-23). This course offers knowledge about Monograph analysis of crude drugs.

## OBJECTIVES OF THE PROGRAM

- To gain knowledge about the importance and uses of monographs.
- Different steps involved in development of monographs.
- The present course is aimed towards a better understanding of Indian Pharmacopoeia and role of IPC in developing quality monographs.

## FINAL ASSESSMENT

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

## DURATION

**30 hours** beginning from 5<sup>th</sup> August 2023

## OUTCOME

- This course provides an overview of monograph, importance and use.
- Role of IPC in developing quality monographs.
- Steps involved in the preparation of monograph according to standard pharmacopoeias.
- To apply the knowledge learnt in developing new monographs crude drugs.

## REGISTRATION PROCESS

Students can directly contact course co-ordinator.



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## Course in Monograph Analysis of Crude Drugs (Course Code: MACD2022-23)

### LIST OF STUDENTS

S.No.	Name of the Students	Signature
1.	Pavan Kumar C	Pavan C
2.	Pooja HJ	Pooja H.J
3.	Priya Rajkumar	P.R
4.	Rachitha S V	Rachitha S.V
5.	Ramya D	Ramya D
6.	Rithik H R	Rithik H.R
7.	Sagar M	Sagar M
8.	Sanjay B	Sanjay B
9.	Shaik Baji	SB
10.	Sharath J	Sharath J
11.	Sheikh Muneeb UL Rahman	SM
12.	Sivaraj Kumar B	Sivaraj K
13.	Sneha S	S
14.	Soundarya T S	T.S
15.	Sushmitha N	Sushmitha N

  
COURSE CO-ORDINATOR

Mrs Chaithra K

  
HOD

Dr. Padmaa M Paarakh

  
PRINCIPAL

Dr. Padmaa M Paarakh



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**Course In Monograph Analysis of Crude Drugs**  
**(Course Code: MACD2022-23)**

**Syllabus**

Module	Chapter/Topic
MODULE 1	Introduction
	Preparation, purpose, content, use of monographs
	Indian Pharmacopoeia (IP)
	History of IP
	Role of IPC in frequent publication of IP
	Growth of IP standards
	Monograph development of herbs
	Monograph development of processed herbs and herbal products
	Individual monograph on herbal medicines according to WHO
	Individual monograph on herbal medicines according to WHO
	A brief history of pharmacopoeias: A global perspective
	A brief history of pharmacopoeias: A global perspective
MODULE 2	Monograph analysis of <i>Acacia catechu</i>
	Monograph analysis of <i>Acacia catechu</i>
	Monograph analysis of <i>Ephedra sinica</i>
	Monograph analysis of <i>Ephedra sinica</i>
	Monograph analysis of <i>Agele marmelos</i>
	Monograph analysis of <i>Agele marmelos</i>
	Monograph analysis of <i>Gymnema sylvestre</i> ,
	Monograph analysis of <i>Gymnema sylvestre</i> ,
Monograph analysis of <i>Andrographis paniculata</i>	



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	Monograph analysis of <i>Bacopa monnieri</i>
MODULE 3	Monograph analysis of <i>Achyranthus aspera</i> ,
	Monograph analysis of <i>Curcuma longa</i>
	Monograph analysis of <i>Embllica officinalis</i>
	Monograph analysis of <i>Ginkgo biloba</i>
	Monograph analysis of <i>Centella asiatica</i>
	Monograph analysis of <i>Aloe barbadensis</i> ,

*Chaitra K*  
COURSE CO-ORDINATOR  
Mrs Chaithra K

*P. Padma*  
HOD  
Dr. Padmaa M Paarakh

*P. Padma*  
PRINCIPAL  
Dr. Padmaa M Paarakh



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## Course In Monograph Analysis of Crude Drugs

(Course Code: MACD2022-23)

### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	05.08.2023	Saturday	1:30 - 2:30PM	Inaugural	Mrs. Chaithra K
2	05.08.2023	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K
3	07.08.2023	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K
4	12.08.2023	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K
5	12.08.2023	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K
6	14.08.2023	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K
7	19.08.2023	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K
8	19.08.2023	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K
9	21.08.2023	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K
10	26.08.2023	Saturday	1:30 - 2:30PM	Module 1	Mrs. Chaithra K
11	26.08.2023	Saturday	2:30 -3:30PM	Module 1	Mrs. Chaithra K
12	28.08.2023	Monday	4:00- 5:00PM	Module 1	Mrs. Chaithra K
13	02.09.2023	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
14	02.09.2023	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
15	04.09.2023	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K
16	09.09.2023	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
17	09.09.2023	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
18	11.09.2023	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K
19	16.09.2023	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
20	16.09.2023	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
21	18.09.2023	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K
22	23.09.2023	Saturday	1:30 - 2:30PM	Module 2	Mrs. Chaithra K
23	23.09.2023	Saturday	2:30 -3:30PM	Module 2	Mrs. Chaithra K
24	25.09.2023	Monday	4:00- 5:00PM	Module 2	Mrs. Chaithra K
25	30.09.2023	Saturday	1:30 - 2:30PM	Module 3	Mrs. Chaithra K
26	02.10.2023	Monday	1:00- 2:00PM	Module 3	Mrs. Chaithra K
27	07.10.2023	Saturday	1:30 - 2:30PM	Module 3	Mrs. Chaithra K
28	07.10.2023	Saturday	2:30 -3:30PM	Module 3	Mrs. Chaithra K
29	09.10.2023	Monday	4:00- 5:00PM	Module 3	Mrs. Chaithra K
30	14.10.2023	Saturday	1:30 - 2:30PM	Module 3	Mrs. Chaithra K
31	21.10.2023	Monday	4:00- 5:00PM	Valedictory function	Mrs. Chaithra K

  
COURSE CO-ORDINATOR

Mrs Chaithra K

  
HOD

Dr. Padmaa M Paarakh

  
PRINCIPAL

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## Course in Monograph Analysis of Crude Drugs (Course Code: MACD2022-23)

### OUTCOME REPORT

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore-560068, completed Course on Monograph analysis of crude drugs 2022-23 (Course Code: MACD2022-23). About 15 students were registered and the course was conducted for 30 hours. This course offers knowledge about important and uses of Monograph analysis of crude drugs. It also helps in better understanding of Indian Pharmacopoeia and role of IPC in developing quality monographs.

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

- Know overview of monograph, importance and its uses.
- Know the role of IPC in developing quality monographs.
- Understand the steps involved in the preparation of monograph according to standard pharmacopoeias.
- Apply the knowledge learnt in developing new monographs crude drugs.

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

  
CO-ORDINATOR

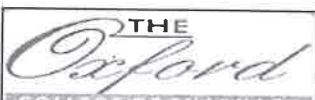
Mrs Chaithra K

  
HOD

Dr. Padmaa M Paarakh

  
PRINCIPAL

Dr. Padmaa M Paarakh







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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)

Accredited by NAAC and International Accreditation Organization (IAO)

## Course in Monograph Analysis of Crude Drugs

(Course Code: MACD2022-23)

### Completion Report

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore, conducted a course in Monographic analysis of crude drugs (Course Code: MACD2022-23) for the academic year 2022-23. This course offers knowledge about Monograph analysis of crude drugs. It also helps in better understanding of Indian Pharmacopoeia and role of IPC in developing quality monographs.

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 15 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 15 students have enrolled for this course.

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 results of the tests conducted for all the three modules and overall were analysed. Approximately 58.33 % students scored grade A (Marks percentage 95-100% ) in all the tests followed by 35% 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 one 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 21.10.2023 and the participation certificate were distributed to all 15 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.

COURSE CO-ORDINATOR

Mrs Chaithra K

HOD

Dr. Padmaa M Paarakh

PRINCIPAL

Dr. Padmaa M Paarakh



No.6/9, 1<sup>st</sup> Main, Begur Road, Hongasandra, Bangalore -560 068

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## COURSE ON BIOASSAY GUIDED ISOLATION AND EVALUATION OF HERBAL DRUGS

(Course Code: BAIEH 2022-23)

### NOTICE

Date: 17.07.2023

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 Bioassay guided isolation and evaluation of herbal drugs for the academic year 2022-23, for the benefit of M. Pharma, B Pharm, Pharm. D, and Pharm. D (Post baccalaureate) 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 24<sup>th</sup> July 2023 and will be conducted every Saturday and Monday after class hours. The eligibility criteria include students pursuing Pharmacy degree, that is M, Pharma, B Pharm, Pharm. D, and Pharm. D (Post baccalaureate). Interested students can enroll with Mrs. Pavithra Devi. R, Course coordinator on or before 21<sup>th</sup> July 2023.

  
CO-ORDINATOR

Mrs. Pavithra Devi. R

  
HOD

Dr Padmaa M. Paarakh

  
PRINCIPAL

Dr Padmaa M. Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru -560 068

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

## Organizing Committee

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

## 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.

## For Further Information Contact

Mrs. Pavithra Devi. R  
Assistant Professor,  
Department of Pharmacognosy,  
TOCP, Bengaluru.  
Email:  
[devipharma02@gmail.com](mailto:devipharma02@gmail.com)

## Course On “Bioassay Guided Isolation and Evaluation of Herbal Drugs ”



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: 21<sup>th</sup> July 2023**  
**Date of commencement: 24<sup>th</sup> July 2023**  
**Final Examination : October 2023**

## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., B. Pharm. Students from third, fourth, fifth, sixth, seventh, eighth semesters B. Pharm, Pharm. D, Pharm. D (PB), M. Pharm.

## 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.
- College will be conducted through offline mode.
- Every Saturday and Monday after the college hours(offline).

## COURSE DESCRIPTION

The Department of Pharmacognosy, TOCP, Bengaluru introduces a thirty hours course on **Bioassay guided isolation and evaluation of herbal drugs (Course code: BAIEH2022-23)**. This course offers the basic knowledge about bioassay guided isolation of crude drugs.

## OBJECTIVES OF THE PROGRAM

- To gain knowledge about the bioassay guided isolation which is used for profiling and screening of plant extracts.
- Number of methods are available, but this enables for characterization of species causing an observed biological activity.
- The present course is aimed towards a better understanding of the basic concepts and advances in isolation of pure drug molecules with associated biological activity.

## OUTCOME

- This course provides an overview of bioassay guided isolation of crude drugs.
- Bioassay guided fractionation protocol.
- To understand the isolation, evaluation process and to apply in natural product therapeutic lead discovery programs.

## REGISTRATION PROCESS

Students can directly contact respective course co-ordinator.

## FINAL ASSESSMENT

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

## DURATION

**30 hours** beginning from 24<sup>th</sup> July 2023





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## COURSE ON BIOASSAY GUIDED ISOLATION AND EVALUATION OF HERBAL DRUGS


(Course Code: BAIEH 2022-23)

### List of students

S. No.	Name of the Students	Signature
1.	EHTESHAM QURESHI	Ehtesham
2.	MANJUNATH T	Manju
3.	CHAITHRA SHREE.N	Chai
4.	CHEZHAN. G.K	Chethan
5.	DEEPAK DATTA. B.R	Deepak
6.	MATHUMITHA RAJMOHAN	Raj
7.	PREM RAJ.T	Prem
8.	RAGAVI. V	Ra.
9.	RAHUL.V	V.Rahul
10.	SAHANA. K	Saha
11.	SHIVAKUMAR. G	Shiva
12.	SINCHANA. D.P	Sincha
13.	SUPRAJA. R	Supraja
14.	SURAKSHA R RAI	Suraj
15.	THARANI SHREE. K	Tharani
16.	VISHAL SASI KANNAN	Vishal
17.	PRATHIBA V	Prathi
18.	BHUVANESHWARI R	Bhuvan
19.	BINDU R	Bindu
20.	CHRISTINA JAMES	Christina
21.	RAJDEEP KOUR	Raj

  
CO-ORDINATOR  
Mrs. Pavithra Devi. R

  
HOD  
Dr Padmaa M. Paarakh

  
PRINCIPAL  
Dr Padmaa M. Paarakh



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## COURSE ON BIOASSAY GUIDED ISOLATION AND EVALUATION OF HERBAL DRUGS

(COURSE CODE: BAGF22-23)

### Syllabus

Module	Chapter/Topic
<b>Module 1</b>	Bioassay and its importance in the evaluation of herbal drugs
	Types and Methods of Bioassay
	Applications of Bioassay
	<i>In Vivo</i> -bioassay model-Brine Shrimp Model
	<i>In Vivo</i> -bioassay model-Zebrafish Model
	<i>In Vivo</i> -bioassay model-Drosophila Model
	<i>In Vivo</i> -bioassay model-Animal Model
	Bioassay in Isolated Organs
	Cell-Based Bioassay
	Cell Viability Assays
	Cell Proliferation Assays
	Cytotoxicity Assays
	Second Messenger Assay
	Reporter Gene Assay
<b>Module 2</b>	Enzyme-Based Bioassay
	Receptor-Based Bioassay
	Methods and Applications of Anticancer Bio assays
	Methods and Applications of Anti viral Bio assays
	Methods and Applications of Anti tuberculosis Bio assays
	Methods and Applications of Thrombus- Related Bio assays
	Methods and Applications of Anticoagulation Bio assays
	Methods and Applications of Blood pressure related Bio assays
Methods and Applications of Alzheimers Disease Bio assays	
Methods and Applications of Parkinson's Disease and Graves Disease Bio assays	
<b>Module 3</b>	“Omics”-Guided Approach
	1 Genomics, Proteomics and Metabolomics
	Bioassay guided fractionation protocol and isolated compounds
	Bioassay-guided fractionation and identification of $\alpha$ -amylase inhibitors from <i>Syzygium cumini</i> leaves.
	Antiplasmodial Properties and Bioassay-Guided Fractionation of Ethyl acetate extracts of <i>Carica papaya</i> leaves.
<i>Piper betel</i> leaf extract: anticancer benefits and bio-guided fractionation to identify active	



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principles for prostate cancer management.
Immuno-contraceptive activity guided fractionation and characterization of active constituents of neem ( <i>Azadirachta indica</i> ) seed extracts.
Optimisation of the microplate resazurin assay for screening and bioassay-guided fractionation of phytochemical extracts against <i>Mycobacterium tuberculosis</i> .
Identification of a Phosphodiesterase-Inhibiting Fraction from Roasted Coffee ( <i>Coffea arabica</i> ) through Activity-Guided Fractionation.

  
Coordinator

Mrs. Pavithra Devi. R

  
HOD

Dr Padmaa M. Paarakh

  
PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON BIOASSAY GUIDED ISOLATION AND EVALUATION OF HERBAL DRUGS

(Course Code: BAIEH 2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	24-07-2023	MONDAY	4:00-5:00	INAUGURATION and Module-I	Dr. Padmaa. M. Paarakh Mrs. Pavithra Devi. R
2	24-07-2023	MONDAY	4:00-5:00	Module I	Mrs. Pavithra Devi. R
3.	31-07-2023	MONDAY	4:30-5:30	Module I	Mrs. Pavithra Devi. R
4.	05-08-2023	SATURDAY	2:00-3:00	Module I	Mrs. Pavithra Devi. R
5.	05-08-2023	SATURDAY	3:00-4:00	Module I	Mrs. Pavithra Devi. R
6.	07-08-2023	MONDAY	4:30-5:30	Module I	Mrs. Pavithra Devi. R
7.	12-08-2023	SATURDAY	2:00-3:00	Module I	Mrs. Pavithra Devi. R
8.	12-08-2023	SATURDAY	3:00-4:00	Module I	Mrs. Pavithra Devi. R
9.	14-08-2023	MONDAY	4:30-5:30	Module I	Mrs. Pavithra Devi. R
10.	19-08-2023	SATURDAY	2:00-3:00	Module I	Mrs. Pavithra Devi. R
11.	19-08-2023	SATURDAY	3:00-4:00	Module II	Mrs. Pavithra Devi. R
12.	21-08-2023	MONDAY	4:30-5:30	Module II	Mrs. Pavithra Devi. R
13.	26-08-2023	SATURDAY	2:00-3:00	Module II	Mrs. Pavithra Devi. R
14.	26-08-2023	SATURDAY	3:00-4:00	Module II	Mrs. Pavithra Devi. R
15.	28-08-2023	MONDAY	4:30-5:30	Module II	Mrs. Pavithra Devi. R
16.	04-09-2023	MONDAY	4:30-5:30	Module II	Mrs. Pavithra Devi. R
17.	09-09-2023	SATURDAY	2:00-3:00	Module II	Mrs. Pavithra Devi. R
18.	09-09-2023	SATURDAY	3:00-4:00	Module II	Mrs. Pavithra Devi. R
19.	11-09-2023	MONDAY	4:30-5:30	Module II	Mrs. Pavithra Devi. R
20.	16-09-2023	SATURDAY	2:00-3:00	Module II	Mrs. Pavithra Devi. R
21.	16-09-2023	SATURDAY	3:00-4:00	Module II	Mrs. Pavithra Devi. R
22.	23-09-2023	SATURDAY	2:00-3:00	Module III	Mrs. Pavithra Devi. R



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23.	23-09-2023	SATURDAY	3:00-4:00	Module III	Mrs. Pavithra Devi. R
24.	07-10-2023	SATURDAY	2:00-3:00	Module III	Mrs. Pavithra Devi. R
25.	07-10-2023	SATURDAY	3:00-4:00	Module III	Mrs. Pavithra Devi. R
26.	09-10-2023	MONDAY	4:00-5:00	Module III	Mrs. Pavithra Devi. R
27.	09-10-2023	MONDAY	5:00-6:00	Module III	Mrs. Pavithra Devi. R
28.	16-10-2023	MONDAY	4:00-5:00	Module III	Mrs. Pavithra Devi. R
29.	16-10-2023	MONDAY	5:00-6:00	Module III	Mrs. Pavithra Devi. R
30.	21-10-2023	SATURDAY	2:00-3:00	Module III	Mrs. Pavithra Devi. R
31.	21-10-2023	SATURDAY	3:00-4:00	VALEDICTORY	Dr. Padmaa. M. Paarakh Mrs. Pavithra Devi. R

  
CO-ORDINATORS

Mrs. Pavithra Devi. R

  
HOD

Dr. Padmaa M. Paarakh

  
PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON BIOASSAY GUIDED ISOLATION AND EVALUATION OF HERBAL DRUGS

(Course Code: BAIEH 2022-23)

### Completion Report

The Department of Pharmacognosy, The Oxford college of Pharmacy, Bangalore, conducted a Course in Bioassay guided isolation and evaluation of herbal drugs (Course Code: BAIEH 2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basics of principles, techniques and applications related Bioassay guided isolation and evaluation of herbal drugs.

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 Coordinators Mrs Pavithra Devi. R. Total 21 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 Saturday and Monday


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 after the completion of the course.


The results of module I, II, III and overall were analysed. Approximately 36.50 % students scored grade A (marks percentage-100%) in all the tests followed by 50.79% who scored grade B (marks percentage-90%) and 11.11 % scored grade C (marks percentage-80%) and 0 % 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 21/10/2023 and the course participation certificates were distributed to all 21 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



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## COURSE ON BIOASSAY GUIDED ISOLATION AND EVALUATION OF HERBAL DRUGS

(Course Code: BAIEH 2022-23)

### OUTCOME REPORT

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore- 560068, completed a course on Bioassay Guided Isolation and Evaluation of Herbal Drugs 2022-23 (course code: BAIEH 2022-23). 21 students were registered and the course was conducted for 30 hours. The course outcome is to understand bioassay guided isolation which is used for profiling and screening of plant extracts. The course focused on enhancing the knowledge about the basic concepts and advances in isolation of pure drug molecules with associated biological activity.

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

- Overview of bioassay guided isolation of crude drugs.
- Understand bioassay guided fractionation protocol.
- Understand the isolation evaluation process and to apply in natural product therapeutic lead discovery programs.

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

  
CO-ORDINATORS

Mrs. Pavithra Devi. R

  
HOD

Dr. Padmaa M. Paarakh

  
PRINCIPAL

Dr. Padmaa M. Paarakh





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## COURSE ON APPLICATION OF PLANT TISSUE CULTURE

(Course Code: PTC 2022-23)

### NOTICE

**Date: 02-01-2023**

To

#### **Notice Board**

To be read in the class rooms

Course Co-ordinator, Mrs. Sravani T

To be filed

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on Applications of Plant Tissue Culture for the academic year 2022-2023, for the benefit of M Pharm, B Pharm, Pharm. D and Pharm. D (Post baccalaureate) 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 2023 and will be conducted every Thursday and Friday after the regular class hours. The eligibility criteria include students pursuing Pharmacy degree, that is M Pharm, B Pharm, Pharm. D, and Pharm. D (Post baccalaureate) students. Interested students can enroll with Mrs. Sravani. T, course co-ordinator on or before 4<sup>th</sup> January 2023.

*Sravani T*  
CO-ORDINATOR  
Mrs. Sravani. T

*D. Padma*  
HOD  
Dr Padmaa M. Paarakh

*D. Padma*  
PRINCIPAL  
Dr Padmaa M. Paarakh



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

## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr Padmaa M Paarakh Department of Pharmacognosy TOCP, Bangalore.
Program Coordinator	Mrs. Sravani. T Department of Pharmacognosy TOCP, Bangalore.

## THE OXFORD COLLEGE OF PHARMACY

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### ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., B. Pharm. Students from third, fourth, fifth, sixth, seventh, eighth semesters B. Pharm, Pharm. D, Pharm. D (PB), M. Pharm.

## Course on “Application of Plant Tissue Culture”



Organized by

## THE OXFORD COLLEGE OF PHARMACY

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

### Important Dates

Duration: **30 hours**  
Last date for registration: 04 Jan 2023  
Date of commencement: 05 Jan 2023  
Planned Examination : 31 Mar 2023

### For Further Information Contact

**Mrs. Sravani. T**  
Assistant Professor

Department of Pharmacognosy  
TOCP, Bangalore

Email: [svravisagar11@gmail.com](mailto:svravisagar11@gmail.com)

## REGISTRATION

Registration NIL

Fees It is a free course offered by

The Oxford College of  
Pharmacy Bangalore-68

Contact

person for Mrs. Sravani. T  
registration 9739012427

## STRUCTURE

- Course will be conducted for total **30 hours** after the college hours.
- Course will be conducted through offline mode.
- Every Thursday and Friday after the college hours (offline).

## COURSE DESCRIPTION

The Department of Pharmacognosy, TOCP, Bangalore- 560068 introduces a 30 hours course in Applications of Plant Tissue Culture (Course Code: PTC 2022-23). This course offers the aims to impart understanding of the basic principles of the plant science & Molecular Biology which can be applied in day today life and research work.

## OBJECTIVES OF PROGRAM

- This course is designed to provide knowledge in current technological developments in research with trends in the aims & needs of today's biotechnology industries.
- Explains the Design & application of bioreactors, fermenters, Different Tissue culture technique methods of obtaining of genetically modified plants with its application. Production of Vitamins, Ergot alkaloids.

## FINAL ASSESSMENT

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

## DURATION

**30 hours** starting from 05  
January 2023

## OUTCOME

- Recall the basic concepts of biotechnology & explain fundamental cellular events during the process of plant cell culture development.
- Determine the factors influencing plant cell differentiation & thereby execute proper techniques/procedures for the maintenance of sterile condition & proper plant growth.
- Design an experiment with step-by-step instructions to address a research problem

## REGISTRATION PROCESS

Directly contact Mrs. Sravani. T  
the course coordinator.



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## COURSE ON APPLICATION OF PLANT TISSUE CULTURE

(Course Code: PTC 2022-23)

### List of Students

S. No.	Name of the Students	Signature
1	EHTESHAM QURESHI	Ehtesha
2	MANJUNATH T	Manj
3	CHAITHRA SHREE.N	Chai
4	CHETHAN. G. K	Chethan
5	DEEPAK DATTA. B. R	Deept
6	MATHUMITHA RAJMOHAN	M. Raj
7	PREM RAJ.T	P. Raj
8	RAGAVI. V	Ragavi
9	RAHUL.V	V. Rahul
10	SAHANA. K	Sahana

Sravanii T  
CO-ORDINATOR  
Mrs. Sravani. T

P. Padma  
HOD  
Dr Padmaa M. Paarakh

P. Padma  
PRINCIPAL  
Dr Padmaa M. Paarakh



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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)

Accredited by NAAC and International Accreditation Organization (IAO)

## COURSE ON APPLICATION OF PLANT TISSUE CULTURE 2022-23

(Course Code: PTC 2022-23)

### SYLLABUS

S. No	Module	Topic
I	Introduction	Introduction to the program
II	Module I	Introduction to Plant biotechnology
		Study of DNA, RNA, and protein replication
		Techniques of DNA recombinant technology
		Genetic code, regulation of gene expression
		Structure and complicity of genome, cell signaling
		Genetic Engineering of Plants Methodology
III	Module II	Gene Transfer methods
		Introduction and applications of Plant tissue culture
		Types of Plant tissue cultures
		Sterilization methods involved in tissue culture, gene transfer in plants and their applications.
		Enzyme Immobilization
		Fermenters and design of bioreactors
IV	Module III	Applications of Plant Transformation / Transgenic Plants
		Protoplast Fusion Technology
		Cloning of plant cell: Different methods of cloning & applications. Advantages and disadvantages of plant cell cloning
		Applications of Enzyme Immobilization
		Transgenic plants
		Application of Fermentation technology
Production of Ergot alkaloids		
Production of Vitamins and other metabolites of pharmaceutical uses		
		Production of Primary metabolites

Sravani T  
Coordinator  
Mrs. Sravani. T

  
HOD

Dr. Padmaa M. Paarakh

  
PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON APPLICATION OF PLANT TISSUE CULTURE

(Course Code: PTC 2022-23)

### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	05-01-2023	THURSDAY	4:30-5:30	INAUGURATION & Module I	Dr. Padmaa. M. Paarakh Mrs. Sravani. T
2	06-01-2023	FRIDAY	4:30-5:30	Module I	Mrs. Sravani. T
3	12-01-2023	THURSDAY	4:30-5:30	Module I	Mrs. Sravani. T
4	13-01-2023	FRIDAY	4:30-5:30	Module I	Mrs. Sravani. T
5	19-01-2023	THURSDAY	4:30-5:30	Module I	Mrs. Sravani. T
6	20-01-2023	FRIDAY	4:30-5:30	Module I	Mrs. Sravani. T
7	27-01-2023	FRIDAY	4:30-5:30	Module I	Mrs. Sravani. T
8	02-02-2023	THURSDAY	4:30-5:30	Module I	Mrs. Sravani. T
9	03-02-2023	FRIDAY	4:30-5:30	Module I	Mrs. Sravani. T
10	09-02-2023	THURSDAY	4:00-5:00	Module II	Mrs. Sravani. T
11	09-02-2023	THURSDAY	5:00-6:00	Module II	Mrs. Sravani. T
12	10-02-2023	FRIDAY	4:30-5:30	Module II	Mrs. Sravani. T
13	16-02-2023	THURSDAY	4:00-5:00	Module II	Mrs. Sravani. T
14	16-02-2023	THURSDAY	5:00-6:00	Module II	Mrs. Sravani. T
15	17-02-2023	FRIDAY	4:30-5:30	Module II	Mrs. Sravani. T
16	23-02-2023	THURSDAY	4:00-5:00	Module II	Mrs. Sravani. T
17	23-02-2023	THURSDAY	5:00-6:00	Module II	Mrs. Sravani. T
18	24-02-2023	FRIDAY	4:30-5:30	Module II	Mrs. Sravani. T
19	02-03-2023	THURSDAY	4:00-5:00	Module II	Mrs. Sravani. T
20	02-03-2023	THURSDAY	5:00-6:00	Module II	Mrs. Sravani. T
21	03-03-2023	FRIDAY	4:30-5:30	Module III	Mrs. Sravani. T
22	09-03-2023	THURSDAY	4:00-5:00	Module III	Mrs. Sravani. T



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23.	09-03-2023	THURSDAY	5:00-6:00	Module III	Mrs. Sravani. T
24.	10-03-2023	FRIDAY	4:30-5:30	Module III	Mrs. Sravani. T
25.	16-03-2023	THURSDAY	4:00-5:00	Module III	Mrs. Sravani. T
26.	16-03-2023	THURSDAY	5:00-6:00	Module III	Mrs. Sravani. T
27.	17-03-2023	FRIDAY	4:30-5:30	Module III	Mrs. Sravani. T
28.	23-03-2023	THURSDAY	4:30-5:30	Module III	Mrs. Sravani. T
29.	30-03-2023	THURSDAY	4:00-5:00	Module III	Mrs. Sravani. T
30.	30-03-2023	THURSDAY	5:00-6:00	Module III	Mrs. Sravani. T
31.	31-03-2023	FRIDAY	4:30-5:30	VALEDICTORY	Dr. Padmaa. M. Paarakh Mr. Sravani. T

*Sravani. T*  
Coordinator  
Mrs. Sravani. T

*P. Padma*  
HOD  
Dr Padmaa M. Paarakh

*P. Padma*  
PRINCIPAL  
Dr Padmaa M. Paarakh



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**COURSE ON APPLICATION OF PLANT TISSUE CULTURE**

**(Course Code: PTC 2022-23)**

**Outcome Report**

The Department of Pharmacognosy, The Oxford College of Pharmacy, Bangalore-560068, completed course on Application of Plant tissue culture (Course Code PTC 2022-23) 10 students were registered and the course was conducted for 30 hours. This course trained registrants to have a basic awareness about the various concepts and techniques involved in the Plant tissue culture and the basic, economic & commercial application in plant tissue culture. Current technological developments in research field. The course focused on enhancing the knowledge regarding the methods of obtaining of genetically modified plants with its application, production of vitamins, Ergot alkaloids.

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

- 1) Recall the basic concepts of biotechnology & explained fundamental cellular events during the process of plant cell culture development.
- 2) Determine the factors influencing plant cell differentiation & thereby execute proper techniques/procedures for the maintenance of sterile condition & proper plant growth.
- 3) Design an experiment with step-by-step instructions to address a research problem

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

Sravani T  
CO-ORDINATOR  
Mrs. Sravani. T

*P. Padma*  
HOD  
Dr Padmaa M. Paarakh

*P. Padma*  
PRINCIPAL  
Dr Padmaa M. Paarakh



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## COURSE ON APPLICATION OF PLANT TISSUE CULTURE

(Course Code: PTC 2022-23)

### Completion Report

The Department of Pharmacognosy, The Oxford college of Pharmacy, Bangalore, conducted a Course on Application of Plant Tissue Culture (Course Code: PTC 2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basics of principles, techniques and applications related to application of Plant tissue culture.

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 Coordinators Mrs Sravani. T. 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. Sravani. T

A total 30 hours course had been conducted after the college hours of every Thursday and Friday. Total 10 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 after the completion of the course.


The results of module I, II, III and overall were analysed. Approximately 50 % 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 0 % scored grade D (marks percentage-70 and below %).

The performance of the students in the tests were found excellent. About ninety one 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 31-03-2023 and the participation certificate 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 coordinator Mrs Sravani. T for successful completion of course.

Sravani.T  
CO-ORDINATOR  
Mrs. Sravani. T

  
HOD  
Dr Padmaa M. Paarakh

  
PRINCIPAL  
Dr Padmaa M. Paarakh





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## COURSE IN GREEN CHEMISTRY

(COURSE CODE: GRCH 2022-23)

### NOTICE

Date: 20-12-2022

To

#### Notice Board

To be read in the class rooms

Course Coordinator-Mr. Akshay C,

To be filed

The Oxford College of Pharmacy, Bangalore introduces **30 hours** course in Green Chemistry for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm, Pharm D and Pharm D (Post Baccalaureate) 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 6<sup>th</sup> Jan 2023. The class will be conducted every Friday and Saturday after the college hours. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B. Pharm, Pharm D and Pharm D (Post Baccalaureate). Interested students can enroll with Mr. Akshay C, course coordinator on or before 30<sup>th</sup> Dec 2022.

  
CO-ORDINATOR

Akshay C

  
HOD

Dr Jyoti Shrivastava

  
PRINCIPAL

Dr Padmaa M. Paarakh



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## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr Jyoti Shrivastava Department of Pharmaceutical Chemistry TOCP, Bangalore.
Program Coordinators	Mr. Akshay C Department of Pharmaceutical Chemistry TOCP, Bangalore.

## For Further Information Contact

**Mr. Akshay C**  
Assistant Professor  
Department of Pharmaceutical  
Chemistry  
TOCP, Bangalore  
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., B. Pharm, M Pharm, Pharm D and Pharm D (Post Baccalaureate)

Course  
in

“GREEN CHEMISTRY”



Est'd. 1974  
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:-30/12/2022

Date of commencement:06/01/2023

Date of examination: After completion  
of 30hours classes

## REGISTRATION

Registration Fees	NIL	It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Mr Akshay C 7025784594	

### STRUCTURE

- Course will be conducted for total **30 hours** after the college hours.
- Course will be conducted through Offline mode.
- Every Friday and Saturday. (offline).

### COURSE DESCRIPTION

The Department of Pharmaceutical Chemistry, TOCP, Bangalore introduces a thirty hours course in GREEN CHEMISTRY (Course Code: GRCH 2022-23). This course offers the basic knowledge about the Green chemistry which can be applied in the drug development.

### OBJECTIVES OF PROGRAM

- The course provides the knowledge on chemical processes and modern synthetic methods.
- It mainly focused on the design of chemical products and process that minimize or eliminate the use and generation of hazardous substances.
- This certificate course will help the students in design new methods of synthesis and use of alternate chemical reaction pathways for designing molecule.

### FINAL ASSESSMENT

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

### DURATION

- Thirty hours.**

### OUTCOME

- Design chemical processes that reduce or eliminate the use or generation of hazardous substances.
- Design, develop and implement synthetic chemical schemes and processes on different chemical methods.
- Use of eco friendly chemicals.

### REGISTRATION PROCESS

- Contact your course coordinators and register.



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**COURSE IN GREEN CHEMISTRY**

(Course Code: GRCH 2022-23)

**List of Students**

S.No	Student Name	Signature
1	DEEPAK KUMAR MAHTO	<i>DKM</i>
2	DHARSHINI.J	<i>Dharshini</i>
3	DIVYA C K	<i>Divya</i>
4	GAGANSAGAR M	<i>Gagansagar</i>
5	GAYATHRI N BIRADAR	<i>Gayathri NB</i>
6	GOWTHAM S	<i>Gowtham S</i>
7	HARISH TK	<i>Harish TK</i>
8	HARSHITHA P	<i>HARSHITHA P</i>
9	HARSHITHA.R	<i>HARSHITHA</i>
10	HEMANTH.M	<i>Hemanth</i>
11	IQRA	<i>Iqra</i>
12	J PRAVIN	<i>Pravin</i>
13	JEEVAN.R	<i>Jeevan R</i>
14	JEEVITHA S	<i>Jeevitha S</i>
15	K LAKSHMI	<i>Lakshmi</i>

CO-ORDINATOR

Akshay C

HOD

Dr. Jyoti Shrivastava

*P. Padma*  
PRINCIPAL

Dr. Padmaa M Paarakh





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## COURSE IN GREEN CHEMISTRY

(Course Code: GRCH 2022-23)

### SYLLABUS

MODULE	TOPIC
Module I	<b>Green chemistry</b>
	Introduction green chemistry
	History of green chemistry
	<b>Principles of green chemistry</b>
	Prevention
	Atom economy
	Less hazardous chemical synthesis
	Designing safer chemical
	Safer solvents and auxiliaries
	Design for energy efficiency
	Use of renewable feedstocks
Module II	Reduce derivatives
	<b>Principles of green chemistry</b>
	Catalysis
	Design for degradation
	Real time analysis for pollution prevention
	Inherently benign chemistry for accident prevention
	<b>Microwave assisted organic synthesis</b>
	Microwave irradiation
	Mechanism of microwave
	A) Dielectric Heating
	B) Dipolar Polarization Mechanism
C) Conduction Mechanism	
Module III	Conventional heating and microwave heating
	<b>Technique of microwave system</b>
	Domestic house hold oven
	Reflux system
	Pressurized system
	Continuous flow system
	Microwave synthesis of nanoparticle
	Microwave synthesis
	Microwave assisted peptide synthesis
	<b>Ultrasound Assisted Organic synthesis</b>
	Introduction of UAOS
Types of sonochemical reaction	
Ultrasound assisted synthesis of heterocycle	

  
COURSE CO-ORDINATOR

MR. AKSHAY C

  
HOD

DR JYOTI SHRIVASTAVA

  
PRINCIPAL

DR. PADMAA M PAARAKH



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## COURSE IN GREEN CHEMISTRY

(Course Code: GRCH 2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	6-1-23	FRIDAY	4:30-6:30 PM	INAUGURATION AND MODULE I	Akshay C
2	7-1-23	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
3	13-1-23	FRIDAY	4:30-5:30 PM	MODULE I	Akshay C
4	14-1-23	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
5	20-1-23	FRIDAY	4:30-5:30 PM	MODULE I	Akshay C
6	21-1-23	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
7	27-1-23	FRIDAY	4:30-5:30 PM	MODULE I	Akshay C
8	28-1-23	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
9	3-2-23	FRIDAY	4:30-5:30 PM	MODULE I	Akshay C
10	4-2-23	SATURDAY	2:00-3:00 PM	MODULE I	Akshay C
11	10-2-23	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C
12	11-2-23	SATURDAY	2:00-3:00 PM	MODULE II	Akshay C
13	17-2-23	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C
14	24-2-23	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C
15	25-2-23	SATURDAY	2:00-3:00 PM	MODULE II	Akshay C
16	25-2-23	SATURDAY	3:00-4:00 PM	MODULE II	Akshay C
17	3-3-23	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C
18	4-3-23	SATURDAY	2:00-3:00 PM	MODULE II	Akshay C
19	10-3-23	FRIDAY	4:30-5:30 PM	MODULE II	Akshay C
20	11-3-23	SATURDAY	2:00-3:00 PM	MODULE II	Akshay C



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21	11-3-23	SATURDAY	3:00-4:00 PM	MODULE III	Akshay C
22	17-3-23	FRIDAY	4:30-5:30 PM	MODULE III	Akshay C
23	24-3-23	FRIDAY	4:30-5:30 PM	MODULE III	Akshay C
24	25-3-23	SATURDAY	2:00-3:00 PM	MODULE III	Akshay C
25	31-3-23	FRIDAY	4:30-5:30 PM	MODULE III	Akshay C
26	1-4-23	SATURDAY	2:00-3:00 PM	MODULE III	Akshay C
27	1-4-23	SATURDAY	3.00-4:00 PM	MODULE III	Akshay C
28	8-4-23	SATURDAY	2:00-3:00 PM	MODULE III	Akshay C
29	8-4-23	SATURDAY	3:00-4:00 PM	MODULE III	Akshay C
30	15-4-23	SATURDAY	2.00-3.00 PM	MODULE III	Akshay C
31	15-4-23	SATURDAY	3.00-4.00 PM	Valedictory	Valedictory

CO-ORDINATOR

Akshay C

HOD

Dr Jyoti shrivastava

PRINCIPAL

Dr Padmaa M. Paarakh





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## COURSE IN GREEN CHEMISTRY

(Course Code: GRCH 2022-23)

### OUTCOME REPORT

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bangalore- 560068, had completed course in GREEN CHEMISTRY 2022-23 (Course Code: GRCH 2022-23). 15 students were registered and the course was conducted for 30 hours. This course trained registrants to have a key information throughout the Green chemistry process. The course provided knowledge on chemical processes and modern synthetic methods.

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

- Design chemical processes that reduce or eliminate the use or generation of hazardous substances.
- Design, develop and implement chemical products and processes on different chemical method.
- Understand the use of eco-friendly chemicals.

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

CO-ORDINATOR

Akshay C

HOD

Dr Jyothi Shrivastava

PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE IN GREEN CHEMISTRY

(Course Code: GRCH 2022-23)

### Completion Report

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bangalore, conducted a course in Green chemistry (Course Code:GRCH 2022-23 ) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basics of Green chemistry to benefit them design chemical processes that reduce or eliminate the use or generation of hazardous substances.

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 Pharmaceutical chemistry. 15 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 15 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 40.6 % students scored grade A (marks percentage-95-100%) in all the tests followed by 42.7% who scored grade B (marks percentage-90-94%) and 16.6 % 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-three 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 15-4-23 and the participation certificate were distributed to all 15 students by the Principal Dr. Padmaa M.Paarakh and Head of the Department Dr Jyoti Shrivastava. Dr. Jyoti, 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 Mr Akshay C for successful completion of the course.

CO-ORDINATOR

Mr. Akshay C

HOD

Dr Jyoti Shrivastava

PRINCIPAL

Dr Padmaa M P aarakh



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## COURSE ON MOLECULAR DOCKING

(Course Code: MDOC 2022-23)

### NOTICE

Date: 20-07-2023

To

#### Notice Board

To be read in the class rooms

Course Coordinator -Mrs. Pradeepa Prasad,

To be filed

The Oxford College of Pharmacy, Bangalore introduces **30 hours** course on **Molecular Docking** for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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> Aug 2023**. The classes will be conducted every Thursday, Friday and Saturday after the regular class hours. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Mrs. Pradeepa Prasad, course coordinator on or before **3<sup>rd</sup> Aug 2023**.

CO-ORDINATOR

Mrs. Pradeepa Prasad

HOD

Dr. Jyoti Shrivastava

PRINCIPAL

Dr Padmaa M. Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru --560 068

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



## Organizing Committee

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

HOD  
Dr Jyoti Shrivastava,  
Professor, Department of  
Pharmaceutical Chemistry  
TOCP, Bangalore.

Program  
Coordinators  
Mrs. Pradeepa Prasad,  
Assistant professor,  
Department of  
Pharmaceutical Chemistry  
TOCP, Bangalore.

## THE OXFORD COLLEGE OF PHARMACY

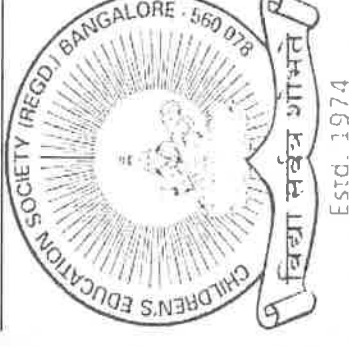
The Oxford College of Pharmacy (TOCP) was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of 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.

## For Further Information Contact

**Mrs. Pradeepa Prasad**  
Assistant Professor  
Department of Pharmaceutical  
Chemistry  
TOCP, Bangalore  
Email: pradeepapharm@gmail.com

## Course On

# “MOLECULAR DOCKING”



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: 03/08/2023**

**Date of commencement: 05/08/2023**

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

## REGISTRATION

Registration NIL

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

Contact person for registration Mrs. Pradeepa Prasad 8921969168

## STRUCTURE

- Course will be conducted for **30 hours**.
- Course will be conducted through offline mode.
- Course will be conducted on every Thursday, Friday and Saturday after the college hours. (offline)

## OBJECTIVES OF PROGRAM

- The course provides the knowledge about the most frequently used methods in structure-based drug design.
- This docking study helps the students to analyses the conformation and orientation of molecules into the binding site of a macromolecular target.
- It provides the students to study on various software used for molecular docking studies.

## FINAL ASSESSMENT

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

## DURATION

**Thirty hours.**

## COURSE DESCRIPTION

The Department of Pharmaceutical Chemistry, TOCP , Bangalore introduces a thirty hours certificate course on Molecular Docking (Course Code: MDOC 2022-23). This course offers the basic knowledge about the Docking tools which can be applied in the drug development and research activities.

## OUTCOME

- This course will provides various docking methods, which is used in drug discovery studies and to develop the desired three-dimensional structures of compounds.
- Students are able to handle various software used for molecular docking studies.
- Students will learn about methods used to estimate a compound's biological activity by looking at how it interacts with prospective targets.

## REGISTRATION PROCESS

- Contact your course coordinators and register.



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Accredited by NAAC and International Accreditation Organization (IAO)

**COURSE ON MOLECULAR DOCKING**  
**(Course Code: MDOC 2022-23)**

**REGISTRATION LIST**

S.No	Student Name	Signature
1	BHAVYA SHREE	Bhavya
2	CHAITHANYA . R	Chaitanya
3	HEMANTH KUMAR E	Hemant
4	NISHA S	Nisha
5	GAURI VERMA	Gauri
6	ARUN KUMAR V	Arun
7	GOKUL RAJ . M	Gokulraj
8	HALASWAMY.D.B	Halaswamy
9	INDUSHREE.G.L	Indushree
10	INITHA.V	Initha
11	JEEVAN.U.H	Jeevan
12	KHALEEL.E	Khaleel
13	LOWMKIMI	Lowmiki
14	LIKITHA GOWDA	Likitha
15	RAJESHWARI.B	Rajeshwari

COURSE COORDINATOR

*Pradeepa*

HOD

*81*

*P. Padma*  
PRINCIPAL

Mrs. Pradeepa Prasad

Dr. Jyoti Shrivastava

Dr Padmaa M. Paarakh





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**COURSE ON MOLECULAR DOCKING**  
**(Course Code: MDOC 2022-23)**

**SYLLABUS**

MODULE	TOPIC
Module I	<b>INTRODUCTION TO MOLECULAR DOCKING</b>
	Introduction
	Molecular Docking Models
	Experimental Methods, Computational Docking
	Docking and its types
	Molecular Complementarity
	Molecular based Docking, Rigid docking, Flexible Docking
	Molecular Flexibility
Module II	<b>TYPES AND MECHANICS OF DOCKING</b>
	Specialized types of docking
	Hydrated and Metal ion docking
	<b>MECHANICS OF DOCKING</b>
	Molecular Representation
	Scoring methods and functions
	Search Algorithms
	Two Docking Philosophies
	Target selection and preparation, Ligand selection and Preparation
Docking	
Module III	<b>EVALUATION</b>
	Evaluating docking results
	Docking Algorithms
	<b>DRUG PROPERTIES</b>
	Binding properties Of Target & Ligand
	Drug Likeness & Properties -Solubility and Molecular weight
	Drug Scores & SWISS ADME
	Lipinski's Rule and Veber rule
	Drug properties calculation
	Application of Molecular Docking
Practical Consideration	

**COURSE CO-ORDINATOR**

MRS. PRADEEPA PRASAD

**HOD**

DR. JYOTI SHRIVASTAVA

**Dr. Padma**  
**PRINCIPAL**

DR. PADMAA M. PAARAKH



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## COURSE ON MOLECULAR DOCKING

(Course Code: MDOC 2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	05/08/2023	SATURDAY	1:30-2:30 PM	Inauguration & MODULE 1	Mrs Pradeepa Prasad
2	05/08/2023	SATURDAY	3:00-4:00 PM	MODULE 1	Mrs Pradeepa Prasad
3	10/08/2023	THURSDAY	4:30-5:30 PM	MODULE 1	Mrs Pradeepa Prasad
4	11/08/2023	FRIDAY	4:30-5:30 PM	MODULE 1	Mrs Pradeepa Prasad
5	12/08/2023	SATURDAY	1:30-2:30 PM	MODULE 1	Mrs Pradeepa Prasad
6	12/08/2023	SATURDAY	3:00-4:00 PM	MODULE 1	Mrs Pradeepa Prasad
7	17/08/2023	THURSDAY	4:30-5:30 PM	MODULE 1	Mrs Pradeepa Prasad
8	18/08/2023	FRIDAY	4:30-5:30 PM	MODULE 1	Mrs Pradeepa Prasad
9	19/08/2023	SATURDAY	1:30-2:30 PM	MODULE 1	Mrs Pradeepa Prasad
10	19/08/2023	SATURDAY	3:00-4:00 PM	MODULE 1	Mrs Pradeepa Prasad
11	24/08/2023	THURSDAY	4:30-5:30 PM	MODULE 2	Mrs Pradeepa Prasad
12	25/08/2023	FRIDAY	4:30-5:30 PM	MODULE 2	Mrs Pradeepa Prasad
13	26/08/2023	SATURDAY	1:30-2:30 PM	MODULE 2	Mrs Pradeepa Prasad
14	26/08/2023	SATURDAY	3:00-4:00 PM	MODULE 2	Mrs Pradeepa Prasad
15	31/08/2023	THURSDAY	4:30-5:30 PM	MODULE 2	Mrs Pradeepa Prasad
16	01/09/2023	FRIDAY	4:30-5:30 PM	MODULE 2	Mrs Pradeepa Prasad
17	02/09/2023	SATURDAY	1:30-2:30 PM	MODULE 2	Mrs Pradeepa Prasad
18	02/09/2023	SATURDAY	3:00-4:00 PM	MODULE 2	Mrs Pradeepa Prasad
19	07/09/2023	THURSDAY	4:30-5:30 PM	MODULE 2	Mrs Pradeepa Prasad
20	08/09/2023	FRIDAY	4:30-5:30 PM	MODULE 2	Mrs Pradeepa Prasad
21	09/09/2023	SATURDAY	1:30-2:30 PM	MODULE 3	Mrs Pradeepa Prasad
22	09/09/2023	SATURDAY	3:00-4:00 PM	MODULE 3	Mrs Pradeepa Prasad
23	14/09/2023	THURSDAY	4:30-5:30 PM	MODULE 3	Mrs Pradeepa Prasad
24	15/09/2023	FRIDAY	4:30-5:30 PM	MODULE 3	Mrs Pradeepa Prasad
25	16/09/2023	SATURDAY	1:30-2:30 PM	MODULE 3	Mrs Pradeepa Prasad
26	16/09/2023	SATURDAY	3:00-4:00 PM	MODULE 3	Mrs Pradeepa Prasad
27	21/09/2023	THURSDAY	4:30-5:30 PM	MODULE 3	Mrs Pradeepa Prasad
28	22/09/2023	FRIDAY	4:30-5:30 PM	MODULE 3	Mrs Pradeepa Prasad
29	23/09/2023	SATURDAY	1:30-2:30 PM	MODULE 3	Mrs Pradeepa Prasad
30	05/10/2023	THURSDAY	4:30-5:30 PM	MODULE 3	Mrs Pradeepa Prasad
31	06/10/2023	FRIDAY	4:30-5:30 PM	Valedictory	Valedictory

CO-ORDINATOR

Mrs Pradeepa Prasad

HOD

Dr Jyoti Shrivastava

PRINCIPAL

Dr Padmaa M. Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru --560 068

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**COURSE ON MOLECULAR DOCKING**

**(Course Code: MDOC 2022-23)**

**OUTCOME REPORT**

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bangalore- 560068, completed course on MOLECULAR DOCKING (Course Code: MDOC 2022-23). 15 students were registered and the course was conducted for **30 hours**. This course trains registrants to have a thorough knowledge about the docking theory that will be quite helpful in the further studies and research activities. The course focuses on the various theories and concepts of molecular docking, virtual screening and its practical application.

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

- Handle various software used for molecular docking studies.
- Learn the most frequently used methods of structure-based drug design.
- Use various docking methods, which is used in drug discovery studies and to develop the desired three-dimensional structures of compounds.
- Learn about methods used to estimate a compound's biological activity by looking at how it interacts with prospective targets.

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

**CO-ORDINATOR**

Mrs. Pradeepa Prasad

**HOD**

Dr. Jyoti Shrivastava

**P. Padma**  
**PRINCIPAL**

Dr. Padmaa M. Parakh





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**COURSE ON MOLECULAR DOCKING**

**(Course Code: MDOC 2022-23)**

**COMPLETION REPORT**

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bangalore, conducted a course on Molecular Docking (Course Code: MDOC 2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basics of Molecular Docking to benefit them about the various virtual screening techniques, software for design novel drugs and analysis the data from experimental work. This course had given enough knowledge to understand methods of drug design, virtual analysing methods, docking and carrying out research in their future.

The course was started with a formal inaugural function by welcoming the Principal Dr. Padmaa M Paarakh. All the participants were introduced by Dr. Jyoti Shrivastava, HOD, Professor, department of pharmaceutical chemistry. All the 15 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 Thursday, Friday and Saturday. Total 15 students were enrolled for the Molecular Docking 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 40.6% students scored grade A (marks percentage-91-100%) in all the tests followed by 42.2% who scored grade B (marks percentage-81-90%) and 13.33 % scored grade C (marks percentage-71-80 %) and 3.9 % scored grade D (marks percentage-61-70 %). The performance of the students in the tests were found to be excellent. About Eighty one percent of the students had scored more than 90% 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 06/10/23 and the course participation certificate were distributed to all 15 students by the Principal Dr. Padmaa M. Paarakh and Head of the Department Dr Jyoti Shrivastava. Dr. Jyoti, 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.

**CO-ORDINATOR**

Mrs. Pradeepa Prasad

**HOD**

Dr. Jyoti Shrivastava

**P. Padmaa**  
**PRINCIPAL**

Dr Padmaa M. Paarakh





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## COURSE ON APPLIED BIOINFORMATICS

(Course Code: APBI 2022-23)

### Notice

**Date: 5-01-2023**

To

### Notice Board

To be read in the class rooms

Course Coordinators -Mrs. Vishnupriya S. & Mrs Pradeepa Prasad

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on **Applied Bioinformatics** for the academic year 2022-23, for the benefit of M.Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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 7<sup>th</sup> Jan 2023 and will be conducted after the college hours on Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Mrs. Vishnupriya S & Mrs Pradeepa Prasad, course coordinators on or before 6<sup>th</sup> Jan 2023.

Course Coordinators

Mrs Vishnupriya S

Mrs Pradeepa prasad

HOD

Dr Jyoti Shrivastava

PRINCIPAL

Dr Padmaa M Paarakh



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## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr Jyoti Shrivastava Department of Pharmaceutical Chemistry TOCP, Bangalore.
Program Coordinator	Mrs. Vishnupriya S & Mrs. Pradeepa prasad Department of Pharmaceutical Chemistry TOCP, Bangalore.

## For Further Information Contact

Mrs. Vishnupriya S

Assistant Professor

Department of Pharmaceutical

Chemistry

TOCP, Bangalore

Email: vishnupriya423@gmail.com

## THE OXFORD COLLEGE OF PHARMACY

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## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., M.Pharm, B. Pharm, Pharm. D and Pharm. D (Post-Baccalaureate)

Course

On

“APPLIED

BIOINFORMATICS”



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:-06/01/2023

Date of commencement:07/01/2023

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 Bangalore-68
Contact person for registration	Mrs Vishnupriya S 8523960267 Mrs Pradeepa prasad 8921969168

### STRUCTURE

- Course will be conducted for total 30 hours after the college hours.
- Course will be conducted through Offline mode.
- Every Friday and Saturday. (offline).

### COURSE DESCRIPTION

The Department of Pharmaceutical Chemistry, TOCP , Bangalore introduces a thirty hours course on Applied Bioinformatics (Course Code: APBI 2022-23). This course offers the basic knowledge about the Bioinformatics tools which can be applied in the drug development.

## OBJECTIVES OF

### PROGRAM

- Through Bioinformatics studies one can analyses & get the key information about the entire drug discovery and development process
- Knowing the basics of Pharmaceutical bioinformatics one can gain the research field related knowledge and also can focus on studying biological and chemical processes in the pharmaceutical area; that is understanding of how molecules interact with the human body and the drug discovery process

### FINAL ASSESSMENT

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

### DURATION

- Thirty hours.

## OUTCOME

- This course will provides the uses of wide range of drug-related databases and software's, which can be used for various purposes, related to drug designing and development process.
- Students will learn about more methods for efficient target discovery and validation approaches
- Students will learn about predicting and understanding drug metabolism (biotransformation) including information regarding the structure-metabolism relationships.

### REGISTRATION PROCESS

- Contact your course coordinators and register.





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Course on APPLIED BIOINFORMATICS

(Course Code: APBI 2022-23)

## List of Students

S.No	Student Name	Signature
1	KRUTHIK R M	Kruthik
2	LAKSHMI T	Lakshmi
3	LALITH KISHORE	Lalith
4	LAVANYA M	Lavanya. m.
5	LAVANYA S	Lavanya. S.
6	MADHUDHARSHINI R	Madhudharshini
7	MAGESH S	Magesh. S
8	MALAVYA C	Malavya
9	MANASH PRATIM TAID	Manash
10	MANOJ A N	Manoj
11	MEGHNA	Meghna
12	MOHAMED ASHWAQ S	MO. Ashwaq

Course Coordinators

Mrs Vishnupriya S

Mrs Pradeepa prasad

HOD

Dr Jyoti Shrivastava

PRINCIPAL

Dr Padmaa M Paarakh



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## Course on APPLIED BIOINFORMATICS

(Course Code: APBI 2022-23)

### Syllabus

MODULES	TOPICS
MODULE - I	Introduction to bioinformatics
	Historical Overview of bioinformatics
	Objective of bioinformatics
	Broad coverage of bioinformatics
	Components of bioinformatics
	Human genome project
	Biological Databases
	Internet and Bioinformatics
	Knowledge discovery of bioinformatics
	Bioinformatics and molecular medicine
	Genomic medicine
	Medical informatics vs bioinformatics
	Bioinformatics database
	Classification of bioinformatics
Primary database secondary database	
MODULE - II	Proteins database
	Molecular modelling
	Quantum mechanics
	Ab initio method
	Density function theory
	Semi empirical molecular orbital methods
	Molecular mechanics
	Molecular mechanics and energy minimization
	Homology modelling
	Structure and prediction by homology modelling
	Steps of homology modelling
	De novo drug design; Molecular dynamics method
	Applications; Limitations of bioinformatics
	Genomic tools
3D structure prediction, visualization, and evaluation	

Course Coordinators

HOD

PRINCIPAL

Mrs Vishnupriya S

Dr Jyoti Shrivastava

Dr Padmaa M Paarakh

Mrs Pradeepa prasad



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**Course on APPLIED BIOINFORMATICS (Course Code: APBI 2022-23)**

## SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	7-1-2023	Saturday	1.30-2.30	Inauguration and Module-1	Mrs Pradeepa prasad
2	13-1-2023	Friday	4.30-5.30	Module-1	Mrs Pradeepa prasad
3	20-1-2023	Friday	4.30-5.30	Module-1	Mrs Pradeepa prasad
4	21-1-2023	Saturday	1.30-2.30	Module-1	Mrs Pradeepa prasad
5	27-1-2023	Friday	4.30-5.30	Module-1	Mrs Pradeepa prasad
6	28-1-2023	Saturday	1.30-2.30	Module-1	Mrs Pradeepa prasad
7	3-2-2023	Friday	4.30-5.30	Module-1	Mrs Pradeepa prasad
8	4-2-2023	Saturday	1.30-2.30	Module-1	Mrs Pradeepa prasad
9	10-2-2023	Friday	4.30-5.30	Module-1	Mrs Pradeepa prasad
10	11-2-2023	Saturday	1.30-2.30	Module-1	Mrs Pradeepa prasad
11	17-2-2023	Friday	4.30-5.30	Module-1	Mrs Pradeepa prasad
12	24-2-2023	Friday	4.30-5.30	Module-1	Mrs Pradeepa prasad
13	25-2-2023	Saturday	1.30-2.30	Module-1	Mrs Pradeepa prasad
14	3-3-2023	Friday	4.30-5.30	Module-1	Mrs Pradeepa prasad
15	4-3-2023	Saturday	1.30-2.30	Module-1	Mrs Pradeepa prasad
16	11-3-2023	Saturday	1.30-2.30	Module-2	Mrs Vishnupriya S
17	17-3-2023	Friday	4.30-5.30	Module-2	Mrs Vishnupriya S
18	18-3-2023	Saturday	1.30-2.30	Module-2	Mrs Vishnupriya S
19	24-3-2023	Friday	4.30-5.30	Module-2	Mrs Vishnupriya S
20	25-3-2023	Saturday	1.30-2.30	Module-2	Mrs Vishnupriya S
21	31-3-2023	Friday	4.30-5.30	Module-2	Mrs Vishnupriya S
22	1-4-2023	Saturday	1.30-2.30	Module-2	Mrs Vishnupriya S
23	8-4-2023	Saturday	1.30-2.30	Module-2	Mrs Vishnupriya S
24	15-4-2023	Saturday	1.30-2.30	Module-2	Mrs Vishnupriya S
25	21-4-2023	Friday	4.30-5.30	Module-2	Mrs Vishnupriya S
26	28-4-2023	Friday	4.30-5.30	Module-2	Mrs Vishnupriya S
27	29-4-2023	Saturday	1.30-2.30	Module-2	Mrs Vishnupriya S
28	5-5-2023	Friday	4.30-5.30	Module-2	Mrs Vishnupriya S
29	6-5-2023	Saturday	1.30-2.30	Module-2	Mrs Vishnupriya S
30	12-5-2023	Friday	4.30-5.30	Module-2	Mrs Vishnupriya S
31	13-5-2023	Saturday	1.30-2.30	Valedictory function	Valedictory

### COURSE COORDINATORS

Mrs Vishnupriya S  
Mrs Pradeepa prasad

### HOD

Dr Jyoti Shrivastava

### Principal

Dr Padma M Paarakh



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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)

Accredited by NAAC and International Accreditation Organization (IAO)

## COURSE ON APPLIED BIOINFORMATICS

(Course Code: APBI 2022-23)

### Outcome Report

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bangalore- 560068 had completed course on APPLIED BIOINFORMATICS (Course Code: APBI 2022-23). About 12 students were registered and the course was conducted for 30 hours. This course trains registrants to have a key information throughout the drug discovery and development process. The course focuses on the various theories and concepts to understand, how molecules interact with the human body and the drug discovery process.

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

- Use wide range of drug-related databases and software's, which can be used for various purposes, related to drug designing and development process.
- Learn about more methods for efficient target discovery and validation approaches.
- Learn about predicting and understanding drug metabolism (biotransformation) including information regarding the structure-metabolism relationships.

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

Course Coordinators

Mrs Vishnupriya S

Mrs Pradeepa Prasad

*Jt*  
HOD

Dr Jyoti Shrivastava

*P. Padma*  
PRINCIPAL

Dr Padmaa M Paarakh







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## COURSE ON APPLIED BIOINFORMATICS

(Course Code: APBI 2022-23)

### Completion Report

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bangalore, conducted a course on Applied Bioinformatics (Course Code: APBI 2022-23) for the academic year 2022-23. The course was intended to impart knowledge about the basics principles and techniques related to applied bioinformatics.

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 Vishnupriya S, Mrs Pradeepa Prasad. Total 12 students were present. Our Principal had emphasized on the importance of doing such courses for the betterment of their future. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs Vishnupriya S.

A total 30 hours' course had been conducted after the college hours on Friday and Saturday. Total 12 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 23.33 % students scored grade A (marks percentage-95-100%) in all the tests followed by 37.77 % who scored grade B (marks percentage-90-94%) and 38.88 % 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 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 13/05/2023 and the course participation certificate were distributed to all 12 students by the Principal Dr. Padmaa M.Paarakh and Head of the Department Dr Jyoti Shrivastava. Dr. Jyoti, 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 coordinators Mrs Vishnupriya and Mrs Pradeepa Prasad for successful completion of the course.

Course Coordinators

Mrs Vishnupriya S

Mrs Pradeepa Prasad

  
HOD

Dr Jyoti Shrivastava

  
PRINCIPAL

Dr Padmaa M Paarakh



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**COURSE ON PHARMA MARKETING**

(Course Code: PM 2022-23)

**NOTICE**

**Date: 02-01-2023**

To

**Notice Board**

To be read in the class rooms

Course Coordinator: Ms. Suvarna Lakshmi,

To be filed

The Oxford College of Pharmacy, Bangalore introduces **30 hours** course in Pharma Marketing for the academic year 2022-23, for the benefit of B. Pharm, M. Pharm, Pharm. D and Pharm. D (Post baccalaureate) 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 will start from 6<sup>th</sup> January 2023 and will be conducted on Friday and Saturday after the college hours. The eligibility criteria include students pursuing Pharmacy degree, that is B. Pharm, Pharm. D, and Pharm. D (Post baccalaureate) and M. Pharm students. Interested students can enroll with Ms. Suvarna Lakshmi course coordinators on or before 4<sup>th</sup> January 2023.

*G. Suvarna*

**CO-ORDINATORS**

**Mrs. Suvarna Lakshmi**

**Dr. G. Nagalakshmi**

**Mrs. Chanda Ranjan**

**HOD**

*Jyoti Shrivastava*

**Dr. Jyoti Shrivastava**

*P. Padma*  
**PRINCIPAL**

**Dr. Padmaa M. Paarakh**



## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCOP, Bangalore.
HOD	Dr. Jyoti Shrivastava, Department of Pharmaceutical Chemistry, TOCOP, Bangalore.
Program Coordinator	Dr. G. Nagalakshmi, Ms. Suvar Mrs. Chandaranjan Department of Pharmaceutical Chemistry, TOCOP, Bangalore.

## THE OXFORD COLLEGE OF

### PHARMACY

The Oxford College of Pharmacy (TOCOP) was established in 1992. TOCOP under the aegis of Children's Education Society (R) offers D Pharm, B. Pharm, M. Pharm, Pharm. D, and Pharm. D (Post Baccalaureate) programs. TOCOP 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 and NAAC. TOCOP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

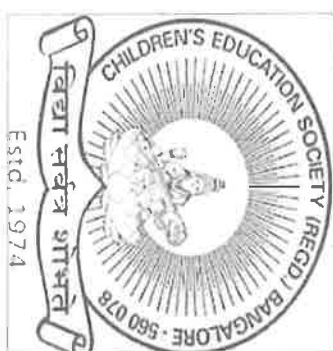
### ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., M.Pharm and Pharm. D (Post-Baccalaureate)  
Students from second year Pharm.D.

## COURSE

On

## “PHARMA MARKETING”



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: 4<sup>th</sup> January 2023

Date of commencement: 06<sup>th</sup> January 2023

Planned Examination : After completion  
of 30 hours classes.

### For Further Information Contact

**Dr. G.Nagalakshmi**

Associate Professor

Department of Pharmaceutical

Chemistry

TOCOP, Bangalore

Email:

[nagalakshmi@pharma@gmail.com](mailto:nagalakshmi@pharma@gmail.com)

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Dr. G.Nagalakshami 8220611134 Ms. Suvarna Lakshmi 9902051815

### STRUCTURE

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

### COURSE DESCRIPTION

The Department of Pharmaceutical Chemistry, TOCOP, Bangalore-560068 introduces a Thirty hours value added course on “Pharma Marketing” (Course Code: PM). This course offers the basic knowledge about the Marketing, Pharmaceutical Market.

### OBJECTIVES OF

#### TRAINING PROGRAM

- This value added course will help the students in understanding the importance of Marketing, Pharmaceutical Market, Product decision, Promotion, Emerging Concepts in Marketing.

### FINAL ASSESSMENT

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

### DURATION

**Thirty hours**

### COURSE OUTCOME

- This course provides able to understand the general concepts and scope of marketing.
- Students will learn about analyzing consumer and industrial buying behaviour.

- Students can understand about different aspects of pharmaceutical marketing and will study about motivation and prescribing habits of the Physician.

### REGISTRATION PROCESS

Contact to the Co-ordinator.



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## COURSE IN PHARMA MARKETING 2022-23

(COURSE CODE: PM)

### REGISTRATION LIST

S.No	Student Name	Signature
1	Abhirami P Pillai	
2	Afrah fathima	
3	Aijinghun umsong	
4	Akshaya S	
5	Amit kumar jena	
6	Arsuhi Nair	
7	Bhavana M Reddy	
8	Harshitha G S	
9	Hashuba N	
10	Heena K	
11	Keerthi Reddy M	
12	Kiruba Evanjalini M	
13	Mohammed Shadaab	
14	Monish T	
15	Rahib S	
16	Rakshitha K C	

CO-ORDINATORS

Mrs. G. Suvarnalakshmi   
Dr. Nagalakshmi.g   
Mrs. Chandaranjan

Dr. Jyoti shrivastava

P. Padma  
PRINCIPAL

Dr. Padmaa m paarakh



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## COURSE ON PHARMA MARKETING

(COURSE CODE: PM 2022-23)

### SYLLABUS

S. NO	MODULE	TOPIC
I	Introduction	Introduction to the program
II	Module I	Marketing and Pharmaceutical market
		General Concepts and scope of marketing
		Marketing, selling and Marketing Environment
		Industry and Competitive Analysis in strategic Management
		Consumer buying behaviour and industry buying behaviour
		Demographic and Socio-physiological characteristic of consumer
		Qualitative and Quantitative Market Research
		Analysing the market: Role of market research.
III	Module II	Product Decision and Promotion
		Product life cycle and product portfolio analysis.
		Classification of decision
		Product management in pharmaceutical industry.
		Determinants of promotion and its budget.
		Overview of personal selling, advertising.
		Online promotion techniques for OTC Products.
IV	Module III	Professional marketing channels and pricing
		Pharmaceutical marketing channels.
		Professional sales representatives.
		Duties of professional sales representative
		Pricing.
		Pricing and overview of DPCO and NPPA.
		Emerging concepts in marketing.

CO-ORDINATORS

Mrs. G. SUARNALAKSHMI

Dr. NAGALAKSHMI.G

Mrs. CHANDARANJAN

HOD

Dr. JYOTI SHRIVASTAVA

PRINCIPAL

Dr. PADMAA M PAARAKH



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## COURSE ON PHARMA MARKETING

(Course Code: PM 2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	06-01-2023	FRIDAY	4:30 PM-5:30 PM	INAUGURATION	Dr. Padmaa. M. Paarakh Dr. Jyoti Shrivasthava
2	20-01-2023	FRIDAY	4:30 PM -5:30 PM	Module I	Mrs Suvarnalakshmi G
3	21-01-2023	SATURDAY	2.00 PM -3.00 PM	Module I	Mrs Suvarnalakshmi G
4	21-01-2023	SATURDAY	3.00 PM -4.00 PM	Module I	Mrs Suvarnalakshmi G
5	27-01-2023	FRIDAY	4:00 PM -5:00 PM	Module I	Mrs Suvarnalakshmi G
6	03-02-2023	FRIDAY	4:00 PM -5:00 PM	Module I	Mrs Suvarnalakshmi G
7	04-02-2023	SATURDAY	2.00 PM -3.00 PM	Module I	Mrs Suvarnalakshmi G
8	04-02-2023	SATURDAY	3.00 PM -4.00 PM	Module I	Mrs Suvarnalakshmi G
9	10-02-2023	FRIDAY	4:00 PM -5:00 PM	Module I	Mrs Suvarnalakshmi G
10	11-02-2023	SATURDAY	2.00 PM -3.00 PM	Module I	Mrs Suvarnalakshmi G
11	11-02-2023	SATURDAY	3.00 PM -4.00 PM	Module I	Mrs Suvarnalakshmi G
12	17-02-2023	FRIDAY	4:00 PM -5:00 PM	Module II	Dr Nagalakshmi G
13	17-02-2023	FRIDAY	5.00 PM -6.00 PM	Module II	Dr Nagalakshmi G
14	03-03-2023	FRIDAY	4.00 PM -5.00 PM	Module II	Dr Nagalakshmi G
15	03-03-2023	FRIDAY	5:00 PM -6:00 PM	Module II	Dr Nagalakshmi G
16	04-03-2023	SATURDAY	2.00 PM -3.00 PM	Module II	Dr Nagalakshmi G
17	04-03-2023	SATURDAY	3.00 PM -4.00 PM	Module II	Dr Nagalakshmi G
18	17-03-2023	FRIDAY	4:00 PM -5:00 PM	Module II	Dr Nagalakshmi G
19	18-03-2023	SATURDAY	2.00 PM -3.00 PM	Module II	Dr Nagalakshmi G
20	18-03-2023	SATURDAY	3.00 PM -4.00 PM	Module II	Dr Nagalakshmi G
21	31-03-2023	FRIDAY	4:00 PM -5:00 PM	Module III	Mrs Chanda Ranjan
22	31-03-2023	FRIDAY	5.00 PM -6.00 PM	Module III	Mrs Chanda Ranjan
23	01-04-2023	SATURDAY	2.00 PM-3.00 PM	Module III	Mrs Chanda Ranjan



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24	01-04-2023	SATURDAY	3:00 PM -4:00 PM	Module III	Mrs Chanda Ranjan
25	08-04-2023	SATURDAY	2.00 PM -3.00 PM	Module III	Mrs Chanda Ranjan
26	08-04-2023	SATURDAY	3.00 PM -4.00 PM	Module III	Mrs Chanda Ranjan
27	15-04-2023	SATURDAY	2:00 PM -3:00 PM	Module III	Mrs Chanda Ranjan
28	15-04-2023	SATURDAY	3.00 PM -4.00 PM	Module III	Mrs Chanda Ranjan
29	29-04-2023	SATURDAY	2.00 PM -3.00 PM	Module III	Mrs Chanda Ranjan
30.	29-04-2023	SATURDAY	3.00 PM -4.00 PM	Module III & VALEDICTORY	Mrs Chanda Ranjan

**COORDINATORS**

Dr. G. Nagalakshmi *GN*

Mrs. G. Suvarna Lakshmi *GS*

Mrs. Chanda Ranjan *CR*

**HOD**

Dr. Jyoti Shrivastava *JS*

*P. Padma*  
**PRINCIPAL**

Dr. Padmaa M. Paarakh



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## COURSE IN PHARMA MARKETING (COURSE CODE: PM 2022-23)

### COURSE OUTCOME REPORT

The Department of Pharmaceutical chemistry, The Oxford College of Pharmacy, Bangalore- 560068, completed Value Added Course in Pharma Marketing 2022-23 (Course Code: PM). About 16 students were registered and the course was conducted for 30 hours. This course outcome is to understand the pharmaceutical industry's structure, regulatory frameworks, market dynamics. The course focused on enhancing the knowledge about the pharmaceutical products, their development, manufacturing, and how to effectively market them.

#### Course Outcome:

At the end of this course students were able to

- Understand the regulatory compliance, sales techniques, ethical considerations and also effective communication.
- Capable of comprehending consumer behaviour and ethical issues in pharmaceutical marketing, including responsible promotion and interactions with healthcare professionals.
- Understand the marketing concepts and techniques and their applications in the pharmaceutical industry.

COORDINATOR

MRS. G. SUARNALAKSHMI

Dr. NAGALAKSHMI.G

Mrs. CHANDARANJAN

Dr. JYOTI SHRIVASTAVA

PRINCIPAL

Dr. PADMAA M PAARAKH



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## COURSE ON PHARMA MARKETING (Course Code: PM 2022-23)

### COMPLETION REPORT

The Department of Pharmaceutical Chemistry, The Oxford college of Pharmacy, Bangalore, conducted a course on "PHARMA MARKETING" (Course Code: PM 2022-23) for the academic year 2022-23. This course was intended to help the students in understanding the importance of marketing, pharmaceutical market, product decision, promotion, emerging concepts in marketing. It helped the students to understand the general concepts and scope of marketing and have the understanding of the marketing field. Students learnt about analyzing consumer and industrial buying behavior. They were able to learn the different aspects of pharmaceutical marketing and studied about motivation and prescribing habits of the Physician. 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. G. Suvarnalakshmi & Ms. Chanda Ranjan. Total 16 students were present. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs. G. Suvarnalakshmi.

Total 30 hours' course had been conducted after the college hours on Friday and Saturday. Total 16 students were enrolled for this course. 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 results of module I, II, & III and overall were analysed. The students scored good grades in all the tests conducted for all the three modules. Approximately 57.60 % students scored grade A in all the tests followed by 34.78 % who scored grade B and 7.60 % scored grade C and 0.00 % scored grade D. The performance of the students in the tests were found to be excellent. About 85% of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and exploring themselves through the interactive sessions conducted.

The valedictory function has been conducted on 29/04/2023 and the course participation certificate were distributed to all 16 students by the Principal Dr. Padmaa M. Paarakh and Head of the Department Dr Jyoti Shrivastava. Dr. Jyoti, 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 has appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmaceutical Chemistry and the course coordinators Mrs. G. Suvarnalakshmi, Dr. G. Nagalakshmi, & Mrs Chanda Ranjan for successful completion of the course.

CO-ORDINATORS

Dr. G. Nagalakshmi *G.N.*

Mrs. G. Suvarnalakshmi *G. Suvarnalakshmi*

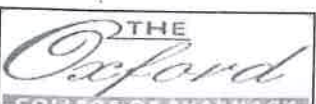
Mrs. Chanda Ranjan *CR*

*Jyoti*  
NOD

Dr. Jyoti Shrivastava

*P. Padmaa*  
PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON RESEARCH & REVIEW PAPER, RESEARCH PROPOSAL WRITING SKILLS

(Course Code: RRPWS 2022-23)

### NOTICE

Date: 07-02-2023

To

Notice Board

To be read in the class rooms

Course Coordinator- Dr. G.Nagalakshmi

To be filed

The Oxford College of Pharmacy, Bangalore introduces **30 hours** course on **Research & Review Paper, Research Proposal Writing Skills** for the academic year 2022-23, for the benefit of M.Pharm, B.Pharm, Pharm D and 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 17<sup>th</sup> Feb 2023 and will be conducted after the college hours on Thursday, Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B.Pharm, Pharm D and Pharm. D (PB) students. Interested students can enroll with Dr. G. Nagalakshmi, course coordinator on or before 14<sup>th</sup> Feb 2023.

*G. Nagalakshmi*  
Course Coordinator

Dr. G. Nagalakshmi

*Jyoti Shrivastava*  
HOD

Dr. Jyoti Shrivastava

*P. Padma*  
PRINCIPAL

Dr. Padmaa M. Paarakh



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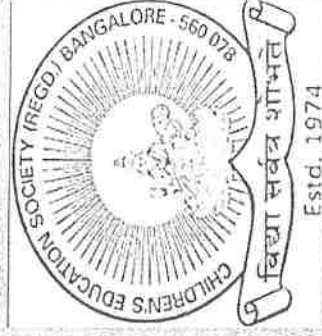
### Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr. Jyoti Shrivastava, Department of Pharmaceutical Chemistry, TOCP, Bangalore.
Program Coordinator	Dr. G. Nagalakshmi Department of Pharmaceutical Chemistry, TOCP, Bangalore.

### For Further Information Contact

Dr. G.Nagalakshmi  
Associate Professor  
Department of Pharmaceutical  
Chemistry  
TOCP, Bangalore  
Email:  
nagalakshmiipharma@gmail.com

## Course On “ RESEARCH & REVIEW PAPER, RESEARCH PROPOSAL WRITING SKILLS ”



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: 14/02/2023

Date of commencement: 17/02/2023

Planned Examination : After completion  
of 30 hours classes.

### 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 and NAAC. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., M.Pharm and Pharm. D (Post-Baccalaureate)  
Students from First and second year Pharm.D (Post baccalaureate), First and second year M.Pharm.



## REGISTRATION

Registration	NIL
Fees	It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Dr. G.Nagalakshami 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, Bangalore- 560068 introduces a Thirty hours course on Research & Review Paper, Research Proposal Writing Skills (Course Code: RRPWS 2022-23). This course offers the basic knowledge about the Research Paper Writing which can be applied in the research work publication.

## OBJECTIVES OF PROGRAM

- A research paper is very important part of academic writing where one can research about any topic without any disturbances and collect the necessary information about the findings.

## OUTCOME

- This course provides an overview of skills required to write a good research and review paper.
- Students will learn how to analyze information sources.
- Students can develop a questioning mindset.
- Students will learn to brainstorm original ideas and avoid plagiarism.

## REGISTRATION PROCESS

- Contact your course coordinators and register.

## FINAL ASSESSMENT

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

## DURATION

**Thirty hours**



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# The Oxford College of Pharmacy

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## COURSE ON RESEARCH & REVIEW PAPER, RESEARCH PROPOSAL WRITING SKILLS

(Course code: RRPWS 2022-23)

### List of Students

S.No	Student Name	Signature
1	KIRAN P	Kiran
2	MONISHA K.C	Monisha
3	MONISHA S	Monisha
4	NITHIN KUMAR C	Nithin Kumar
5	PURUSHOTTAM M	Purushottam
6	YAKSHITA M	Yakshitha
7	SHIVANI	Shivani
8	ATHMAJA SHETTY	Athma
9	KRISHNAGIRI KRISHNABABU	Krishnababu
10	RAKESH BABU SN	Rak
11	YOGARAJ R	Yog
12	YUKTHA HJ	Yuktha
13	CHRISTINA JAMES	Chr
14	BHUVANESHWARI	Bhu
15	BINDU	Bindu
16	RAJDEEP KAUR	Rajdeep

G. Nagalakshmi  
Course Coordinator

Dr. G. Nagalakshmi

HOD

Dr. Jyoti Shrivastava

P. Padma  
PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON RESEARCH & REVIEW PAPER, RESEARCH PROPOSAL WRITING SKILLS

(Course code: RRPWS 2022-23)

### SYLLABUS

MODULE	TOPIC
Introduction	Introduction to the Program
Module 1: Research & Review Paper Writing Skills	<b>Mechanics of Writing a Research Report</b>
	Size and Physical design, Layout
	Treatment of Quotations, Footnotes
	Documentation style, Punctuation and abbreviations in footnotes
	Use of Statistics, Charts and Graphs
	Final draft, Bibliography, Preparation of the Index
	<b>Precautions for Writing Research Reports</b>
	Preparation of Manuscripts: Research & Review Articles
	Indian Journal of Pharmaceutical Sciences (IJPS)
	International Journal of Drug Discovery & Research (IJDDR)
	Pharmacologyonline
	Der Pharmacia Chemica
Module 2: Research Proposal Writing Skills	<b>Title, abstract, Introduction, R.O.L, Aims</b>
	Title, abstract
	Introduction, Aims
	<b>Objectives, Question &amp; /or hypotheses, methodology, Plan for analysis of results</b>
	Objectives, Question & /or hypotheses,
	methodology, Plan for analysis of results
	<b>Bibliographic references, Time table, Budget,</b>



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	<b>Annexes</b>
	Bibliographic references
	Time table, Budget, Annexes
	<b>Evaluation of Research proposal, Reason for rejecting proposals</b>
	Reason for rejecting proposals
	Evaluation of Research proposal

*G. Nagalakshmi*  
Course Coordinator

Dr. G. Nagalakshmi

*Jyoti*  
HOD

Dr. Jyoti Shrivastava

*P. Padma*  
PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON RESEARCH & REVIEW PAPER, RESEARCH PROPOSAL WRITING SKILLS

(Course Code: RRPWS 2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	17-02-2023	Friday	4.30-5.30	Inauguration and Module-1	Dr. G. Nagalakshmi
2	23-02-2023	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
3	24-02-2023	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
4	25-02-2023	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
5	02-03-2023	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
6	03-03-2023	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
7	04-03-2023	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
8	09-03-2023	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
9	10-03-2023	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
10	11-03-2023	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
11	16-03-2023	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
12	17-03-2023	Friday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
13	18-03-2023	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
14	23-03-2023	Thursday	4.30-5.30	Module-1	Dr. G. Nagalakshmi
15	25-03-2023	Saturday	1.30-2.30	Module-1	Dr. G. Nagalakshmi
16	30-03-2023	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
17	31-03-2023	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
18	01-04-2023	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
19	06-04-2023	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
20	08-04-2023	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
21	13-04-2023	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
22	15-04-2023	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
23	20-04-2023	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
24	21-04-2023	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi



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25	27-04-2023	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
26	28-04-2023	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
27	29-04-2023	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
28	04-05-2023	Thursday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
29	05-05-2023	Friday	4.30-5.30	Module-2	Dr. G. Nagalakshmi
30	06-05-2023	Saturday	1.30-2.30	Module-2	Dr. G. Nagalakshmi
31	11-05-2023	Thursday	4.30-5.30	Valedictory	Valedictory

*G. Nagalakshmi*  
Course Coordinator

Dr. G. Nagalakshmi

HOD

*Jyoti Shrivastava*  
Dr. Jyoti Shrivastava

*P. Padma*  
PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON RESEARCH & REVIEW PAPER, RESEARCH PROPOSAL WRITING SKILLS

(Course Code: RRPWS 2022-23)

### OUTCOME REPORT

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bangalore-560068 had completed Course on RESEARCH & REVIEW PAPER, RESEARCH PROPOSAL WRITING SKILLS (Course Code: RRPWS 2022-23). 16 students were registered and the course was conducted for **30 hours**. This course trains registrants to impart focuses on the various life skill concepts with basic awareness about the significance of soft skills in writing research, review papers & research proposals of the data from experimental work.

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

- Overview of skills required to write a good research and review paper.
- Learn how to analyze information sources.
- Develop a questioning mindset.
- Learn brainstorm original ideas and avoid plagiarism.

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

*G. Nagalakshmi*  
Course Coordinator

Dr. G. Nagalakshmi

HOD *Jyoti Shrivastava*

Dr. Jyoti Shrivastava

*P. Padma*  
PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON RESEARCH & REVIEW PAPER, RESEARCH PROPOSAL WRITING SKILLS

(Course Code: RRPWS 2022-23)

### COMPLETION REPORT

The Department of Pharmaceutical Chemistry, The Oxford College of Pharmacy, Bangalore, conducted a course on Research & Review Paper, Research Proposal Writing Skills (Course Code: RRPWS 2022-23) for the academic year 2022-23. The course was intended to impart focus on the various life skill concepts with basic awareness about the significance of soft skills in writing research, review paper & research proposal of the data from experimental work.

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 16 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 16 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 66.7 % students scored grade A (marks percentage-95-100%) in all the tests followed by 25 % who scored grade B (marks percentage-90-94%) and 8.3 % 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 two 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 11/05/2023 and the course participation certificate were distributed to all 16 students by the Principal Dr. Padmaa M.Paarakh and Head of the Department Dr Jyoti Shrivastava. Dr. Jyoti, 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 Dr. G. Nagalakshmi for successful completion of the course.

G. Nagalakshmi  
Course Coordinator

Dr. G. Nagalakshmi

HOD

Dr. Jyoti Shrivastava

PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON INVIVO MUTAGENICITY AND TERATOGENECITY ACTIVITIES

(Course Code: IVMT 2022-23)

### Notice

Date: 17/1/2023

To

#### Notice Board

To be read in the class rooms

Course Coordinators- Mrs. Keserla Bhavani, Dr. Noopur Srivastava & Dr. Venkata Karthik Kumar Reddy

To be filed

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on **In vivo mutagenicity and teratogenicity activities** for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm, Pharm D and Pharm D (Post Baccalaureate) 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 28<sup>th</sup> January 2023 and will be conducted every Monday and Saturday after class hours. The eligibility criteria include students pursuing Pharmacy degree that is M. Pharm, B. Pharm, Pharm D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Mrs. Keserla Bhavani, course coordinator on or before 25<sup>th</sup> January 2023.

Course Co-coordinator

*Dr. Noopur Srivastava*  
HOD

*P. Padma*  
Principal

Dr. Noopur Srivastava *Dr. Noopur Srivastava* Dr Noopur Srivastava

Dr. Padmaa M Paarakh

Mrs. Keserla Bhavani *K. Keserla Bhavani*

Dr. Venkata Karthik Kumar Reddy *Karthik*



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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. Noopur Srivastava Mrs .Keserla Bhavani, Dr. Venkata Karthik Kumar Reddy, Department of Pharmacology TOCP, Bangalore.

## For Further Information Contact

Mrs Keserla Bhavani

**Dr. Venkata Karthik Kumar  
Reddy**

Assistant Professor

Department of Pharmacology

TOCP, Bangalore

Email: bhavanik76@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, Pharm D, and Pharm. D (Post baccalaureate) and M. Pharm students.

Course On

**“In vivo Mutagenicity and  
Teratogenicity Activities”**



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: 25 Jan 2023

Date of commencement: 28 Jan 2023

Planned Examination : June 2023

## REGISTRATION

Registration	NIL
Fees	It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Mrs Keserla Bhavani 8073108424

## OBJECTIVES OF

### PROGRAM

- Toxicity studies Provides knowledge on the preclinical safety and toxicological evaluation of new chemical entities on foetus and genes
- This course help the students to impart knowledge on the Pharmacological screening of mutagenic and teratogenic studies.

### OUTCOME

- At the end of this course students were able to:
- 1) Understand regulatory guidelines for conducting toxicity studies-OECD
  - 2) Understand the concepts of Segment I, II and III.
  - 3) Understand the guidelines for performing the reproductive toxicity and teratogenic studies.
  - 4) Perform the Toxicokinetic evaluation in preclinical studies.
  - 5) Explains about the in vivo and invitro tests performed for mutagenicity and Teratogenicity studies.

## STRUCTURE

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

## COURSE DESCRIPTION

The Department of Pharmacology TOCP , Bangalore- 560068 introduces a thirty hours certificate course on In vivo Mutagenicity and Teratogenicity activities (Course Code: IVMT 2022-23). This course offers the basic knowledge about the Toxicity studies which can be applied in the lab and research work.

## FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

## DURATION

**Thirty hours** beginning from 28 January 2023.

## REGISTRATION PROCESS

Directly contact Course Co-Ordinator and register.



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## COURSE ON INVIVO MUTAGENICITY AND TEARATOGENICITY ACTIVITIES

(Course Code:IVMT 2022-2023)

### List of students

SL NO	NAME OF THE STUDENT	SIGNATURE
1.	PRAJWAL BR	
2.	RAGULNATH V	
3.	RAJESH NAIDU M	
4.	RAVI RANJAN	
5.	RESHMA J	
6.	ROHAN B	
7.	ROHITH BR	
8.	ROOPA SHREE N	
9.	SG SHREYA SREE	
10.	SAGAR D	
11.	SAHIL	
12.	SANNIDHI J KULKARNI	
13.	SANTOSH A	
14.	SHABARI B E	
15.	S BIRZEES FATHIMA	

Course Co-coordinator

Dr. G. Venkata Kartheek Kumar Reddy

Dr. Noopur Srivastava

Mrs. Keserla Bhavani

HOD

Principal

Dr. Padma M Paarakh





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## COURSE ON INVIVO MUTAGENICITY AND TERATOGENECITY ACTIVITIES.

(Course Code: IVMT 2022-23)

### SYLLABUS

MODULES	TOPICS
<b>Module I</b>	<b>Introduction to toxicity studies</b>
	Concepts of general toxicity studies
	Concepts of mechanistic toxicity studies
	Concepts of Regulatory toxicity studies
	Concepts of descriptive toxicity studies
	Concepts of special toxicity studies
	Regulatory guidelines for conducting toxicity studies-OECD
	Regulatory guidelines for conducting toxicity studies-ICH
	Regulatory guidelines for conducting toxicity studies-EPA
	Regulatory guidelines for conducting toxicity studies- Schedule Y
Test item characterization-Importance and methods in regulatory toxicology studies	
<b>Module II</b>	<b>Reproductive Toxicological studies</b>
	Introduction to reproductive toxicological studies
	Reproductive toxicology studies- types
	Reproductive toxicology studies-female reproductive studies (segment I)
	Teratogenicity studies (segment II)
	Reproductive toxicology studies-female reproductive studies (segment III)
	Male reproductive toxicity studies,
	Carcinogenicity studies
	Importance of toxicity studies
	Mutagenicity studies
Special Reproductive toxicity studies	
<b>Module III</b>	<b>Toxicokinetics</b>
	Introduction to Toxicokinetics
	Toxicokinetics parameters
	Toxicokinetic- saturation kinetics
	Alternative methods to animal toxicity models
	Toxicokinetic- Importance of toxicokinetic studies
	Toxicokinetic evaluation
	Alternative models to animal studies
	Advantages of alternative models to animal testing
Applications of toxicokinetics	

CO-ORDINATORS

Dr. Noopur Srivastava

Mrs. Keserla Bhavani

Dr. Venkata Karthik Kumar Reddy

*K. Bhavani*

*Karthik*

HOD

*N. Srivastava*

Dr. Noopur Srivastava

PRINCIPAL

*P. Padma*

Dr. Padmaa M. Paarakh



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## COURSE ON INVIVO MUTAGENICITY AND TERATOGENECITY ACTIVITIES

(Course Code: IVMT 2022-23)

### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	28/1/2023	Saturday	2:00PM-3:00PM	<b>Inaugural Module-1</b>	Dr. Padmaa. M. Paarakh Dr. Noopur Srivastava
2	30/1/2023	Monday	4:30PM-5:30PM	<b>Module-1</b>	Dr. Noopur Srivastava
3	4/2/2023	Saturday	2:00PM-3:00PM	<b>Module-1</b>	Dr. Noopur Srivastava
4	6/2/2023	Monday	4:30PM-5:30PM	<b>Module-1</b>	Dr. Noopur Srivastava
5	11/2/2023	Saturday	2:00PM-3:00PM	<b>Module-1</b>	Dr. Noopur Srivastava
6	13/2/2023	Monday	4:30PM-5:30PM	<b>Module-1</b>	Dr. Noopur Srivastava
7	20/2/2023	Monday	2:00PM-3:00PM	<b>Module-1</b>	Dr. Noopur Srivastava
8	25/2/2023	Saturday	4:30PM-5:30PM	<b>Module-1</b>	Dr. Noopur Srivastava
9	27/2/2023	Monday	2:00PM-3:00PM	<b>Module-1</b>	Dr. Noopur Srivastava
10	4/3/2023	Saturday	4:30PM-5:30PM	<b>Module-1</b>	Dr. Noopur Srivastava
11	6/3/2023	Monday	2:00PM-3:00PM	<b>Module-1</b>	Dr. Noopur Srivastava
12	11/3/2023	Saturday	4:30PM-5:30PM	<b>Module-2</b>	Mrs. Keserla Bhavani
13	13/3/2023	Monday	2:00PM-3:00PM	<b>Module-2</b>	Mrs. Keserla Bhavani
14	18/3/2023	Saturday	4:30PM-5:30PM	<b>Module-2</b>	Mrs. Keserla Bhavani
15	20/3/2023	Monday	2:00PM-3:00PM	<b>Module-2</b>	Mrs. Keserla Bhavani
16	25/3/2023	Saturday	4:30PM-5:30PM	<b>Module-2</b>	Mrs. Keserla Bhavani
17	27/3/2023	Monday	2:00PM-3:00PM	<b>Module-2</b>	Mrs. Keserla Bhavani
18	1/4/2023	Saturday	4:30PM-5:30PM	<b>Module-2</b>	Mrs. Keserla Bhavani
19	3/4/2023	Monday	2:00PM-3:00PM	<b>Module-2</b>	Mrs. Keserla Bhavani
20	8/4/2023	Saturday	4:30PM-5:30PM	<b>Module-2</b>	Mrs. Keserla Bhavani
21	10/4/2023	Monday	2:00PM-3:00PM	<b>Module-2</b>	Mrs. Keserla Bhavani



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22	15/4/2023	Saturday	4:30PM-5:30PM	Module-3	Dr. Venkata Karthik Kumar Reddy
23	17/4/2023	Monday	2:00PM-3:00PM	Module-3	Dr. Venkata Karthik Kumar Reddy
24	22/4/2023	Saturday	4:30PM-5:30PM	Module-3	Dr. Venkata Karthik Kumar Reddy
25	24/4/2023	Monday	2:00PM-3:00PM	Module-3	Dr. Venkata Karthik Kumar Reddy
26	29/4/2023	Saturday	4:30PM-5:30PM	Module-3	Dr. Venkata Karthik Kumar Reddy
27	6/5/2023	Saturday	2:00PM-3:00PM	Module-3	Dr. Venkata Karthik Kumar Reddy
28	8/5/2023	Monday	2:00PM-3:00PM	Module-3	Dr. Venkata Karthik Kumar Reddy
29	13/5/2023	Saturday	4:30PM-5:30PM	Module-3	Dr. Venkata Karthik Kumar Reddy
30	15/5/2023	Monday	2:00PM-3:00PM	Module-3	Dr. Venkata Karthik Kumar Reddy
31	15/5/2023	Monday	3:00PM-3:30PM	Valedictory	Dr. Venkata Karthik Kumar Reddy

Course Co-coordinators

Dr. Noopur Srivastava *Srivastava* Dr. Noopur Srivastava

Mrs. Keserla Bhavani *K. Bhavani*

Dr. Venkata Karthik Kumar Reddy *Karthik*

*Srivastava*  
HOD

*P. Padma*  
Principal

Dr. Padmaa M Paarakh



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Children's Education Society (Regd.)

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## COURSE ON INVIVO MUTAGENICITY AND TERATOGENECITY ACTIVITIES

(Course Code: IVMT 2022-23)

### Outcome Report

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore- 560068, completed a course on in-vivo mutagenicity and teratogenicity activities 2022-23 (Course Code: IVMT 2022-23). 15 students were registered and the course was conducted for 30 hours. This course has helped the students to understand the basic concept of in vivo mutagenicity and teratogenicity studies in the animals like mice and rats. It explains about the methods used in the study of mutagenic and teratogenic studies.

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

- 1) Understand regulatory guidelines for conducting toxicity studies-OECD
- 2) Understand the concepts of Segment I, II and III.
- 3) Understand the guidelines for performing the reproductive toxicity and teratogenic studies.
- 4) Perform the Toxicokinetic evaluation in preclinical studies.
- 5) Explains about the in vivo and invitro tests performed for mutagenicity and Teratogenicity studies.

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

COORDINATOR

*Dr. Noopur Srivastava*  
HOD

Dr Noopur Srivastava *Dr. Noopur Srivastava* Dr Noopur Srivastava

Mrs. Keserla Bhavani *K. Keserla Bhavani*

Dr. Venkata Karthik Kumar Reddy *Dr. Venkata Karthik Kumar Reddy*

*Dr. Padmaa M. Paarakh*  
PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON INVIVO MUTAGENICITY AND TERATOGENECITY ACTIVITIES

(Course Code: IVMT 2022-23)

### Completion Report

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted a course on In vivo mutagenicity and teratogenicity activities (Course Code: IVMT 2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basics of Toxicity studies according to the OECD guidelines and to benefit them about the various models used for the screening of mutagenesis and teratogenesis. This course had given enough knowledge to understand types of toxicity, methods used for evaluating the toxicity studies and knowledge on toxicokinetics.

The course was started with a formal virtual inaugural function started by welcoming the chief guest Dr Ravi Kumar, Director, The Oxford Group of Institution, Bangalore, and Principal Dr. M. Padmaa Paarakh. The function was conducted offline and all the participants were introduced by Mrs Keserla Bhavani, 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 Mrs Keserla Bhavani.

A total 30 hours course had been conducted after the college hours on Monday 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. After the completion of each module the tests were conducted through Microsoft Forms and the tests were assigned in the Assignment section. All the students were written the test. The final results of the tests conducted for module I, II, III, and overall are depicted in the graph below with the percent of students and the grade scored in the tests conducted during the course. 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.



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The valedictory function has been conducted on 15/05/23 and 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 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. Noopur Srivastava, Mrs. Keserla Bhavani, Dr. Venkata Karthik Kumar Reddy for successful completion of the course.

COORDINATOR

Dr. Noopur Srivastava *N. Srivastava* Dr Noopur Srivastava

Mrs. Keserla Bhavani *K. Bhavani*

Dr. Venkata Karthik Kumar Reddy *K. Karthik*

*N. Srivastava*  
HOD

*P. Padma*  
PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON CELL FREE TRANSCRIPTION AND TRANSLATION

(Course Code: CFTXTL 2022-23)

### Notice

Date: 02-01-2023

To

Notice Board

To be read in the class rooms

Dr. G Venkata Karthik Kumar Reddy

Course Coordinator

To be filed

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on Cell free transcription - translation for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm, Pharm. D and Pharm. D (Post baccalaureate) 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 2023 and will be conducted every Friday and Saturday after class hours. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B. Pharm, Pharm D, and Pharm. D (Post baccalaureate) students. Interested students can enroll with Dr. G Venkata Karthik Kumar Reddy, course coordinator on or before 11<sup>th</sup> January 2023.

*Karthik*

Course Co-coordinator

Dr. G Venkata Karthik Kumar Reddy

*N. Shivastava*

HOD

Dr. Noopur Srivastava

*P. Padma*  
Principal

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.

Email:  
[reddykarthee1995@gmail.com](mailto:reddykarthee1995@gmail.com)

## Course On “Cell free transcription – and translation ”



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: 11 Jan 2023

Date of commencement: 13 Jan 2023

Planned Examination : May 2023

## 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, Pharm D, and Pharm. D (Post baccalaureate) and M. Pharm students.

## REGISTRATION

Registration NIL

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

Contact Dr. G Venkata Karthik  
person for Kumar Reddy  
registarstion 8884183476

## OBJECTIVES OF PROGRAM

- Cell free transcription -translation is an important concept which helps to construct, characterize and interrogate genetically programmed biomolecular systems implemented outside living organisms.

- This course will help the students in understanding the purpose of transcription is to make RNA copies of individual genes that the cell can use in the biochemistry to synthesize proteins, which are used for millions of cellular functions and carrying out a value-added research in their future.

## FINAL ASSESSMENT

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

## DURATION

**Thirty hours** beginning from 13 January 2023.

## OUTCOME

This course offers an unparalleled flexibility to take apart, engineer and analyze quantitatively the effects of chemical, physical and genetic contexts on the function of biochemical systems.

The capabilities of the current cell-free platforms for executing DNA programs in vitro.

Students will learn about the the recent advances in programming using cell-free expression, a multidisciplinary playground that has enabled a myriad of novel applications in synthetic biology, biotechnology

## REGISTRATION PROCESS

Directly contact Course Co-Ordinator and register.

## STRUCTURE

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

## COURSE DESCRIPTION

The Department of Pharmacology, TOCP , Bangalore- 560068 introduces a thirty hours certificate course on Cell free transcription - translation (Course Code: CFTXTL 2022-23). This course offers the basic knowledge about the Invivo - transcription and Translations which can be applied in the lab and research work.



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## COURSE ON CELL FREE TRANSCRIPTION AND TRANSLATION

(Course Code: CFTXTL- 2022-2023)

### List of students

SL NO	NAME OF THE STUDENT	SIGNATURE
1.	LAL REMRUATHI	
2.	SANISAZINI	
3.	ABHISHEK NAVANTH BELURE	
4.	ADITHI SINGH	
5.	AKSHITHA Y	
6.	AMRIN M	
7.	AVANIKAA BS	
8.	ANUSHREE V A	
9.	BISHAL KUMAR DEY	
10.	CHANDRAKANTH G	
11.	DEEPIKA BR	
12.	DHANESHWARI C C	
13.	DHANYATHA S GUPTHA	
14.	DIVYA A	

Course Co-coordinator

Dr. G. Venkata Kartheek Kumar Reddy

HOD

Dr. Noopur Srivastava

Principal

Dr. Padmaa M Paarakh



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## COURSE ON CELL FREE TRANSCRIPTION AND TRANSLATION

(Course Code: CFTXTL 2022-23)

### SYLLABUS

MODULE	TOPICS
MODULE - I	<b>INTRODUCTION :</b> Translation Systems: mRNA-based
	Rabbit Reticulocyte Lysate System, Nuclease-Treated System
	Flexi® Rabbit Reticulocyte Lysate System
	Wheat Germ Extract
	<b>INTRODUCTION:</b> Transcription and Translation Systems: DNA-based
	TnT® SP6 Coupled Reticulocyte Lysate System
	TnT® T7 Coupled Reticulocyte Lysate System
	TnT® T3 Coupled Reticulocyte Lysate System
	TnT® T7 Quick Coupled Transcription/Translation System
	TnT® SP6 Quick Coupled Transcription/Translation System
TnT® T7 Quick for PCR DNA	
MODULE - II	Wheat Germ Extracts- TnT® SP6 High-Yield Wheat Germ Protein Expression System
	Insect Cell Lysate System- TnT® T7 Insect Cell Extract Protein Expression System
	E. coli Extracts- E. coli S30 Extract System for Linear Templates
	S30 T7 High-Yield Protein Expression System
	<b>INTRODUCTION :</b> Cell-Free Protein Labeling Reagents
	FluoroTect™ GreenLys in vitro Translation Labeling System
	Transcend™ Non-Radioactive Translation Detection Systems
	Membrane Vesicles for Signal Peptide Cleavage
Membrane Vesicles for Core Glycosylation	
Canine Pancreatic Microsomal Membranes	
MODULE - III	<b>INTRODUCTION :</b> Analysis of Transcriptional/ Translational Regulation
	Structural RNA analysis
	Characterization of regulatory elements for translation (e.g., UTRs, Capping, IRES)
	RNA virus characterization
	<b>INTRODUCTION :</b> Protein Evolution/ Enzyme Engineering
	Display technologies (e.g., ribosome, mRNA display, in vitro compartmentalization)
	Evolution of antibodies in vitro by ribosome display
<b>INTRODUCTION :</b> Proteome Analysis	
Gene mutation/deletion analysis (e.g., enzyme kinetics) , Gel Shift EMSA	

*Karthik*

Course Co-coordinator

Dr. G Venkata Karthik Kumar Reddy

*Srivastava*

HOD

Dr. Noopur Srivastava

*Padma*

Principal

Dr. Padmaa M Paarakh



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## COURSE ON CELL FREE TRANSCRIPTION AND TRANSLATION

(Course Code: CFTXTL 2022-23)

### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	13-01-2023	Friday	4.30-5.30 pm	<b>Inaugural Module-1</b>	Dr. Padmaa M Paarakh Dr. G Karthik Reddy
2	20-01-2023	Friday	4.30-5.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
3	21-01-2023	Saturday	1.30-2.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
4	27-01-2023	Friday	4.30-5.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
5	28-01-2023	Saturday	1.30-2.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
6	03-02-2023	Friday	4.30-5.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
7	04-02-2023	Saturday	1.30-2.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
9	10-02-2023	Friday	4.30-5.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
10	11-02-2023	Saturday	1.30-2.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
11	17-02-2023	Friday	4.30-5.30 pm	<b>Module-1</b>	Dr. G Karthik Reddy
12	24-02-2023	Friday	4.30-5.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
13	25-02-2023	Saturday	1.30-2.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
14	03-03-2023	Friday	4.30-5.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
15	04-03-2023	Sunday	1.30-2.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
16	10-03-2023	Friday	4.30-5.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
17	11-03-2023	Saturday	1.30-2.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
18	17-03-2023	Friday	4.30-5.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
19	18-03-2023	Saturday	1.30-2.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
20	24-03-2023	Friday	4.30-5.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
21	25-03-2023	Saturday	1.30-2.30 pm	<b>Module-2</b>	Dr. G Karthik Reddy
22	31-03-2023	Friday	4.30-5.30 pm	<b>Module-3</b>	Dr. G Karthik Reddy
23	01-04-2023	Saturday	1.30-2.30 pm	<b>Module-3</b>	Dr. G Karthik Reddy



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24	08-04-2023	Saturday	1.30-2.30 pm	Module-3	Dr. G Karthik Reddy
25	15-04-2023	Saturday	1.30-2.30 pm	Module-3	Dr. G Karthik Reddy
26	21-04-2023	Friday	4.30-5.30 pm	Module-3	Dr. G Karthik Reddy
27	28-04-2023	Friday	4.30-5.30 pm	Module-3	Dr. G Karthik Reddy
28	29-04-2023	Saturday	1.30-2.30 pm	Module-3	Dr. G Karthik Reddy
29	05-05-2023	Saturday	1.30-2.30 pm	Module-3	Dr. G Karthik Reddy
30	12-05-2023	Friday	3.30-4.30 pm	Module-3	Dr. G Karthik Reddy
31	12-05-2023	Friday	4.30-5.00 pm	Valedictory	Dr. Noopur Srivatsava

*Karthik*

Course Co-coordinator

Dr. G Venkata Karthik Kumar Reddy

*Srivastava*

HOD

Dr. Noopur Srivastava

*P. Padma*

Principal

Dr. Padmaa M Paarakh



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## COURSE ON CELL FREE TRANSCRIPTION AND TRANSLATION

(Course Code: CFTXTL 2022-23)

### Course Outcome Report

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore- 560068, completed course on Cell free transcription and translation (Course Code: CFTXTL 2022-23). About 14 students were registered and the course was conducted for **30 hours**. This course has helped the students to understand the capabilities of the current cell-free platforms for executing DNA programs in vitro and to understand the recent advances in programming using cell-free expression, a multidisciplinary playground that has enabled a myriad of novel applications in synthetic biology, biotechnology.

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

- 1) Understand the unparalleled flexibility to take apart, engineer and analyse quantitatively the effects of chemical, physical and genetic contexts on the function of biochemical systems.
- 2) understand the capabilities of the current cell-free platforms for executing DNA programs in vitro.
- 3) learn about the recent advances in programming using cell-free expression, a multidisciplinary playground that has enabled a myriad of novel applications in synthetic biology, biotechnology
- 4) understand the purpose of transcription is to make RNA copies of individual genes that the cell can use in the biochemistry to synthesize proteins, which are used for millions of cellular functions and carrying out a Add on course research in their future.

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

*Karthee*

COORDINATOR

Dr. G Venkata Karthik Kumar Reddy

*Srivastava*

HOD

Dr Noopur Srivastava

*P. Padma*

PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON CELL FREE TRANSCRIPTION AND TRANSLATION

(Course Code: CFTXTL 2022-23)

### Course completion Report

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted a course on Cell free transcription and translation (Course Code: CFTXTL 2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the the capabilities of the current cell-free platforms for executing DNA programs in vitro and to understand the recent advances in programming using cell-free expression, a multidisciplinary playground that has enabled a myriad of novel applications in synthetic biology, biotechnology.

The course was started with an inaugural function by welcoming the Principal Dr. Padmaa M Paarakh and Dr. Noopur Srivatsava, HOD , Department of Pharmacology . The function was conducted at Room no-507 and all the participants were introduced by Dr. G Venkata Karthik Kumar Reddy , Course Coordinator. About 14 students attended the meeting. 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 DR. G Venkata Karthik Kumar Reddy.

A 30 hours course had been conducted after the college hours on Friday and Saturday. The 14 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. After the completion of each module the tests were conducted through offline in class room. The final results of the tests conducted for module I, II, III, and overall are depicted in the graph below with the percent of students and the grade scored in the tests conducted during the course. Approximately 53.33% students scored grade A (marks percentage-95-100%) in all the tests followed 30 % who scored grade B (marks percentage-90-94%) and 10% scored grade C (marks percentage-85-90 %) and 6.66% scored grade D (marks percentage-80-94 %). The performance of the students in the tests were found to be excellent. About ninety 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.



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The valedictory function has been conducted on 12/05/2023 in the class room and the course completion certificates are distributed to 14 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 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.

*Karthik*

COORDINATOR

Dr. G Venkata Karthik Kumar Reddy

*Srivastava*  
HOD

Dr Noopur Srivastava

*P. Padma*

PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON OSTEOPHARMACOLOGY

(Course Code: OSP 2022-23)

### Notice

Date: 26-07-2023

To

Notice Board

To be read in the classrooms

Course Coordinators -Mrs. Joyce & Dr. Karthik

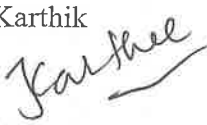
To be filed.

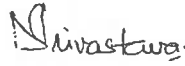
The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore introduces **30 hours** course on OSTEOPHARMACOLOGY for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm, Pharm D and Pharm. D (Post baccalaureate) students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of this course is **30 hours**. The classes for the course will start from 4<sup>th</sup> Aug 2023 and will be conducted after the college hours on Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B. Pharm, Pharm D and Pharm. D (Post baccalaureate) students. Interested students can enroll with, Dr. G. Venkata Karthik, Mrs. Joyce course coordinators on or before 31<sup>st</sup> July 2023

  
Course Coordinators

Mrs Joyce

Dr. Venkata Karthik



  
HOD

Dr Noopur Srivastava

  
PRINCIPAL

Dr Padmaa M Paarakh



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

### Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr. Noopur S Department of Pharmacology , TOCP, Bangalore.
Program Coordinator	Dr. G. Venkata Karthik and Mrs. Joyce Department of Pharmacology TOCP, Bangalore.

### For Further Information Contact

**Mrs. Joyce**  
Assistant Professor  
Department of Pharmacology ,  
TOCP, Bangalore  
Email. sjoyce2k@gmail.com

### THE OXFORD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCOP) was established in 1992. TOCOP 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 and NAAC. TOCP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc.

### ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e. M.Pharm and Pharm. D (Post-Baccalaureate)

# COURSE ON OSTEOPHARMACOLOGY



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: 31/7/2023**

**Date of commencement: 04/08/2023**

**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	Mrs Joyce 8884364650 Dr. G Venkata Karthik 8220611134

### STRUCTURE

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

### COURSE DESCRIPTION

The Department of Pharmacology, TOCP, Bangalore- 560068 introduces a Thirty hours course on **Osteopharmacology** (Course Code: OSP 2022-23 ). This course offers the basic knowledge about osteoscience

### OBJECTIVES OF

#### COURSE

- Understand various types of Osteocells and its morphology
- Appraise the importance of advancement in diagnosis of Osteodiseases

#### FINAL ASSESSMENT

Final exams will be conducted at the end of the syllabus

#### DURATION

**Thirty hours**

### COURSE OUTCOME

- To understand the methods and drugs used in treating bone disease
- The students will gain deep knowledge about the receptors and regulators which involved in bone formation ,
- Based on receptor structure students will able to target the site for drug designing .

### REGISTRATION PROCESS

- Contact your course coordinators and register.



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## COURSE ON OSTEOPHARMACOLOGY

(Course Code: OSP 2022-23)

### List of Students

S.No	Student Name	Signature
1	Kiran P	Kiran P
2	Monisha K.C	Monisha K.C
3	Monisha S	Monisha S
4	Nithin kumar C	Nithin - C
5	Purushottam M	Purushottam M
6	Yakshita M	Yakshita M
7	Shivani	Shivani
8	Athmaja Shetty	Athmaja Shetty
9	Krishnagiri Krishnababu	Krishnagiri Krishnababu
10	Rakesh Babu SN	Rakesh Babu SN
11	Yogaraj R	Yogaraj R
12	Yuktha HJ	Yuktha HJ
13	Christina James	Christina James
14	Bhuvaneshwari	Bhuvaneshwari

### COURSE COORDINATORS

Mrs Joyce

Dr. G. Venkata Karthik

Dr. Noopur Srivastava

HOD

Dr Noopur Srivastava

Dr. Padma M Paarakh

PRINCIPAL

Dr Padmaa M Paarakh



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### COURSE ON OSTEOPHARMACOLOGY

(Course Code: OSP 2022-23)

#### Syllabus

MODULES	TOPICS
MODULE-I	Introduction
	General characters of bone tissue
	Diseases of bone
	Different types of bone diseases
	General pathogenesis of diseases
	Pathogenesis of Osteoporosis
	Pathogenesis of paget's diseases and Bone infection
	Pathogenesis of osteonecrosis
	Pathogenesis of bone tumors and osteoarthritis
	Pathogenesis of scoliosis
	Pathogenesis of low bone density and gout
	Risk factors of osteoporosis
	Non-pharmacological treatment
	Treatment for bone diseases
Drugs used to treat for osteoporosis	
MODULE-II	Pharmacological action of calcium and vitamin D on bone diseases
	Pharmacological action of bisphosphonates
	Pharmacological action of denosumab
	Pharmacological action of estrogen replacement and selective estrogen Receptor modulators.
	Pharmacological action of calcitonin
	Pharmacological action of teriparatide
	Pharmacological action of strontium Ranelate
	Pharmacological action of interleukin (IL)-1 inhibitors
	Pharmacological action of tumor necrosis factors-alpha inhibitors
	Pharmacological action of DMARD's
Pharmacological action of cathepsin-k inhibitors	
Pharmacological action of MMP/ ADAMTS inhibitors	

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Pharmacological action of growth factors

Pharmacological action of metformin

New trends in pharmacological treatment.

Modern therapy for bone diseases.

COORDINATOR

Mrs. Joyce *Jy*

Dr. G Venkata Karthik Kumar Reddy

*Karthik*

*Srivastava*

HOD

Dr Noopur Srivastava

*P. Padma*

PRINCIPAL

Dr Padmaa M. Paarakh



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**COURSE ON OSTEOPHARMACOLOGY**

**(Course Code: OSP 2022-23)**

**SESSION PLAN**

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	4/8/2023	Saturday	1:30-2:30	Inauguration and Module-1	Dr. Padmaa M Paarakh Mrs. Joyce
2	4/8/2023	Saturday	4:30-5:30	Module-1	Mrs. Joyce
3	11/8/2023	Friday	4:30-5:30	Module-1	Mrs. Joyce
4	12/8/2023	Saturday	1:30-2:30	Module-1	Mrs. Joyce
5	18/8/2023	Friday	4.30-5.30	Module-1	Mrs. Joyce
6	19/8/2023	Saturday	1:30-2:30	Module-1	Mrs. Joyce
7	25/8/2023	Friday	4.30-5.30	Module-1	Mrs. Joyce
8	26/8/2023	Saturday	1:30-2:30	Module-1	Mrs. Joyce
9	1/9/2023	Friday	4:30-5:30	Module-1	Mrs. Joyce
10	2/9/2023	Saturday	1:30-2:30	Module-1	Mrs. Joyce
11	8/9/2023	Friday	4:30-5:30	Module-1	Mrs. Joyce
12	15/9/2023	Friday	4:30-5:30	Module-1	Mrs. Joyce
13	16/9/2023	Saturday	1:30-2:30	Module-1	Dr. Karthik
14	22/9/2023	Friday	4:30-5:30	Module-1	Dr. Karthik
15	23/9/2023	Saturday	1:30-2:30	Module-1	Dr. Karthik
16	30/9/2023	Saturday	1.30-2.30	Module-2	Dr. Karthik
17	6/10/2023	Friday	4:30-5:30	Module-2	Dr. Karthik
18	7/10/2023	Saturday	1:30-2:30	Module-2	Dr. Karthik
19	13/10/2023	Friday	4:30-5:30	Module-2	Dr. Karthik
20	14/10/2023	Saturday	1:30-2:30	Module-2	Dr. Karthik
21	20/10/2023	Friday	4:30-5:30	Module-2	Dr. Karthik
22	21/10/2023	Saturday	1:30-2:30	Module-2	Dr. Karthik
23	27/10/2023	Saturday	1:30-2:30	Module-2	Dr. Karthik
24	28/10/2023	Saturday	1:30-2:30	Module-2	Dr. Karthik
25	3/11/2023	Friday	4:30-5:30	Module-2	Mrs. Joyce
26	4/11/2023	Friday	4:30-5:30	Module-2	Mrs. Joyce
27	10/11/2023	Saturday	1:30-2:30	Module-2	Mrs. Joyce



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28	11/11/2023	Friday	4:30-5:30	Module-2	Mrs. Joyce
29	17/11/2023	Saturday	1:30-2:30	Module-2	Mrs. Joyce
30	24/11/2023	Friday	4:30-5:30	Module-2	Mrs. Joyce
31	24/11/2023	Saturday	1:30-2:30	Valedictory	Dr. Noopur Srivastava

## COURSE COORDINATORS

Mrs Joyce

Dr. G.Venkata Karthik

*Srivastava*

HOD

Dr Noopur Srivastava

*P. Padma*

PRINCIPAL

Dr Padmaa M Paarakh



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**COURSE ON OSTEOPHARMACOLOGY**  
(Course Code: OSP 2022-23)

**Outcome Report**

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore- 560068, completed the course on Osteopharmacology (Course Code: OSP 2022-23). 14 students were registered and the course was conducted for 30 hours. This course trained registrants to have a basic knowledge about the bone cells, bone diseases, diagnosis and treatment. The course focused on enhancing the knowledge regarding the basic concepts of mechanisms involved in treating the bone disease.

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

- To understand the methods and drugs used in treating bone disease
- To gain deep knowledge about the receptors and regulators which involved in bone formation,
- Based on receptor structure students will able to target the site for drug designing.

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

**Course Coordinators**

Mrs Joyce

Dr. G Venkata Karthik

*N. Srivastava*  
HOD

Dr Noopur Srivastava

*P. Padma*  
PRINCIPAL

Dr Padmaa M Paarakh





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## COURSE ON OSTEOPHARMACOLOGY

(Course Code: OSP 2022-23)

### Completion Report

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted a course on Osteopharmacology (Course Code: OSP 2022-23) for the academic year 2022-23. This course was intended to impart knowledge about the basics concept of various bone cells morphology, functions, balancing mechanisms and various drugs used in bone diseases like osteoporosis.

The course was started with an inaugural function started by welcoming the Principal Dr Padmaa M. Paarakh. The function was conducted in Room no 501, and all the participants were welcomed by Mrs. Joyce, Course Coordinator. Total 14 students were present for the session. Our principal 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 Dr Padma M Paarakh, Principal, The oxford College of pharmacy.

A total 30 hours course had been conducted after the college hours on Friday and Saturday. Total 14 students were enrolled for this course. 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 students were evaluated with a set of questionnaires. The results of the tests conducted for all the four modules. Approximately 61.5% students scored grade A in all the tests followed by 32.5 % who scored grade B and 5.25 % scored grade C and 0% scored grade D. The performance of the students in the tests were found to be excellent. About fifty percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and exploring themselves through the interactive sessions conducted.

The valedictory function has been conducted 24/11/23 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 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.



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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 congratulate the Department of Pharmacology, and the course coordinator Mrs. Joyce and Dr. Venkata Karthik for successful completion of the course.

## Course Coordinators

Mrs Joyce

Dr. Venkata Karthik

Shrivastava  
HOD

Dr Noopur Srivastava

P. Padma  
PRINCIPAL

Dr Padmaa M Paarakh



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## COURSE ON PHARMACOGENOMICS AND GENOMICS DATA ANALYSIS

(Course Code: PGGDA 2022-23)

### Notice

Date: 28-06-2023

To

#### Notice Board

To be read in the class rooms

Course Coordinators -Dr. Muthukumar A. & Mrs Keserla Bhavani

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on **Pharmacogenomics and Genomics Data Analysis** for the academic year 2022-23, for the benefit of M.Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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 1<sup>st</sup> Jul 2023 and will be conducted after the college hours on Wednesday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Dr. Muthukumar A & Mrs Keserla Bhavani, course coordinators on or before 30<sup>th</sup> Jun 2023.

Course Coordinators

Dr. Muthukumar A

Mrs Keserla Bhavani

*N. Srivastava*  
HOD

Dr Noopur Srivastava

*P. Padma*  
PRINCIPAL

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

## THE OXFORD COLLEGE OF PHARMACY

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## Course On "PHARMACOGENOMICS AND GENOMICS DATA ANALYSIS"



## Organized by **THE OXFORD COLLEGE OF PHARMACY**

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

## For Further Information Contact

Dr Muthukumar A,  
Department of Pharmacy,  
TOCP, Bangalore

Email:  
drmkpharmacologist@gmail.com

## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e.,  
M. Pharm, B. Pharm, Pharm. D and  
Pharm. D (Post-Baccalaureate)

Duration: **30 hours**

Late date for Registration:-30/06/2023

Date of commencement:01/07/2023

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 registration	Mrs Kserla Bhavani 8073108424 Dr Muthukumar A 9976696000

## STRUCTURE

- Course will be conducted for total **30 hours** after the college hours.
- Course will be conducted through Offline mode.
- Every Wednesday and Saturday. (offline).

## COURSE DESCRIPTION

The Department of Pharmacology, TOCP, Bangalore introduces a thirty hours course on Pharmacogenomics and Genomics Data Analysis (Course Code: PGGDA 2022-23). This course trains registrants to have a key information throughout the basics principles and techniques related to Pharmacogenomics and Genomics.

## OBJECTIVES OF PROGRAM

- Pharmacogenomics and genomics data analysis aim to customize treatment plans based on an individual's genetic information.
- The goal is to optimize drug therapy, reduce adverse drug reactions, enhance drug efficacy, and improve patient outcomes.
- In addition, genomics data analysis focuses on identifying potential targets for drug development to enable personalized medicine.

## OUTCOME

- The course outcome of Pharmacogenomics and Genomics data analysis is to provide students with the knowledge to understand how genetic information is used to create personalized medicine.
- Students will learn about the fundamental principles of Pharmacogenomics, including Genome-wide association studies and the identification of pharmacogenomic biomarkers.

## FINALASSESSMENT

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

## REGISTRATION PROCESS

- Contact your course coordinators and register.

## DURATION

- Thirty hours.



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## COURSE ON PHARMACOGENOMICS AND GENOMICS DATA ANALYSIS

(Course Code: PGGDA 2022-23)

### List of students

S.N	Name of the student	Signature
1	Deepak S	Deepak
2	Dhushyanth G	Dhushyanth
3	Dinesh R	Dinesh
4	Faseeha Almas	Faseeha Almas
5	Ganesh	Ganesh
6	Gowthami G N	Gowthami
7	Harini V	Harini V
8	Harish Kumar K	Harish Kumar
9	Janhavi Arya	Janhavi
10	Kailash Chandra C	Kailash Chandra
11	Karthik M	Karthik
12	Kaviarasu S	Kaviarasu S
13	Kavya N	KAVYA.N.
14	Kavya Shree S	Kavya Shree S
15	Kavya M Pari	Kavya
16	Kavya M	Kavya
17	Kowsalya V	K.V.
18	Namitha M	Namitha
19	Nandisha V	Nandisha V
20	Pallavi A	Pallavi

Course Co-coordinators

Dr.A.Muthukumar  
Kerla Bhavani

A. Chy  
K. Bhavani

Dr. Noopur Srivastava

Noopur  
HOD

P. Padma  
Principal

Dr. Padmaa M Parakh Mrs.



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## COURSE ON PHARMACOGENOMIC AND GENOMIC DATA ANALYSIS

(Course Code: PGGDA 2022-23)

### SYLLABUS

MODULES	TOPICS
<b>Module I</b>	Introduction of pharmacogenomics
	Introduction of genomics
	Overview of pharmacogenomics
	Overview of genomics
	Study Designs in Pharmacogenomics
	Study designs in disease genetics and Pharmacogenomics
	Linkage disequilibrium
	HapMap
	1000 Genomes & ENCODE
	Controlling for population structure in genetics
	Genetic association analysis
	Introduction and overview of GWAS
Power calculation for GWAS	
<b>Module II</b>	Brief PLINK installation and tutorial
	Computer hands-on training: PLINK
	Meta-analysis and rare variant analysis
	GWAS Meta-analysis QC
	Next-generation sequencing
	Application of Transcriptome and RNAseq in PGx
	Sequencing applications in Disease genetics and PGx
<b>Module III</b>	Introduction to Metabolomics
	Metabolomics analysis using MetaboAnalyst
	Epigenetics and pharmacogenomics
	DNA methylation analysis
	GWAS follow-up analysis
	Applications of metabolomics
	Applications of epigenetics, methylation
	microRNA in PGx
	Proteomics
Applications of Proteomics	

CO-ORDINATORS

Mrs. Keserla Bhavani

Dr. A. Muthukumar

*N. Srivastava*  
HOD

Dr. Noopur Srivastava

*P. Padmaa*  
PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON PHARMACOGENOMICS AND GENOMICS DATA ANALYSIS

(Course Code: PGGDA 2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	1-7-2023	Saturday	2:00-3:00	Inauguration and Module-1	Dr. Padmaa M. Paarakh Dr. Noopur Srivatava
2	5-7-2023	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavani
3	8-7-2023	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavani
4	12-7-2023	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavani
5	15-7-2023	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavani
6	19-7-2023	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavani
7	22-7-2023	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavani
8	26-7-2023	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavani
9	29-7-2023	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavani
10	5-8-2023	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavani
11	9-8-2023	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavani
12	12-8-2023	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavani
13	16-8-2023	Saturday	2:00-3:00	Module-1	Mrs. Keserla Bhavani
14	19-8-2023	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavani
15	23-8-2023	Wednesday	4:00-5:00	Module-1	Mrs. Keserla Bhavani
16	26-8-2023	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
17	30-8-2023	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
18	2-9-2023	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
19	6-9-2023	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
20	9-9-2023	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
21	13-9-2023	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
22	16-9-2023	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
23	20-9-2023	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
24	23-9-2023	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
25	27-9-2023	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
26	30-9-2023	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
27	4-10-2023	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
28	7-10-2023	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
29	11-10-2023	Wednesday	4:00-5:00	Module-2	Dr. A. Muthukumar
30	14-10-2023	Saturday	2:00-3:00	Module-2	Dr. A. Muthukumar
31	18-10-2023	Wednesday	4:00-5:00	Valedictory	Dr. Noopur Srivatava

*A. Ch. M.*  
Course Coordinators

*N. Srivastava.*  
HOD

*P. Padmaa*  
PRINCIPAL

Dr Muthukumar A

Dr Noopur Srivastava

Dr Padmaa M Paarakh

Mrs Keserla Bhavani

*K. Bhavani*



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## COURSE ON PHARMACOGENOMICS AND GENOMICS DATA ANALYSIS

(Course Code: PGGDA 2022-23)

### Outcome Report

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore- 560068 had completed course on Pharmacogenomics and Genomics Data Analysis (Course Code: PGGDA 2022-23). 20 students were registered and the course was conducted for 30 hours. This course trains registrants to have a key information throughout the basics principles and techniques related to Pharmacogenomics and Genomics.

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

- The course outcome of Pharmacogenomics and Genomics data analysis is to provide students with the knowledge to understand how genetic information is used to create personalized medicine.
- Students will learn about the fundamental principles of Pharmacogenomics, including Genome-wide association studies and the identification pharmacogenomic biomarkers.

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

### Course Coordinators

Dr Muthukumar A

Mrs Keserla Bhavani

*N. Srivastava*  
HOD

Dr Noopur Srivastava

*P. Padma*  
PRINCIPAL

Dr Padmaa M Parakh



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## COURSE ON PHARMACOGENOMICS AND GENOMICS DATA ANALYSIS

(Course Code: PGGDA 2022-23)

### Completion Report

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted a course on Pharmacogenomics and Genomics Data Analysis (Course Code: PGGDA 2022-23) for the academic year 2022-23. The course was intended to impart knowledge about the basics principles and techniques related to Pharmacogenomics and Genomics.

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 Dr Muthukumar A, Mrs Keserla Bhavani. Total 20 students were present. Our principal had emphasized on the importance of doing such courses for the betterment of their future. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs Keserla Bhavani.

A total 30 hours course had been conducted after the college hours on Wednesday and 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 38.88 % students scored grade A (marks percentage-95-100%) in all the tests followed by 37.77 % 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 were found good. 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 18/10/2023 and the course participation certificate were distributed to all 20 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 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, TOCOP, Bangalore had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmaceutical Chemistry and the course coordinators Dr Muthukumar A and Mrs Keserla Bhavani for successful completion of the course.

Course Coordinators

Dr Muthukumar A

Mrs Keserla Bhavani

*Dr. Noopur Srivastava*

HOD

Dr Noopur Srivastava

*Dr. Padmaa M. Paarakh*

PRINCIPAL

Dr Padmaa M Paarakh



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## COURSE ON SPECTROSCOPIC METHODS FOR THE DETECTION OF MICROBIAL PATHOGENS AND DIAGNOSTICS OF INFECTIOUS DISEASES (Course Code: SDM 2022-23)

### NOTICE

Date: 02-08-2022

To

Notice Board

To be read in the class rooms

Course Coordinator-Mrs. Nagalakshmi R.

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on Spectroscopic Methods for the Detection of Microbial Pathogens and Diagnostics of Infectious Diseases for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm, Pharm. D and Pharm. D (Post Baccalaureate) 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> Aug 2022 and will be conducted after the college hours on Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B. Pharm, Pharm. D and Pharm. D (Post Baccalaureate) students. Interested students can enroll with Mrs. Nagalakshmi R, course coordinator on or before 04<sup>th</sup> Aug 2022.

COURSE COORDINATOR

Mrs. R. Nagalakshmi

HOD

Dr. Noopur Srivastava

PRINCIPAL

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	Mrs. Nagalakshmi R Assistant Professor, Dept of Pharmacology TOCP, Bangalore.

## THE OXFOD COLLEGE OF PHARMACY

The Oxford College of Pharmacy (TOCOP) was established in 1992. TOCOP 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 and NAAC. TOCOP has excellent infrastructure in terms of sophisticated instruments, laboratories, lecture halls, etc

## For Further Information Contact

Mrs. Nagalakshmi R  
Assistant Professor, Department of  
Pharmacology  
TOCP, Bangalore.  
Email:nagalakshmiraghuramareddy07  
@gmail.com



## Course On “SPECTROSCOPIC METHODS FOR THE DETECTION OF MICROBIAL PATHOGENS AND DIAGNOSTICS OF INFECTIOUS DISEASES”

Organized by  
**THE OXFORD COLLEGE OF  
PHARMACY**

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

**Duration: 30 hours**

**Last date for registration: 04/08/2022**

**Date of commencement: 05/08/2022**

**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 registration	Mrs. Nagalakshmi R 8123482883

### STRUCTURE

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

### COURSE DESCRIPTION

The Department of Pharmacology, TOCOP, Bangalore- 560068 introduces a thirty hours course on **Spectroscopic Methods for the Detection of Microbial Pathogens and Diagnostics of Infectious Diseases (Course Code: SDM 2022-23)**. This course offers the basic knowledge about the knowledge of alternatives models for diagnosis of infectious disease, conduct and interpretations of results.

### OBJECTIVES OF PROGRAM

- This course will help to understand various spectroscopic methods for detection of microbial pathogen.
- Contemporary researches have indicated successful bio typing.
- This value-added course will help the students in understanding some major diagnosis of infectious disease.
- It will help in understand importance of rapid detection and upgraded tools for early diagnosis to prevent the loss of lives.

### FINAL ASSESSMENT

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

### DURATION

**Thirty hours**

## OUTCOME

- This course will introduce students to study of detection of microbial pathogen.
- Students will learn about some widely used models for diagnosis of infectious disease.
- Candidates will be able to understand upgraded tools for early diagnosis to prevent the loss of lives.

### REGISTRATION PROCESS

- ☐ Contact your course coordinators and register.



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## COURSE ON SPECTROSCOPIC METHODS FOR THE DETECTION OF MICROBIAL PATHOGENS AND DIAGNOSTICS OF INFECTIOUS DISEASES

(Course Code: SDM 2022-23)

### List of students

S.No	Student Name	Signature
1	KIRAN.P	
2	MONISHA.K.C	
3	MONISHA.S	
4	NITHIN KUMAR.C	
5	PURUSHOTHAM.M	
6	SHIWANI SINGH	
7	YAKSHITHA.V	
8	YAKSHITHA.M	
9	YUKTHA	
10	ATMAJA SHETTY	
11	KRISHNA BABU	
12	YOGARAJ	
13	RAKESH	

COURSE COORDINATOR

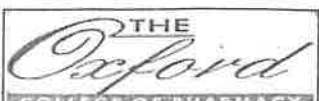
Mrs. R. Nagalakshmi

HOD

Dr. Noopur Srivastava

PRINCIPAL

Dr. Padmaa M Paarakh



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**COURSE ON SPECTROSCOPIC METHODS FOR THE DETECTION OF  
MICROBIAL PATHOGENS AND DIAGNOSTICS OF INFECTIOUS DISEASES  
(Course Code: SDM-2022-2023)  
SYLLABUS**

S. No	Module	Topic
I	Module I	<b>Introduction to infectious diseases</b>
		<b>Recent trend in technology of diagnosis of microbial pathogens</b>
		Conventional Methods of diagnosis of microbial pathogen.
		Molecular Methods of diagnosis of microbial pathogen
		<b>Introduction to Spectroscopic Methods for the Identification</b>
		<b>General Characterization of Microbial Pathogens</b>
		Wavelength-Based Microbial Growth
		Spectroscopic Analysis of Microbial Growth
		<b>Introduction to Spectroscopic Methods for the Identification by Surface-Enhanced Raman Spectroscopy (SERS)</b>
		<b>General Characterization of Microbial Pathogen by SERS</b>
II	Module II	<b>Introduction to Spectroscopic Methods for the Identification by Fourier Transform Infrared Spectroscopy (FTIR)</b>
		<b>General Characterization of Microbial Pathogen by FTIR</b>
		<b>Introduction to Spectroscopic Methods for the Identification by Electrochemical Impedance Spectroscopy (EIS)</b>
		<b>General Characterization of Microbial Pathogen by EIS</b>
		<b>Introduction to Spectroscopic Methods for the Identification by MALDI-TOF/TOF Tandem Mass Spectrometry</b>
		<b>General Characterization of Microbial Pathogen by MALDI-TOF/TOF</b>
		<b>Introduction to Spectroscopic Methods for the Identification by Near-Infrared Spectroscopy (NIRS) and Chemometrics</b>
		<b>General Characterization of Microbial Pathogen by NIRS</b>
		<b>Applications of Spectroscopy in Diagnostics</b>
		Epidemiology
III	Module III	Diagnosis of Clinical Infectious
		Diagnosis of Vector-Borne Diseases
		Food borne Pathogen Detection
		Waterborne Pathogen Detection
		Antibiotic Resistance
		Virulence Factors
		SARS-CoV-2 Diagnosis
		Microbial Endotoxins detection
		Microbial Exotoxins detection
		Biomarker Detection

CO-ORDINATOR

Mrs. R. Nagalakshmi

HOD

Dr. Noopur Srivastava

PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON SPECTROSCOPIC METHODS FOR THE DETECTION OF MICROBIAL PATHOGENS AND DIAGNOSTICS OF INFECTIOUS DISEASES

(Course Code: SDM 2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	5/8/2022	Friday	04.30-5.30	Inauguration and Module I	Mrs Nagalakshmi R
2	6/8/2022	Saturday	02.00-03.00	Module I	Mrs Nagalakshmi R
3.	12/8/200	Friday	04.30-5.30	Module I	Mrs Nagalakshmi R
4.	13/8/2022	Saturday	02.00-03.00	Module I	Mrs Nagalakshmi R
5.	19/8/2022	Friday	04.30-5.30	Module I	Mrs Nagalakshmi R
6.	20/8/2022	Saturday	02.00-03.00	Module I	Mrs Nagalakshmi R
7.	26/8/2022	Friday	04.30-5.30	Module I	Mrs Nagalakshmi R
8.	27/8/2022	Saturday	02.00-03.00	Module I	Mrs Nagalakshmi R
9.	2/9/2022	Friday	04.30-5.30	Module I	Mrs Nagalakshmi R
10.	3/9/2022	Saturday	02.00-03.00	Module I	Mrs Nagalakshmi R
11.	9/9/2022	Friday	04.30-5.30	Module II	Mrs Nagalakshmi R.
12.	10/9/2022	Saturday	02.00-03.00	Module II	Mrs Nagalakshmi R
13.	16/9/2022	Friday	04.30-5.30	Module II	Mrs Nagalakshmi R
14.	17/9/2022	Saturday	02.00-03.00	Module II	Mrs Nagalakshmi R
15.	23/9/2022	Friday	04.30-5.30	Module II	Mrs Nagalakshmi R
16.	24/9/2022	Saturday	02.00-03.00	Module II	Mrs Nagalakshmi R
17.	30/9/2022	Friday	04.30-5.30	Module II	Mrs Nagalakshmi R
18.	1/10/2022	Saturday	02.00-03.00	Module II	Mrs Nagalakshmi R
19.	7/10/2022	Friday	04.30-5.30	Module III	Mrs Nagalakshmi R
20.	8/10/2022	Saturday	02.00-03.00	Module III	Mrs Nagalakshmi R



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21.	14/10/2022	Friday	04.30-5.30	Module III	Mrs Nagalakshmi R
22.	15/10/2022	Saturday	02.00-03.00	Module III	Mrs Nagalakshmi R
23.	21/10/2022	Friday	04.30-5.30	Module III	Mrs Nagalakshmi R
24.	22/10/2022	Saturday	02.00-03.00	Module III	Mrs Nagalakshmi R
25.	28/10/2022	Friday	04.30-5.30	Module III	Mrs Nagalakshmi R
26.	29/10/2022	Saturday	02.00-03.00	Module III	Mrs Nagalakshmi R
27.	4/11/2022	Friday	04.30-5.30	Module III	Mrs Nagalakshmi R
28.	5/11/2022	Saturday	02.00-03.00	Module III	Mrs Nagalakshmi R
29.	11/11/2022	Friday	04.30-5.30	Module III	Mrs Nagalakshmi R
30.	12/11/2022	Saturday	02.00-03.00	Valedictory	Dr. Noopur Srivatsava

**COURSE COORDINATOR**

Mrs. R. Nagalakshmi

**HOD**

Dr. Noopur Srivastava

**PRINCIPAL**

Dr. Padmaa M. Paarakh



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## COURSE ON SPECTROSCOPIC METHODS FOR THE DETECTION OF MICROBIAL PATHOGENS AND DIAGNOSTICS OF INFECTIOUS DISEASES

(Course Code: SDM 2022-23)

### OUTCOME REPORT

The Department of Pharmacology, The Oxford College of Pharmacy, Bangalore- 560068, completed a Course on SPECTROSCOPIC METHODS FOR THE DETECTION OF MICROBIAL PATHOGENS AND DIAGNOSTICS OF INFECTIOUS DISEASES (Course Code: SDM 2022-23). 13 students were registered and the course was conducted for 30 hours. This course is to make students understand the spectroscopic methods for the detection of microbial pathogens and diagnostics of infectious disease. The course focused on enhancing the knowledge about the microbial pathogen and their diagnosis procedure.

#### Outcome:

At the end of this course students were able to

- Understand detection of microbial pathogen.
- Students will learn about some widely used models for diagnosis of infectious disease.
- Candidates will be able to understand upgraded tools for early diagnosis to prevent the loss of lives.

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

COURSE COORDINATOR

Mrs. R. Nagalakshmi

Shivastava  
HOD

Dr. Noopur Srivastava

P. Padma  
PRINCIPAL

Dr. Padmaa M. Paarakh



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### COURSE ON SPECTROSCOPIC METHODS FOR THE DETECTION OF MICROBIAL PATHOGENS AND DIAGNOSTICS OF INFECTIOUS DISEASES

(Course Code: SDM 2022-23)

### COMPLETION REPORT

The Department of Pharmacology, The Oxford college of Pharmacy, Bangalore, conducted Course on Spectroscopic Methods for the Detection of Microbial Pathogens and Diagnostics of Infectious Diseases (Course Code: SDM 2022-23) for the academic year 2022-23. This course was intended to help the students in understanding the various theories and concepts of detection of infectious disease and its identification by microbial typing.

The course was started with an inaugural function started by welcoming the Principal, Dr Padmaa M. Paarakh. The function was conducted in Room no 507, and all the participants were introduced by course coordinator Mrs. Nagalakshmi R. Total 13 students were present. Our principal emphasized on the importance of doing such courses for the betterment of their future. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs. Nagalakshmi R.

A total 30 hours course had been conducted after the college hours on Friday and Saturday. Total 13 students were enrolled for the course. 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 results of module I, II, III and overall was analysed. Approximately 76.9 % students scored grade A (marks percentage-95-100%) in all the tests followed by 23 % who scored grade B (marks percentage-90-94%) and 0 % 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 excellent. About ninty five 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 12/11/2022 and the course participation certificate were distributed to all 13 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 for carrying out such courses. On behalf of Department she promised to carry out such courses in future also.



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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 Pharmacology and the course coordinators Mrs. Nagalakshmi R for successful completion of the course.

**COURSE COORDINATOR**

Mrs. R. Nagalakshmi

**HOD**

Dr. Noopur Srivastava

**PRINCIPAL**

Dr. Padmaa M. Paarakh



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## COURSE ON

## CLINICAL DATA MANAGEMENT (COURSE CODE: CDM 2022-23)

## NOTICE

Date: 26-12-2022

To

Notice Board

To be read in the classrooms

Course Coordinator- Dr Sripriya C

To be filed

The Department of Pharmacy practice, The Oxford College of Pharmacy, Bangalore introduces 30 hours Course on Clinical Data Management for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm and Pharm. D, Pharm. D (PB). 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 6th Jan 2023 and will be conducted after the college hours on Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B. Pharm and Pharm. D, Pharm. D (PB) students. Interested students can enroll with Dr Sripriya C course coordinator on or before 4<sup>th</sup> Jan 2023.

CO-ORDINATOR

DR. SRIPRIYA C

HOD

DR. PARTHASARATHY G

PRINCIPAL

DR. PADMAA M PAARAKH



## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD	Dr. Parthasarathy G HOD, Department of Pharmacy Practice TOCP, Bangalore.
Course	Dr Sripriya C
Members	9741334131

## 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, Pharm. D, Pharm. D (Post-Baccalaureate) and M. Pharm. Students from second, third, fourth, fifth Pharm. D and first, second, third Pharm. D (Post baccalaureate) and from fifth, sixth, seventh, eighth semesters B. Pharm.

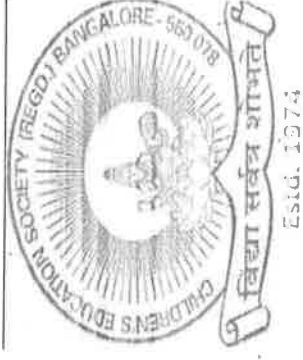
## For Further Information Contact

### **Dr Sripriya C**

Email: sripriyachittibabu@gmail.com  
Course Coordinator  
Department of Pharmacy  
Practice TOCP, Bengaluru

## Course On

# “CLINICAL DATA MANAGEMENT ”



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: 04<sup>th</sup> Jan  
2023

Date of commencement: 06<sup>th</sup> Jan 2023

Final Evaluation : after completion of  
30 hours

## REGISTRATION

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

## OBJECTIVES OF THE PROGRAM

- With the rapid advancements in medical technology and an ever-increasing focus on evidence-based practice, the need for skilled Clinical Data Management professionals in this area has never been greater.
- One of the key reasons to study clinical data management is the role it plays in ensuring the accuracy and integrity of clinical trial data.
- Furthermore, studying Clinical Data Management provides a strong foundation for a career in the healthcare industry.
- Whether working in pharmaceutical companies, research institutions, or regulatory agencies, professionals with expertise in this field are in high demand.

## OUTCOME

- Able to collect, validate and analyze the clinical data.
- Able to design and develop data collection instruments such as paper CRF, electronic CRF, clinical database etc.
- Able to design and develop tools for validation such as edit checks, user acceptance testing etc.
- Able to design and develop tools for analyzing data such as DDR/DDDS etc

## STRUCTURE

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

## COURSE DESCRIPTION

The Department of Pharmacy Practice, TOCP, Bangalore- 560068 introduces a course on clinical data management (CDM 2022-23). This course provides a complete knowledge about overview of clinical data management, activities performed during clinical trials and analysis and reporting overview.

## REGISTRATION PROCESS

Students can contact Course Coordinator - Dr Sripriya C and register.

## FINAL ASSESSMENT

Final evaluation will be conducted at the end of the syllabus



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**COURSE ON CLINICAL DATA MANAGEMENT**

**(Course Code: CDM 2022-23)**

S.No	Student Name	Signature
1	ARINDAM DEY	
2	BABISHA R	
3	BHAVYASHREE N	
4	DHARUNBALA L	
5	FARHANA AA	
6	HARSHITHA A	
7	LIKITHA C	
8	NEETHU T P	
9	NISHANTH	
10	NIZAMUDDIN	

COURSE COORDINATOR

DR. SRIPRIYA C

HOD

DR. PARTHASARATHY G

PRINCIPAL

DR. PADMAA M PAARAKH



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## COURSE ON CLINICAL DATA MANAGEMENT (COURSE CODE: CDM2022-23)

MODULES	TOPICS
MODULE - I	Introduction of Clinical Data Management
	Data And Databases
	Data Entry
	Transcribing Data
	CRF Data Tracking
	Cleaning Data
	Discrepancies Managements
	Data Management Plan
	CRF Review And source Documents
	Electronic Data Capture
	Design Consideration
	Study Setup
	Managing Laboratory Data
	Collection of Adverse Events Data
	Medical Coding
MODULE - II	Clinical data management systems
	Electronic data capture systems, Choosing vendor products
	Implementing new systems
	System validation, Test procedures, Change control, Coding dictionaries,
	Migrating and archiving Legacy Data
	Clinical Data Management Process-Data management Plan,
	CRF design considerations, Database design considerations
	Study setup, Entering Data, Tracking CRF pages, cleaning data,
	Managing Lab Data
	Identifying and managing the discrepancies, Collecting Adverse Event Data
	Coding Reported terms
	Creating report and Transferring data, Closing study
	SAS in Clinical data analysis
	Importing data from Excel to SAS
	Statistical analysis of SAS datasets
Standard operating procedures and guidelines for data management.	
Introduction of Clinical Data Management	

COURSE COORDINATOR

DR. JENISHA K

HOD

DR. PARTHASARATHY G

PRINCIPAL

DR. PADMAA M PAARAK



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## COURSE ON CLINICAL DATA MANAGEMENT (COURSE CODE: CDM2022-23)

### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	06-01-2023	Friday	4.30-5.30PM	Inaugural Module-1	Dr. Padmaa. M. Paarakh Dr. Sripriya
2	07-01-2023	Saturday	01:30-02:30PM	Module-1	Dr. Sripriya
3	13-01-2023	Friday	4.30-5.30PM	Module-1	Dr. Sripriya
4	20-01-2023	Friday	4.30-5.30PM	Module-1	Dr. Sripriya
5	21-01-2023	Saturday	01:30-02:30PM	Module-1	Dr. Sripriya
6	27-01-2023	Friday	4.30-5.30PM	Module-1	Dr. Sripriya
7	28-01-2023	Saturday	01:30-02:30PM	Module-1	Dr. Sripriya
8	03-02-2023	Friday	4.30-5.30PM	Module-1	Dr. Sripriya
9	04-02-2023	Saturday	01:30-02:30PM	Module-1	Dr. Sripriya
10	10-02-2023	Friday	4.30-5.30PM	Module-1	Dr. Sripriya
11	11-02-2023	Saturday	01:30-02:30PM	Module-1	Dr. Sripriya
12	17-02-2023	Friday	4.30-5.30PM	Module-1	Dr. Sripriya
13	24-02-2023	Friday	4.30-5.30PM	Module-1	Dr. Sripriya
14	25-02-2023	Saturday	01:30-02:30PM	Module-1	Dr. Sripriya
15	03-03-2023	Friday	4.30-5.30PM	Module-1	Dr. Sripriya
16	04-03-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
17	10-03-2023	Friday	4.30-5.30PM	Module-2	Dr. Sripriya
18	11-03-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
19	17-03-2023	Friday	4.30-5.30PM	Module-2	Dr. Sripriya
20	18-03-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
21	24-03-2023	Friday	4.30-5.30PM	Module-2	Dr. Sripriya



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22	25-03-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
23	31-03-2023	Friday	4.30-5.30PM	Module-2	Dr. Sripriya
24	01-04-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
25	08-04-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
26	15-04-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
27	28-04-2023	Friday	4.30-5.30PM	Module-2	Dr. Sripriya
28	29-04-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
29	05-05-2023	Friday	4.30-5.30PM	Module-2	Dr. Sripriya
30	06-05-2023	Saturday	01:30-02:30PM	Module-2	Dr. Sripriya
31	12-05-2023	Friday	4.30-5.30PM	Valedictory	Dr. Sripriya

CO-ORDINATOR

DR. SRIPRIYA C

HOD

DR. PARTHASARATHY G

PRINCIPAL

DR. PADMAA M PAARAKH

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## COURSE ON CLINICAL DATA MANAGEMENT

(COURSE CODE – CDM 2022-23)

### OUTCOME REPORT

The Department of Pharmacy practice, The Oxford College of Pharmacy, Bangalore- 560068, conducted a course on Clinical Data Management (Course Code: CDM 2022-23). 10 students participated in the course. This course enabled the students to get thorough knowledge about the overview of clinical data management, activities performed during the clinical trials and analysis and reporting overview. The course focuses on the various theories and concepts of data management in the field of clinical research. This course gave the basic knowledge to students who wants to build a career as clinical data manager and clinical data analyst.

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

1. To understand Collection ,validation and analysing the clinical data .
2. Design and develop data collection instruments such as paper CRF, electronic CRF, clinical database etc.
3. Design and develop tools for validation such as edit checks, user acceptance testing etc.
4. Design and develop tools for analyzing data such as DDR/DDS etc

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

CO-ORDINATOR

Dr Sripriya C

HOD

Dr Parthasarthy G

P. Padma  
PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON CLINICAL DATA MANAGEMENT

(Course Code: CDM 2022-23)

### Course Completion Report

The Department of Pharmacy Practice, The Oxford college of Pharmacy, Bangalore, conducted a course on Clinical Data Management (Course Code: CDM 2022-23) for the academic year 2022-23. 10 students were enrolled in this course. The course duration was 30 hours and Classes were conducted on Friday and Saturday.

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M Paarakh. The function was conducted at Room Number-506 and all the participants were introduced by Course Coordinator. 10 students were present. The inaugural function has been summed up with the introductory lecture of course coordinator-Dr Sripriya C

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 result for module I, II and overall were analysed. Approximately 29.48% students scored grade A (marks percentage-100%) in all the tests followed by 47.43% who scored grade B (marks percentage-90%) and 23.07% scored grade C (marks percentage-80%).

The performance of the students in the tests were found excellent. About ninety-three 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 12/05/2023 and the course participation certificate were distributed to all 10 students by the Principal Dr. Padmaa M. Paarakh and Head of the Department Dr Parthasarathy G. Dr. Parthasarathy G 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, The Oxford college of Pharmacy, Bangalore had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmacy practice and the course coordinator Dr Sripriya C for successful completion of the course..

COURSE CO-ORDINATOR

Dr. Sripriya C

HOD

Dr. Parthasarathy G

PRINCIPAL

Dr. Padmaa M Paarakh



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## COURSE ON UNDERSTANDING CLINICAL DOCUMENTS AND SOFTWARES USED IN CLINICAL SETTINGS

(COURSE CODE – UCDS 2022-23)

### NOTICE

**Date: 03-07-2023**

To

#### Notice Board

To be read in the classrooms

Course Coordinators -Dr Sripriya C, Dr Jeena susan ,

To be filed

The Oxford College of Pharmacy, Bengaluru introduces a **30 hours** Course on Understanding Clinical Documents And Softwares Used In Clinical Settings for the academic year 2022-2023, for the benefit of M Pharm ,B Pharm, Pharm D and Post Baccalaureate students. This course is offered at no cost. There is no academic credit offered for this course. The total duration of course is **30 hours** . The classes for the course will start from 15<sup>th</sup> July 2023 and will be conducted Wednesday, Friday and Saturday after the regular class hours. The eligibility criteria include students pursuing a Pharmacy degree, that is M pharm , B. Pharm, Pharm. D, and Pharm. D (Post baccalaureate) students. Interested students can enroll with Dr Sripriya C , course coordinator on or before 10<sup>th</sup> July 2023.

  
Course Co-Coordinator

**Dr Sripriya C**

  
HOD

**Dr Parthasarathy G**

  
PRINCIPAL

**Dr Padmaa M Parakh**



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## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD	Dr. Parthasarathy G HOD, Department of Pharmacy Practice TOCP, Bangalore.
Course Members	Dr Sripriya C

## For Further Information Contact

Dr SRIPRIYA C

Email: sipriyaks98@gmail.com

Course Coordinator

Department of Pharmacy

Practice TOCP, Bengaluru

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## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., B. Pharm, Pharm. D, Pharm. D (Post-Baccalaureate) and M. Pharm. Students from second, third, fourth, fifth Pharm. D and first, second, third Pharm. D (Post baccalaureate) and from fifth, sixth, seventh, eighth semesters B. Pharm.

## Course

On

“UNDERSTANDING  
CLINICAL DOCUMENTS AND  
SOFTWARE USED IN  
CLINICAL SETTING”



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: 10 July  
2023

Date of commencement: 15<sup>th</sup> July  
2023

Final Evaluation : after completion of  
30 hours



## REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact person for registration	Dr SRIPRIYA C Course Coordinator 9741334131

## STRUCTURE

- Course will be conducted for 30 hours
- Course will be conducted through Offline mode,
- Every wednesday and Thursday.

## COURSE DESCRIPTION

The Department of Pharmacy Practice, TOCP , Bangalore- 560068 introduces a course First aid and Emergency care by Pharmacist' teaches the aim of first aid and will be introduced to its basic concepts. And also would be introduced to some important rules of assessing casualty, its process and points that need to be remembered while doing it. Participants are introduced to some very important commonly occurring accidents and health issues in a crisis.

## OBJECTIVES OF THE PROGRAM

- To know the importance of giving first Aid
- To have a knowledge on basic first aid treatment in case of injury or accidents
- To learn the simple life saving techniques that would greatly help in cases of emergency
- To react to a given emergency situations correctly
- To learn to demonstrate the simple life saving techniques, some basic rescue drag and carrying techniques for evacuation of victims.

## FINAL ASSESSMENT

Final evaluation will be conducted at the end of the syllabus

## DURATION

30 hours beginning from 11<sup>th</sup> Feb 2023

## OUTCOME

- Able to understand how and when to administer first aid
- Able to provide appropriate treatment for the purpose of preserving life
- Able to minimise the consequences of injury until the arrival of medical assistance
- Able to provide appropriate treatment for an injury which does not require the attention of a medical practitioner
- Familiar with health & safety legislation on first aid in the workplace

## REGISTRATION PROCESS

Contact course coordinator -  
Dr Sripriya C



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## COURSE ON UNDERSTANDING CLINICAL DOCUMENTS AND SOFTWARES USED IN CLINICAL SETTINGS

(Course Code: UCDS 2022-23)

### List of students

S.NO	Name of the student	Signature
1.	Febi Francis V	
2.	Manohara Y M	
3.	Abhishek J	
4.	Ameen Khan	
5.	Anand Krishna C	
6.	Ashmitha Modak	
7.	Bindu B N	
8.	Chaithra M	
9.	Chandana K S	
10.	Deekshitha L	
11.	Devaraj A	
12.	Keerthi R	

Course Co-coordinator

Dr Sripriya C

HOD

Dr. Parthasarathy

P. Padma  
Principal

Dr. Padmaa M Paarakh



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## COURSE ON UNDERSTANDING CLINICAL DOCUMENTS AND SOFTWARES

### USED IN CLINICAL SETTING

(Course Code: UCDS 2022-23)

### SYLLABUS

MODULES	TOPICS
Module I	Introduction to clinical documents
	Purpose of clinical documents
	Types of clinical documents
	Quality of documentation
	Interpreting the laboratory data
	Understanding the errors in documenting the data
	Job roles related to clinical documentation
	Basic computer components and terminology
	Medical word building
	Different software used in clinical setting
	Introduction- dictation software
	Benefits of dictation software
	Types of dictation software
	Implementation planning for dictation software
	Access to dictation software
Module II	Limitations of dictation software
	Engaging with dictation software
	Electronic health record system
	Types of EHR implementation.
	Clinical importance of medical records
	Electronic clinical outcome assesment
	Technology and medical professionals
	Medical practice management softwares
	Validation of clinical trial data
	Data coding using WHO dictionaries
	CRF design and development
CRF annotations	
Data base setup and testing	
Electronic data capture	
CRF tracking and data collection	

CO-ORDINATORS

Dr Sripriya c

*Sripriya*

HOD

Dr Parthasarathy

*Parthasarathy*

*P. Padmaa*  
PRINCIPAL

Dr Padmaa M Paarakh



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## COURSE ON UNDERSTANDING CLINICAL DOCUMENTS AND SOFTWARES USED IN CLINICAL SETTINGS

(COURSE CODE – UCDS 2022-23)

### SESSION PLAN

Sl.NO	DATE	DAY	TIME	MODULE	FACULTY
1	15/07/2023	SATURDAY	01:30-02:00PM	Introduction to the program	Dr Parthasarathy
2	15/07/2023	SATURDAY	02:00-03:00PM	Introduction to clinical documents	Dr Jeena Susan
3	19/07/2023	WEDNESDAY	04:30-05:30PM	Purpose of clinical documents	Dr Jeena Susan
4	21/07/2023	FRIDAY	04:30-05:30PM	Types of clinical documents-Patient form and consent	Dr Jeena Susan
5	22/07/2023	SATURDAY	01:30-02:30PM	Financial reports	Dr Jeena Susan
6	26/07/2023	WEDNESDAY	04:30-05:30PM	Legal documents	Dr Jeena Susan
7	28/07/2023	FRIDAY	04:30-05:30PM	Medical billing and claims	Dr Jeena Susan
8	29/07/2023	SATURDAY	01:30-02:30PM	Accrediation and licensing documents	Dr Jeena Susan
9	02/08/2023	WEDNESDAY	04:30-05:30PM	Insurance documents	Dr Jeena Susan
10	04/08/2023	FRIDAY	04:30-05:30PM	Electronic health records	Dr Jeena Susan
11	05/08/2023	SATURDAY	01:30-02:30PM	Quality of documentation	Dr Jeena Susan
12	09/08/2023	WEDNESDAY	04:30-05:30PM	Interpretating the laboratory data	Dr Jeena Susan
13	11/08/2023	FRIDAY	04:30-05:30PM	Understanding the errors in documenting the data	Dr Jeena Susan
14	12/08/2023	SATURDAY	01:30-02:30PM	Job roles related to clinical documentation	Dr Jeena Susan
15	16/08/2023	WEDNESDAY	04:30-05:30PM	Basic computer components and terminology	Dr Sripriya C
16	18/08/2023	FRIDAY	04:30-05:30PM	Medical word building	Dr Sripriya C
17	19/08/2023	SATURDAY	01:30-02:30PM	Different software used in	Dr Sripriya C



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				clinical setting	
18	23/08/2023	WEDNESDAY	04:30-05:30PM	Introduction- electronic health record software	Dr Sripriya C
19	25/08/2023	FRIDAY	04:30-05:30PM	Hospital management software	Dr Sripriya C
20	26/08/2023	SATURDAY	01:30-02:30PM	Tracking apps	Dr Sripriya C
21	30/08/2023	WEDNESDAY	04:30-05:30PM	Medical billing software	Dr Sripriya C
22	01/09/2023	FRIDAY	04:30-05:30PM	E prescribing software	Dr Sripriya C
23	02/09/2023	SATURDAY	01:30-02:30PM	Medical imaging software	Dr Sripriya C
24	06/09/2023	WEDNESDAY	04:30-05:30PM	Clario CTMS & octalsoft CTMS	Dr Sripriya C
25	08/09/2023	FRIDAY	04:30-05:30PM	Ambulatory software	Dr Sripriya C
26	09/09/2023	SATURDAY	01:30-02:30PM	Clinical trail automation software	Dr Sripriya C
27	13/09/2023	WEDNESDAY	04:30-05:30PM	Lung cancer detection	Dr Sripriya C
28	15/09/2023	FRIDAY	04:30-05:30PM	Asthma monitoring devices	Dr Sripriya C
29	16/09/2023	SATURDAY	01:30-02:30PM	API integration	Dr Sripriya C
30	20/09/2023	WEDNESDAY	04:30-05:30PM	Electronic data capture systems	Dr Sripriya C
31	22/09/2023	FRIDAY	04:30-05:30PM	Appointment scheduling	Dr Sripriya C
32	23/09/2023	SATURDAY	01:30-02:30 PM	Valedictory	Valedictory <sup>o</sup>

CO-ORDINATOR

Dr Sripriya C

HOD

Dr Parthasarathy G

PRINCIPAL

Dr Padmaa M Parakh



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## COURSE ON UNDERSTANDING CLINICAL DOCUMENTS AND SOFTWARES USED IN CLINICAL SETTINGS

(COURSE CODE – UCDS 2022-23)

### OUTCOME REPORT

The Department of Pharmacy Practice of The Oxford college of pharmacy, Bangalore 560068 is conducted a Course on Understanding Clinical Documents and Softwares Used In Clinical Settings (Course Code – UCDS 2022-23). 12 Students enrolled the course. The importance of complete medical records in healthcare organizations has always been clear, but never more than now with the added pressure of the pandemic on the healthcare system in general. Medical documentation provided a full picture of a patient's medical history, in order for clinicians to have all the information they need to consider when treating or diagnosing a patient. If this information is incorrectly documented, illegible or unnecessarily delayed, it can cause immense risk to the patient in question. Good documentation provides patient safety and quality of care. It is extremely important that healthcare organizations put time, effort and resources into ensuring that their documentation practices meet high quality standards. The knowledge of Good documentation promotes patient safety and quality of care. This course provides registrants to have a thorough knowledge about the software used in Clinical settings that will be quite helpful in the further studies and medical coding. The course focuses on the various theories and concepts of softwares and its practical application/research work.

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

1. Learn the principles and ethics to be followed while preparing documents
2. Properly interpret medications, dosages, and instructions for medication administration.
3. Correctly spell commonly prescribed medications
4. Identify basic types of medical records, including work types, components, formatting, and documentation standards.

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

COURSE COORDINATOR

Dr Sripriya C

HOD

Dr Parthasarthy G

PRINCIPAL

Dr Padmaa M. Paarakh





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## COURSE ON UNDERSTANDING CLINICAL DOCUMENTS AND SOFTWARES USED IN CLINICAL SETTINGS

(Course Code: UCDS 2022-23)

### COURSE COMPLETION REPORT

The Department of Pharmacy practice, The Oxford college of Pharmacy, Bangalore, conducted a course on Understanding Clinical Documents And Softwares Used In Clinical Settings (Course Code: UCDS 2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the management of documents and software used in clinical settings.

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 Sripriya C. Total 12 students were present. The inaugural function has been summed up with the introductory lecture of course coordinator Dr Sripriya C.

A total 30 Hours course had been conducted on Wednesday, Friday and Saturday after college hours. Total 12 students were enrolled for the 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 result for module I, II and overall were analysed. Approximately 59 % students scored grade A (marks percentage-100%) in all the tests followed by 25.2% who scored grade B (marks percentage-90%) and 14.8% scored grade C (marks percentage-80%).

The performance of the students in the tests were found excellent. About eighty nine 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 23/09/2023 and the course participation certificate were distributed to all 12 students by the Principal Dr. Padmaa M. Paarakh and Head of the Department Dr Parthasarathy G. Dr. Parthasarathy G 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, The Oxford college of Pharmacy, Bangalore had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmacy practice and the course coordinator Dr Sripriya C for successful completion of the course.

Course Coordinator

  
HOD

Dr Sripriya C  


Dr Parthasarthy G

  
Principal

Dr Padmaa M Paarakh



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## COURSE ON FIRST AID AND EMERGENCY CARE BY PHARMACIST (COURSE CODE – FEC 2022-23)

### NOTICE

Date: 30/01/2023.

To

Notice Board

To be read in the classrooms

Course Coordinator- Dr Sripriya C,

To be filed

The Oxford College of Pharmacy, Bengaluru introduces a **30 hours** Course in First Aid and emergency care by pharmacist for the academic year 2022-2023, for the benefit of M.Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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 08<sup>th</sup> feb 2023 and will be conducted on Wednesday and Thursday after the regular classes. The eligibility criteria include students pursuing a Pharmacy degree, that is M. Pharm, B. Pharm, Pharm. D, and Pharm. D (Post baccalaureate) students. Interested students can enroll with Dr Sripriya C, course coordinator on or before 04<sup>th</sup> feb 2023.

COURSE CO-ORDINATOR

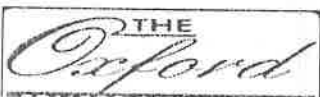
Dr Sripriya C

HOD

Dr Parthasarathy G

PRINCIPAL

Dr Padmaa M Parakh



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## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD	Dr. Parthasarathy G HOD, Department of Pharmacy Practice TOCP, Bangalore.
Course coordinator	Dr Sripriya C. Department of Pharmacy Practice TOCP Bangalore

**For Further Information Contact**  
**Dr SRIPRIYA C**  
Email: sripriyachittibabu@gmail.com  
Course Coordinator  
Department of Pharmacy Practice TOCP, Bengaluru

## 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, Pharm. D, Pharm. D (Post-Baccalaureate) and M. Pharm. Students from second, third, fourth, fifth Pharm. D and first, second, third Pharm. D (Post baccalaureate) and from fifth, sixth, seventh, eighth semesters B. Pharm.

## Course

On

## “FIRST AID AND EMERGENCY CARE BY PHARMACIST”



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: 4<sup>th</sup> Feb 2023

Date of commencement: 8<sup>th</sup> Feb 2023

Final Evaluation : after completion of 30 hours



## 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 Dr Jeena Susan Course Coordinator

## STRUCTURE

- Course will be conducted for **30 hours**
- Weekly 2 hr. after the college hours.

## COURSE DESCRIPTION

The Department of Pharmacy Practice, TOCP, Bangalore- 560068 introduces a course Understanding Clinical documents and softwares used in clinical settings' teaches the need of documentation in clinical setting. The course focuses on the various spectrum of importance of knowledge on types of clinical documents their significance in betterment of treatment.

## OBJECTIVES OF THE

### TRAINING PROGRAM

- To learn the principles and ethics to be followed while preparing documents
- Properly interpret medications, dosages, and instructions for medication administration,
- Correctly spell commonly prescribed medications
- Identify basic types of medical records, including work types, components, formatting, and documentation standards.

### FINAL ASSESSMENT

Final evaluation will be conducted at the end of the syllabus

### DURATION

**30 hours** beginning from 15th July 2023

## COURSE OUTCOME

- Course helped students to expose to new syllabus as it is not a part of syllabus.
- Provides an opportunity to get a job in clinical trials and pharmacovigilance programs as compared to non-certificate students.
- Course helps students to improve the knowledge in the field of clinical documentation and SOAP analysis in case studies etc.
- Provides information to students regarding maintenance of medical documents in standard format and provide services to health care team in professional way.

### REGISTRATION PROCESS

Students can directly contact respective class teachers and register.





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## COURSE ON FIRST AID AND EMERGENCY CARE BY PHARMACIST

(Course Code: FEC 2022-23)

### List of students

S.NO	Name of the student	Signature
1.	Febi Francis V	
2.	Manohara Y M	
3.	Abhishek J	
4.	Ameen Khan	
5.	Anand Krishna C	
6.	Ashmitha Modak	
7.	Bindu B N	
8.	Chaitra M	
9.	Chandana K S	
10.	Deekshitha L	
11.	Devaraj A	
12.	Keerthi R	

Course Co-coordinator

Dr Sripriya C

HOD

Dr. Parthasarathy

Principal

Dr. Padmaa M Paarakh

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## COURSE ON FIRST AID AND EMERGENCY CARE BY PHARMACIST (COURSE CODE:FEC 2022-23)

### Syllabus

MODULES	TOPICS
MODULE - I	Principles of First Aid
	Practices of first Aid.
	First aid kit and use of materials
	Assessment in First Aid
	Understanding vital signs
	Understanding the Structure and Function of essential body parts
	Safe handling of patient
	Triage
	First Aid in Accident - indoor, outdoors & Abrasion
	First Aid in Cuts
	First Aid in Fractures
	First Aid in Poisoning
	Airway management
	Haemorrhage management
CPR	
Paediatric emergencies	
MODULE - II	First aid and law
	First aid techniques.
	Obstruction due to foreign body
	Understanding AED
	Geriatrics emergencies
	Psychological first Aid
	First aid in disasters and multiple casualty accidents.
	First Aid in Burns
	First Aid in shock
	First Aid in snake bites
	First Aid in Abrasion.
	Safe transportation of patients.
	First aid in animal bites
	First aid in insect stings and bites.

  
COURSE COORDINATOR

Dr Sripriya C

  
HOD

Dr Parthasarathy

  
PRINCIPAL

Dr Padmaa M Paarakh



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## COURSE ON FIRST AID AND EMERGENCY CARE BY PHARMACIST (COURSE CODE – FEC 22-23)

### SESSION PLAN

SL.N O	DATE	DAY	TIME	MODULE	FACULTY
1	08/02/2023	WEDNESDAY	4:30-5:30 PM	Inauguration Principles of First Aid	Dr Sripriya C
2	09/02/2023	THURSDAY	4:30-5:30 PM	Practices of First Aid	Dr Sripriya C
3	15/02/2023	WEDNESDAY	1:30-2:30 PM	First aid kit and use of materials	Dr Sripriya C
4	16/02/2023	THURSDAY	4:30-5:30 PM	First aid and law	Dr Sripriya C
5	22/02/2023	WEDNESDAY	1:30-2:30 PM	First aid techniques	Dr Sripriya C
6	23/02/2023	THURSDAY	4:30-5:30 PM	Assessment in First Aid	Dr Sripriya C
7	01/03/2023	WEDNESDAY	1:30-2:30 PM	Understanding vital signs	Dr Sripriya C
8	02/03/2023	THURSDAY	4:30-5:30 PM	Understanding the Structure and Function of essential body parts	Dr Sripriya C
9	08/03/2023	WEDNESDAY	1:30-2:30 PM	Safe handling of patient	Dr Sripriya C
10	09/03/2023	THURSDAY	4:30-5:30 PM	Safe transportation of patient	Dr Sripriya C
11	15/03/2023	WEDNESDAY	1:30-2:30 PM	Triage	Dr Sripriya C
12	16/03/2023	THURSDAY	4:30-5:30 PM	First Aid in Accident - indoor, outdoors	Dr Jeena susan
13	05/04/2023	WEDNESDAY	1:30-2:30 PM	First Aid in Abrasion	Dr Jeena susan
14	06/04/2023	THURSDAY	4:30-5:30 PM	First Aid in Cuts	Dr Jeena susan
15	12/04/2023	WEDNESDAY	1:30-2:30 PM	First Aid in Snake Bites	Dr Jeena susan
16	13/04/2023	THURSDAY	4:30-5:30 PM	First Aid in animal bites(dog, cat, monkey)	Dr Jeena susan
17	19/04/2023	WEDNESDAY	1:30-2:30 PM	First aid in insect stings and bites	Dr Jeena susan
18	20/04/2023	THURSDAY	4:30-5:30 PM	First Aid in Fractures	Dr Jeena susan
19	26/04/2023	WEDNESDAY	1:30-2:30 PM	First Aid in Burns	Dr Jeena susan



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20	27/04/2023	THURSDAY	4:30-5:30 PM	First Aid in Poisoning	Dr Jeena susan
21	03/05/2023	WEDNESDAY	1:30-2:30 PM	First Aid in Shock	Dr Jeena susan
22	04/05/2023	THURSDAY	4:30-5:30 PM	First aid in Disasters and multiple casualty accidents	Dr Jeena susan
23	10/05/2023	WEDNESDAY	1:30-2:30 PM	Psychological first Aid	Dr Jeena susan
24	11/05/2023	THURSDAY	4:30-5:30 PM	Airway management	Dr Jenisha K
25	17/05/2023	WEDNESDAY	1:30-2:30 PM	Haemorrhage management	Dr Jenisha K
26	18/05/2023	THURSDAY	4:30-5:30 PM	Obstruction due to foreign body	Dr Jenisha K
27	24/05/2023	WEDNESDAY	1:30-2:30 PM	CPR	Dr Jenisha K
28	25/05/2023	THURSDAY	4:30-5:30 PM	Understanding AED	Dr Jenisha K
29	31/05/2023	WEDNESDAY	1:30-2:30 PM	Paediatric emergencies	Dr Jenisha K
30	01/06/2023	THURSDAY	4:30-5:30 PM	Geriatrics emergencies	Dr Jenisha K
31	07/06/2023	WEDNESDAY	1:30-2:30 PM	Valedictory	Valedictory

Course Co-ordinator

Dr Sripriya C

HOD

Dr Parthasarathy G

PRINCIPAL

Dr Padmaa M Parakh



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## COURSE ON FIRST AID AND EMERGENCY CARE BY PHARMACIST (COURSE CODE – FEC 2022-23)

### Outcome Report

The Department of Pharmacy Practice, The Oxford College of Pharmacy, Bangalore- 560068, completed course on First Aid and Emergency Care by Pharmacist (Course Code - FEC 22-23). About 12 students were registered and the course was conducted for 30 hours. The students were able to understand the aim of first aid, basic concepts, important rules of assessing casualty, its process and points that need to be remembered while doing it. Participants were introduced to some very important commonly occurring accidents and health issues in a crisis.

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

1. Have a knowledge on basic first aid treatment in case of injury or accidents
2. Learn the simple life saving techniques that would greatly help in cases of emergency
3. React to a given emergency situations correctly
4. Learn to demonstrate the simple life saving techniques, some basic rescue drag and carrying techniques for evacuation of victims.

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

COORDINATOR

Dr Sripriya C

  
HOB

Dr Parthasarathy G

  
PRINCIPAL

Dr Padmaa M. Paarakh





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## COURSE ON FIRST AID AND EMERGENCY CARE BY PHARMACIST

(COURSE CODE – FEC 2022-23)

### Course Completion Report

The Department of Pharmacy Practice, The Oxford college of Pharmacy, Bangalore, conducted a course on First Aid and emergency care by pharmacist for the academic year 2022-23. People rarely give first aid a thought, until the day they need it. However, with correct first aid training anyone could, in short term (until the arrival of emergency services) save a life. Students enrolled in the course learnt the aim of first aid and introduced to its basic concepts. And also learnt some important rules of assessing casualty, its process and points that need to be remembered while doing it. Participants were introduced to commonly occurring accidents and health issues in a crisis.

The course was started with an inaugural function by welcoming the Principal Dr Padmaa M. Paarakh. The function was conducted in Room no 501, and all the participants were welcomed by Dr Sripriya C, Course Coordinator. About 12 students were present for the session. The inaugural function has been summed up with the introductory lecture of Dr Parthasarathy G, HOD, Department of Pharmacy practice.

A total 30 Hours course had been conducted on Wednesday and Saturday after college hours. The total 12 students were enrolled for the 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 result for module I, II and overall were analysed. The results of the tests conducted for all the two modules are as follows: Approximately 66.6 % students scored grade A in all the tests followed by 29.6 % who scored grade B and 3.7 % scored grade C. The performance of the students in the tests were found to be excellent. About Eighty Five percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and exploring themselves through the interactive sessions conducted.

The valedictory function has been conducted on 10/06/2023 and the course participation certificate were distributed to all 12 students by the Principal Dr. Padmaa M.Paarakh. Dr. Parthasarathy G 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, The Oxford college of Pharmacy, Bangalore had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmacy practice and the course coordinator Dr Sripriya C for successful completion of the course.

COURSE CO-ORDINATOR

Dr Sripriya C

HOD

Dr Parthasarathy G

PRINCIPAL

Dr Padmaa M Paarakh



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## COURSE ON BASIC TERMINOLOGIES IN PHARMACOVIGILANCE

(Course Code: BTP 2022-23)

### NOTICE

Date: 20-07-2023

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 Basic Terminologies In Pharmacovigilance for the academic year 2022-23, for the benefit of M.Pharm, B.Pharm, Pharm.D and Pharm.D(Post-Baccalaureate) 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> Aug 2023 and will be conducted after college hours on Monday, Friday and Saturday. The eligibility criteria include students Pursuing Pharmacy Degree M.Pharm, B.Pharm, Pharm.D and Pharm.D(Post-Baccalaureate). Interested students can enroll with Dr Jeena Susan Saji, course coordinator on or before 24<sup>th</sup> July 2023.

  
COURSE CO-ORDINATOR

Dr Jeena Susan saji

  
HOD

Dr Parthasarathy

  
PRINCIPAL

Dr Padmaa M Paarakh



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### Organizing Committee

Chairman	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.

### 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.

### For Further Information Contact

**Dr. Jeena Susan Saji**

Assistant Professor

Department of Pharmacy Practice  
TOCP, Bangalore

Email:

jeenasusansaji1998@gmail.com

Course  
On

### **“Basic Terminologies in Pharmacovigilance”**



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: 24 July 2023

Date commencement : 5th August 2023

Planned Examination : After completion  
of 30 hour classes

### ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree  
Mpharm, B.Pharm, (seventh, eighth  
semester B. Pharm) Pharm. D and Pharm.  
D (Post-Baccalaureate)

## REGISTRATION

Registration Fees

NIL  
It is a free course offered by The Oxford College of Pharmacy Ba, Bangalore-68.

Contact person for registration

Dr Jeena Susan Saji  
9074795810

## STRUCTURE

- Course will be conducted for **30 hours.**
- Every Monday, Friday and Saturday after the college hours.(Offline mode).
- Course will be conducted through offline mode.

## COURSE DESCRIPTION

The Department of Pharmacy Practice, TOCP, Bangalore introduces a thirty hours course on Basic Terminologies in Pharmacovigilance(CourseCode: BTP2022-23). This course offers the necessary knowledge in Basic medical terminologies used in Pharmacovigilance.

## OBJECTIVES OF PROGRAM

- To develop the skills needed to improve the patient care and safety in use of medications and to improve the public health.
- To promote understanding, education and clinical training in pharmacovigilance and its effective communication to 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

- Students will Understand the basic terminologies and medical coding in the field of pharm.acy.
- Students will acquire knowledge for finding out severe ADR which cannot be found out through clinical trials.
- This course helps to earn an opportunity to get a job in detection and reporting of ADR in the field of pharmacovigilance in various organization.

## REGISTRATION PROCESS

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





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## Course on Basic Terminologies in Pharmacovigilance

(Course Code: BTP 2022-23)

### REGISTRATION LIST

S. No	Student Name	Signature
1	ABINAYA SANGAVI A	Abinaya Sangavi A
2	AISHWARYA K	Aishwarya K
3	AJAY KUMAR N	Ajay Kumar N
4	ANU R	Anu R
5	BARANIDHARAN G	Baranidharan G
6	HEMA S REDDY	Hema S Reddy
7	IMLIBENBA OZUKUM	Imlibenba Ozukum
8	J. JEEVITHA	J. Jeevitha
9	JYOTHIRMOY GHOSH	Jyothirmoy Ghosh
10	KRISHNAJITH S	Krishnajith S
11	LAKSHMI. P	Lakshmi. P
12	MAIVANNAN K	Maivannan K
13	MALLIKARJUN SINOOR	Mallikarjun Sinoor
14	MOHAMMED SAIF KHAZI	Mohammed Saif Khazi
15	NAYANA RAI A	Nayana Rai A
16	RAAFI JAMAL J	Raafi Jamal J
17	RISHAB MISHRA	Rishab Mishra
18	RUPKUMAR DAS	Rupkumar Das
19	SAM SHERMAN S	Sam Sherman S
20	SAVITHA T V	Savitha T V

COURSE CO-ORDINATOR

Dr Jeena Susan Saji

HOD

Dr Parthasarathy G

PRINCIPAL

Dr Padmaa M Paarakh





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## Course on BASIC TERMINOLOGIES IN PHARMACOVIGILANCE


(Course Code: BTP 2022-23)

### Syllabus

MODULES	TOPICS
MODULE - I	Introduction to Pharmacovigilance
	Importance of safety monitoring of medicine
	WHO international drug monitoring program
	Pharmacovigilance in india
	Basic Terminologies used in pharmacovigilance
	Terminologies of Adverse medication related events.
	Regulatory terminologies
	Drug dictionaries and coding in pharmacovigilance
	WHO adverse reaction terminologies
	MedDRA
	Eudravigilance
	Information resources in pharmacovigilance
	Pharmacovigilance methods
	Passive Surveillance
Active Surveillance	
MODULE - II	Communication in Pharmacovigilance
	Communicating the outcome of pharmacovigilance
	ICH guidelines for Pharmacovigilance
	Organisation and objectives of ICH
	Pharmacovigilance Planning
	Good clinical practice in pharamcovigilance
	CDSCO and Pharmacovigilance
	Introduction to adverse drug reactions
	Classification of ADR
	Detection and reporting of ADR
	Causality assessment
	Preventability and predictability
	Management of ADR
	Vaccine Pharmacovigilance
Pharmacovigilance division at CDSCO	

  
COURSE COORDINATOR  
Dr Jeena susan saji

  
HOD  
Dr Parthasarathy G

  
PRINCIPAL  
Dr Padmaa M Paarakh



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## COURSE ON BASIC TERMINOLOGIES IN PHARMACOVIGILANCE

(Course Code: BTP2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	05/08/2023	SATURDAY	1:30 – 2:30PM	Inauguration Module 1	Dr Jeena Susan Saji
2	5/08/2023	SATURDAY	3.00-4.00PM	Module 1	Dr Jeena Susan Saji
3	7/08/2023	MONDAY	5.00 – 6.00PM	Module 1	Dr Jeena Susan Saji
4	11/08/2023	FRIDAY	5.00-6.00PM	Module 1	Dr Jeena Susan Saji
5	12/08/2023	SATURDAY	1:30 – 2:30PM	Module 1	Dr Jeena Susan Saji
6	12/08/2023	SATURDAY	3.00-4.00PM	Module 1	Dr Jeena Susan Saji
7	14/08/2023	MONDAY	5.00-6.00PM	Module 1	Dr Jeena Susan Saji
8	18/08/2023	FRIDAY	5.00-6.00PM	Module 1	Dr Jeena Susan Saji
9	19/08/2023	SATURDAY	1:30 – 2:30PM	Module 1	Dr Jeena Susan Saji
10	19/08/2023	SATURDAY	3.00-4.00PM	Module 1	Dr Jeena Susan Saji
11	21/08/2023	MONDAY	5.00-6.00PM	Module 1	Dr Jeena Susan Saji
12	25/08/2023	FRIDAY	5.00-6.00PM	Module 1	Dr Jeena Susan Saji
13	26/08/2023	SATURDAY	1:30 – 2:30PM	Module 1	Dr Jeena Susan Saji
14	26/08/2023	SATURDAY	3.00-4.00PM	Module 1	Dr Jeena Susan Saji
15	28/08/2023	MONDAY	5.00-6.00PM	Module 1	Dr Jeena Susan Saji
16	1/09/2023	FRIDAY	5.00-6.00PM	Module 2	Dr Jeena Susan Saji
17	2/09/2023	SATURDAY	1:30 – 2:30PM	Module 2	Dr Jeena Susan Saji
18	2/09/2023	SATURDAY	3.00-4.00PM	Module 2	Dr Jeena Susan Saji
19	4/09/2023	MONDAY	5.00-6.00PM	Module 2	Dr Jeena Susan Saji
20	8/09/2023	FRIDAY	5.00-6.00PM	Module 2	Dr Jeena Susan Saji
21	9/09/2023	SATURDAY	1:30 – 2:30PM	Module 2	Dr Jeena Susan Saji
22	9/09/2023	SATURDAY	3.00-4.00PM	Module 2	Dr Jeena Susan Saji




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23	11/09/2023	MONDAY	5.00-6.00PM	Module 2	Dr Jeena Susan Saji
24	15/09/2023	FRIDAY	5.00-6.00PM	Module 2	Dr Jeena Susan Saji
25	16/09/2023	SATURDAY	1:30 - 2:30PM	Module 2	Dr Jeena Susan Saji
26	16/09/2023	SATURDAY	3.00-4.00PM	Module 2	Dr Jeena Susan Saji
27	22/09/2023	FRIDAY	4.00-5.00PM	Module 2	Dr Jeena Susan Saji
28	22/09/2023	FRIDAY	5.00-6.00PM	Module 2	Dr Jeena Susan Saji
29	23/09/2023	SATURDAY	1:30 - 2:30PM	Module 2	Dr Jeena Susan Saji
30	23/09/2023	SATURDAY	3.00-4.00PM	Module 2	Dr Jeena Susan Saji
31	25/09/2023	MONDAY	12.30-1.30PM	Valedictory	Valedictory Dr Jeena Susan Saji

  
COURSE CO-ORDINATOR  
Dr Jeena Susan Saji

  
HOD  
Dr Parthasarathy G

  
PRINCIPAL  
Dr Padmaa M Paarakh



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## COURSE ON BASIC TERMINOLOGIES IN PHARMACOVIGILANCE

(Course Code: BTP 2022-23)

### OUTCOME REPORT

The Department of Pharmacy Practice, The Oxford College of Pharmacy, Bangalore-560068, completed course on Basic Terminologies In Pharmacovigilance (Course Code: BTP 2022-23). 20 students were registered, and the course was conducted for **30 hours**. This course offers the basic knowledge about the medical terms and terminologies used in Pharmacovigilance.

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

- Understand the basic terminology and the medical coding 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 organization.

  
COURSE CO-ORDINATOR

Dr Jeena Susan Saji

  
HOD

Dr Parthasarathy G

  
PRINCIPAL

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## COURSE ON BASIC TERMINOLOGIES IN PHARMACOVIGILANCE

(Course Code: BTP 2022-23)

### COMPLETION REPORT

The Department of Pharmacy Practice, The Oxford college of Pharmacy, Bangalore, conducted a course on Basic terminologies in Pharmacovigilance (Course Code: BTP2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basic principles and terminologies of Pharmacovigilance.

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 Jeena Susan Saji. Total 20 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 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 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 25/09/2023 and the course participation certificate were distributed to all 20 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 COORDINATOR

Dr Jeena Susan Saji

  
HOD

Dr Parthasarathy G

  
PRINCIPAL

Dr Padmaa M Paarakh



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## COURSE ON PRESCRIPTION HANDLING, MANAGEMENT AND ANALYSIS OF PRESCRIPTION

(Course Code: PHA 2022-23)

### NOTICE

Date: 18-04-2023

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 Prescription Handling, Management And Analysis Of Prescription for the academic year 2022-23, for the benefit of M. Pharm, B pharm, 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 5th May 2023 and will be conducted after the college hours on Friday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B pharm, Pharm D, Pharm D PB students. Interested students can enroll with Dr Jenisha k, course coordinators on or before 30<sup>th</sup> April 2023.

**COURSE COORDINATOR**

**HOD**

**PRINCIPAL**

**DR. JENISHA K**

**DR. PARTHASARATHY G**

**DR. PADMAA M PAARAKH**



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## Organizing Committee

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

## For Further Information Contact

**Dr JENISHA K**

Email: [jenishaks98@gmail.com](mailto:jenishaks98@gmail.com)

Course Coordinator

Department of

PharmacyPractice,TOCP, Bengaluru

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## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., B. Pharm, Pharm. D, Pharm. D (Post-Baccalaureate) and M. Pharm. Students from second, third, fourth, fifth Pharm. D and first, second, third Pharm. D (Post baccalaureate) and from fifth, sixth, seventh, eighth semesters B. Pharm.

## Course On

## “PRESCRIPTION HANDLING, ANALYSIS AND MANAGEMENT”



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: 30 April  
2023

Date of commencement: 05 May 2023

Final Evaluation 18 Aug 2023

## REGISTRATION

Registration NIL

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

Contact  
person for  
registratio  
Dr JENISHAK  
Course Coordinator

## STRUCTURE

- Course will be conducted for 30 hours through after college hours.
- Course will be conducted via offline mode
- Every Fridays and Saturdays after college hours( offline)

## COURSE DESCRIPTION

The Department of Pharmacy Practice, TOCP , Bangalore- 560068 introduces a course PREScription HANDLING, MANAGEMENT AND ANALYSIS OF PRESCRIPTION (Course code PHA 2022-23) teaches how to handle and analyse the prescription in detail and how to deal with a medication errors and prescription error and how it will be managed. The course focuses on the various theories and concepts of handling a prescription and its practical

## OBJECTIVES OF THE PROGRAM

### PROGRAM

- Properly interpret medications, dosages, and finding interactions between the drugs, medication error, prescription error, instructions for medication administration. Correctly spell commonly prescribed medications. Identify basic types of medical records, including work types, components, formatting, and documentation standards.
- After completing the certificate course, the candidate can begin working in a hospital, private company, or pharmaceutical company.

## FINAL ASSESSMENT

Final evaluation will be conducted at the end of the syllabus

## OUTCOME

- Understand how to analyze the prescription and understand the different calculation to be done to calculate the dose.
- Understand the prescribing pattern of the drugs.
- Understand the process of analysis, interpreting the data and report it.
- Familiar with the abbreviation, medical terms used in the prescription.

## REGISTRATION PROCESS

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

## DURATION

30 hours beginning from 05<sup>th</sup> MAY 2023





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## COURSE ON PRESCRIPTION HANDLING, MANAGEMENT AND ANALYSIS OF PRESCRIPTION

(Course Code: PHA 2022-23)

S.No	Student Name	Signature
1	AMIT SINGH	Amit Singh
2	BADEPALLI REDDAIAH REDDY	BRR
3	BENGULURI RAMESH TEJASWINI	Ramesh
4	HARSHA K M	Harsha KM
5	JAWAHARMANIYARASAN S	S. Jawahar
6	MANOJ AN	Manoj An
7	MOHAMMAD AMIN YATOO	Amin Yattoo
8	MULLA UJMA RIYAZ	Mulla Ujma
9	NALAGATLA SUNANDHA	Sunandha
10	R. NAVYASREE	Navya
11	RANJITA RAMESH SHETTY	Ranjita Ramesh Shetty
12	SNEHA M	Sneha M
13	SONALI MILAN NALAWADE	Sonali
14	SWETHA YOGANANDAN	Swetha Y.
15	VIJAY KUMAR R	Vijay Kumar R
16	ATHMAJA SHETTY	Athmaja Shetty R
17	KRISHNAGIRI KRISHNABABU	Krishnagiri
18	RAKESH BABU SN	Rakesh Babu
19	YOGARAJ R	Yograj R
20	YUKTHA HJ	Yuktha HJ
21	KIRAN P	Kiran P
22	MONISHA K C	Monisha KC
23	MONISHA S	Monisha S
24	NITHIN KUMAR C	Nithin Kumar C
25	PURUSHOTHAMAN C	Purushothaman C

COURSE COORDINATOR

DR. JENISHA K

HOD

DR. PARTHASARATHY G

PRINCIPAL

DR. PADMA PAARAKH



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## COURSE ON PRESCRIPTION HANDLING, MANAGEMENT AND ANALYSIS OF PRESCRIPTION

(Course Code: PHA 2022-23)

MODULES	TOPICS
MODULE - I	Introduction to prescription handling
	Definition, parts of prescription and their functions.
	legality of prescription, principals of prescribing
	Sources of error in prescription
	Dispensing error and care given in dispensing prescription
	Labelling of dispensed medication
	Good dispensing practice
	Abbreviation used in prescriptions
	Different types of prescriptions
	Medication error and its types
	Assessment of medication error
	Management of medication error
	Medication management strategy
	WHO guidelines for prescription writing
Prescribing pattern of drugs	
MODULE - II	Introduction to prescription audit
	Importance of conduction prescription auditing
	Pre-requisites of prescription audit
	Objectives of prescription audit
	Prescription audit methodology
	General principals of conduction prescription audit
	Audit criteria
	Prescribing indicators
	Quality improvement cycle for prescription audit
	Prescription audit checklist in NABH
	Parameters analysed in prescription audit
	Start smart audit tool for antibiotic prescribing
	Software used in auditing
	Medication reconciliation on admission
Medication reconciliation on discharge	

COURSE COORDINATOR

DR. JENISHA K

HOD

DR. PARTHASARATHY G

PRINCIPAL

DR. PADMAA M PAARAKH



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e-mail: pharmacyprincipal@theoxford.edu.in





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## COURSE ON PRESCRIPTION HANDLING, MANAGEMENT AND ANALYSIS OF PRESCRIPTION

(Course Code: PHA 2022-23)

### Session Plan

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	05-05-2023	Friday	4.00-5.30PM	Inaugural Module-1	Dr. Padmaa. M. Paarakh Dr. jenisha k
2	06-05-2023	Saturday	4.00-5.00PM	Module-1	Dr. jenisha k
3	12-05-2023	Friday	4.00-5.00PM	Module-1	Dr. jenisha k
4	13-05-2023	Saturday	4.00-5.00PM	Module-1	Dr. jenisha k
5	19-05-2023	Friday	4.00-5.00PM	Module-1	Dr. jenisha k
6	20-05-2023	Saturday	4.00-5.00PM	Module-1	Dr. jenisha k
7	26-05-2023	Friday	4.00-5.00PM	Module-1	Dr. jenisha k
8	27-05-2023	Saturday	4.00-5.00PM	Module-1	Dr. jenisha k
9	02-06-2023	Friday	4.00-5.00PM	Module-1	Dr. jenisha k
10	03-06-2023	Saturday	4.00-5.00PM	Module-1	Dr. jenisha k
11	09-06-2023	Friday	4.00-5.00PM	Module-1	Dr. jenisha k
12	10-06-2023	Saturday	4.00-5.00PM	Module-1	Dr. jenisha k
13	16-06-2023	Friday	4.00-5.00PM	Module-1	Dr. jenisha k
14	17-06-2023	Saturday	4.00-5.00PM	Module-1	Dr. jenisha k
15	23-06-2023	Friday	4.00-5.00PM	Module-1	Dr. jenisha k
16	24-06-2023	Saturday	4.00-5.00PM	Module-2	Dr. jenisha k
17	30-06-2023	Friday	4.00-5.00PM	Module-2	Dr. jenisha k
18	01-07-2023	Saturday	4.00-5.00PM	Module-2	Dr. jenisha k
19	07-07-2023	Friday	4.00-5.00PM	Module-2	Dr. jenisha k



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20	08-07-2023	Saturday	4.00-5.00PM	Module-2	Dr. jenisha k
21	14-07-2023	Friday	4.00-5.00PM	Module-2	Dr. jenisha k
22	15-07-2023	Saturday	4.00-5.00PM	Module-2	Dr. jenisha k
23	21-07-2023	Friday	4.00-5.00PM	Module-2	Dr. jenisha k
24	22-07-2023	Saturday	4.00-5.00PM	Module-2	Dr. jenisha k
25	28-07-2023	Friday	4.00-5.00PM	Module-2	Dr. jenisha k
26	29-08-2023	Saturday	4.00-5.00PM	Module-2	Dr. jenisha k
27	04-08-2023	Friday	4.00-5.00PM	Module-2	Dr. jenisha k
28	05-08-2023	Saturday	4.00-5.00PM	Module-2	Dr. jenisha k
29	11-08-2023	Friday	4.00-5.00PM	Module-2	Dr. jenisha k
30	12-08-2023	Saturday	4.00-5.00PM	Module-2	Dr. jenisha k
31	18-08-2023	Friday	4.00-5.00PM	Valedictory	Dr. jenisha k

COURSE COORDINATOR

DR. JENISHA K

HOD

DR. PARTHASARATHY G

PRINCIPAL

DR. PADMAA M PAARAKH



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)

Accredited by NAAC and International Accreditation Organization (IAO)

## COURSE ON PRESCRIPTION HANDLING, MANAGEMENT AND ANALYSIS OF PRESCRIPTION

(Course Code: PHA 2022-23)

### OUTCOME REPORT

The Department of Pharmacy practice, The Oxford College of Pharmacy, Bangalore- 560068, completed course in Prescription Handling, Management, and Analysis of Prescription 2022-23 (Course Code: PHA 2022-23). 25 students were registered and the course was conducted for **30 hours**. This course has helped the students to understand the basic concept of handling and analysis of prescription and management of medication errors. It explains about the methods used to analyse the prescription.

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

- Understand how to analyze the prescription and understand the different calculation to be done to calculate the dose.
- Understand the prescribing pattern of the drugs.
- Understand the process of analysis, interpreting the data and report it.
- Get familiar with the abbreviation, medical terms used in the prescription.

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

COURSE COORDINATOR

  
HOD

  
PRINCIPAL

DR. JENISHA K

DR. PARTHASARATHY G

DR. PADMAA M PAARAKH





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e-mail: [pharmacyprincipal@theoxford.edu](mailto:pharmacyprincipal@theoxford.edu); [info@theoxford.edu](mailto:info@theoxford.edu);



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## COURSE ON PRESCRIPTION HANDLING, MANAGEMENT AND ANALYSIS OF PRESCRIPTION

(Course Code: PHA 2022-23)

### COMPLETION REPORT

The Department of Pharmacy practice, The Oxford college of Pharmacy, Bangalore, conducted a course on Prescription Handling, Management And Analysis Of Prescription (Course Code: PHA 2022-23) for the academic year 2022-23. 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 25 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 Friday and Saturday after college hours. Total 25 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 18-08-2023 and the participation certificate distributed to all 25 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

PRINCIPAL

DR. JENISHA K

DR. PARTHASARATHY G

DR. PADMAA M PAARAKH



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## COURSE ON MEDICATIONS YOU NEED TO KNOW 2022-23 (COURSE CODE: MNK 2022-23)

### NOTICE

Date: 02-01-2023

To

Notice Board

To be read in the class rooms

Course Coordinator - Ms. Surinder Kaur,

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on **Medications You Need To Know** for the academic year 2022-23, for the benefit of M.Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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 7<sup>th</sup> January 2023 and will be conducted after the college hours on Saturdays and Mondays. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B.Pharm, Pharm. D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Ms.Surinder Kaur, course coordinators on or before 6<sup>th</sup> January 2023.

*SKaur*  
COORDINATOR

Surinder Kaur

*Gururaj S Kulkarni*  
HOD

Dr Gururaj S Kulkarni

*P. Padmaa*  
PRINCIPAL

Dr Padmaa M. Paarakh



## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr Gururaj S Kulkarni Department of Pharmaceutics TOCP, Bangalore.
Program Coordinator	Ms. Surinder Kaur, Assistant professor, Department of Pharmaceutics, 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, 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.

## For Further Information Contact

Ms. Surinder Kaur  
Department of Pharmaceutics  
TOCP, Bangalore TOCP, Bangalore  
Email: surinderkr13@gmail.com

Course  
On

## “MEDICATION YOU NEED TO KNOW”



Organized by

## THE OXFORD COLLEGE OF PHARMACY

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

Duration: **30 hours**

Late date for Registration:-06/01/2023

Date of commencement:07/01/2023

Date of examination: After completion of  
30 hours classes.

## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e.,  
M.Pharm, B. Pharm, Pharm. D and Pharm.  
D (Post-Baccalaureate)

## REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Ms. Surinder Kaur Assistant Professor Department of Pharmaceutics. Phone : 8884970164

## STRUCTURE

- Course will be conducted for total **30 hours** after the college hours.
- Course will be conducted through Offline mode.
- Every Saturday and Monday. (offline).

## COURSE DESCRIPTION

The Department of Pharmaceutics, TOCP, Bangalore introduces a thirty hours course on Medications You Need To Know (Course Code: MNK 2022-23). This course offers the necessary knowledge of Medications in pharmacy and the importance of dispensing and handling of medicines in today's world.

## OBJECTIVES OF PROGRAM

- This course provides an overview about the uses and medication to get better knowledge about the medication safety.
- To understand the side effects / drug interactions / drug allergies / adverse effects of medications.
- To understand the prescription and over the counter medicines.
- To learn multi medication management.

## FINAL ASSESSMENT

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

## DURATION

- **Thirty hours.**

## OUTCOME

- Over the counter & prescription medicines
- Medication allergies
- Medications during pregnancy & lactation
- Multi medication management
- Drug resistance & multi drug resistance.
- Drugs acting on different health conditions & its safety
- Medication management in elderly & pediatric patients

## REGISTRATION PROCESS

- ☐ Contact your course coordinators and register.



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## COURSE ON MEDICATIONS YOU NEED TO KNOW 2022-23

(COURSE CODE: MNK 2022-23)

### REGISTRATION LIST

SI NO	Name of the student	Signature
1	KISHAN KRUPAKAR.M	
2	M.B TEJASWINI	
3	NAMAN KUMAR SETHI	
4	NAWAZ N	
5	SADIK AHMED BORBHUYAN	
6	TAHIR AZAD ZARGAR	
7	A.AKHIL REDDY	
8	A D NANDINI	
9	ABDUL AZEEZ A	
10	ABHISHEK BK	
11	ABRAR MAJEED MALIK	

COURSE COORDINATOR

Surinder Kaur

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M. Paarakh



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**Course in Medications you need to know 2022-23**

**(Course Code: MNK 22)**

**Syllabus**

Modules	Chapter/Topic
<b>Module 1</b>  <b>Understanding Medicines and What They Do?</b>	Liquids that are swallowed. Drops that are put into ears or eyes.
	Liquids that are swallowed. Drops that are put into ears or eyes.
	Creams, gels, or ointments that are rubbed onto the skin.
	Creams, gels, or ointments that are rubbed onto the skin.
	Injections (shots) or intravenous (inserted into a vein) medicines.
	Patches that are stuck to skin (called transdermal patches).
	Patches that are stuck to skin (called transdermal patches).
	Inhalers (like nasal sprays or asthma inhalers)
	Tablets that are placed under the tongue -sublingual tablets
	Tablets that are placed under the tongue -sublingual tablets
<b>Module 2</b>  <b>Tips to Avoid Medication Mistakes</b>	Find out the name of your medication.
	Ask questions about how to use the medication.
	Know what your medication is for.
	Know what your medication is for.
	Read medicine labels and follow directions.
	Read medicine labels and follow directions.
	Keep the list of your medications with you at all times.
	Keep the list of your medications with you at all times.
	Computerized Medication Box
Computerized Medication Box	
<b>Module 3</b>  <b>Managing the Benefits and</b>	Prescription and Over-the-Counter medication.
	Prescription and Over-the-Counter medication.
	Importance of taking medications with doctor's prescription



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<b>Risks of Medicines</b>	Importance of taking medications with doctor's prescription
	Monitor Your Medicines' Effects
	Read the Label and Follow Directions
	Benefits and risks of self-medication.
	Benefits and risks of self-medication.
	Benefits and disadvantages of taking multiple medicines
	Benefits and disadvantages of taking multiple medicines

COURSE COORDINATOR

Surinder Kaur

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M. Paarakh



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**COURSE ON MEDICATION YOU NEED TO KNOW 2022-23**

**(COURSE CODE: MNK2022-23)**

## SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	7.1.2023	SATURDAY	2:00-3:00 PM	INAUGURATION & MODULE 1	Dr. Vikram T
2	9.1.2023	MONDAY	4:30-5:30 PM	MODULE 1	Dr. Vikram T
3	14.1.2023	SATURDAY	2:00-3:00 PM	MODULE 1	Dr. Vikram T
4	16.1.2023	MONDAY	4:30-5:30 PM	MODULE 1	Dr. Vikram T
5	21.1.2023	SATURDAY	2:00-3:00 PM	MODULE 1	Dr. Vikram T
6	23.1.2023	MONDAY	4:30-5:30 PM	MODULE 1	Dr. Vikram T
7	28.1.2023	SATURDAY	2:00-3:00 PM	MODULE 1	Dr. Vikram T
8	30.1.2023	MONDAY	4:30-5:30 PM	MODULE 1	Dr. Vikram T
9	4.2.2023	SATURDAY	2:00-3:00 PM	MODULE 1	Dr. Vikram T
10	6.2.2023	MONDAY	4:30-5:30 PM	MODULE 1	Dr. Vikram T
11	11.2.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Ms. Uma Prabha
12	13.2.2023	MONDAY	4:30-5:30 PM	MODULE 2	Ms. Uma Prabha
13	20.2.2023	MONDAY	4:30-5:30 PM	MODULE 2	Ms. Uma Prabha
14	25.2.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Ms. Uma Prabha
15	27.2.2023	MONDAY	4:30-5:30 PM	MODULE 2	Ms. Uma Prabha
16	4.3.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Ms. Uma Prabha
17	6.3.2023	MONDAY	4:30-5:30 PM	MODULE 2	Ms. Uma Prabha
18	11.3.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Ms. Uma Prabha
19	13.3.2023	MONDAY	4:30-5:30 PM	MODULE 2	Ms. Uma Prabha
20	18.3.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Ms. Uma Prabha
21	20.3.2023	MONDAY	4:30-5:30 PM	MODULE 3	Mrs. Divya SK



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22	25.3.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Mrs.Divya SK
23	27.3.2023	MONDAY	4:30-5:30 PM	MODULE 3	Mrs.Divya SK
24	1.4.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Mrs.Divya SK
25	8.4.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Mrs.Divya SK
26	10.4.2023	MONDAY	4:30-5:30 PM	MODULE 3	Mrs.Divya SK
27	15.4.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Mrs.Divya SK
28	17.4.2023	MONDAY	4:30-5:30 PM	MODULE 3	Mrs.Divya SK
29	22.4.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Mrs.Divya SK
30	24.4.2023	MONDAY	4:30-5:30 PM	MODULE 3	Mrs.Divya SK
31.	29.04.2023	SATURDAY	2:00-3:00 PM	VALEDICTORY	Mrs.Divya SK

*S.Kim*

COORDINATOR

Surinder Kaur

*G. S. Kulkarni*

HOD

Dr Gururaj S Kulkarni

*P. Padma*

PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON MEDICATION YOU NEED TO KNOW 2022-23

COURSE CODE: MNK2022-23

### OUTCOME REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore- 560068, completed course on Medication you need to know 2022-23 (Course Code: MNK 2022-23) .11 students registered and the course was conducted for 30 hours. This course gave knowledge to the registrants about the basic awareness regarding the importance of Prescription medications, OTC, poly medication and general consideration of commonly used drugs. The course focused on enhancing the knowledge regarding the basic concepts and principle behind the selection of different drugs acting on different health conditions & its safety and multi medication management.

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

- Over the counter & prescription medicines.
- Medication allergies.
- Medications during pregnancy & lactation.
- Multi medication management.
- Drug resistance & multi drug resistance.
- Drugs acting on different health conditions & its safety
- Medication management in elderly & pediatric patients.

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

COORDINATOR

Surinder Kaur

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON MEDICATIONS YOU NEED TO KNOW 2022-23

(COURSE CODE: MNK 2022-23)

### COURSE COMPLETION REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, conducted a course on Medications you need to know (Course Code: MNK 2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basics of principles, regulations related to the Medications and its uses.

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 Mrs Surinder Kaur. Total 11 students were present. The inaugural function was summed up with the introductory lecture of the course by the coordinator Mrs Surinder Kaur.

A total 30 hours course had been conducted after college hours on Saturday and Monday. Total 11 students enrolled for this course. This course focuses on medication and their role in providing Protection against chronic diseases. The present course is devoted towards a better understanding of the uses, side effects, allergies, multi medication management of medications based on their pharmaceutical and therapeutic indications.

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 final results of module I, II, III and overall were analyzed. Approximately 82% students scored grade A (marks percentage-100%) in all the tests followed by 13% who scored grade B (marks percentage-90%) and 05 % scored grade C (marks percentage-80%) and 00 % scored grade D (marks percentage-70 and below %).

The performance of the students in the tests was found to be good. 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 was conducted on 29/04/2023 and the participation certificates were distributed to all 11 students by the Principal and Head of the Department Dr Guru Raj S Kulkarni who thanked Principal and management for providing best infrastructure for carrying out such courses. On Behalf of the department, he promised to carry out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, appreciated the enthusiasm of the students in this course and thanked the Department of Pharmaceutics and the course coordinator Mrs Surinder Kaur for conducting such courses.

  
COORDINATOR

Surinder Kaur

  
HOD

Dr Gururaj S Kulkarni

  
PRINCIPAL

Dr Padmaa M. Paarakh





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## COURSE ON FOOD REGULATIONS 2022-23 (COURSE CODE: CCFR 2022-23)

### NOTICE

To

Date: 02-01-2023

Notice Board

To be read in the class rooms

Course Coordinator - Ms. Surinder Kaur,

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on **Food Regulation** for the academic year 2022-23, for the benefit of M.Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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 7<sup>th</sup> January 2023 and will be conducted after the college hours on Saturdays and Mondays. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B.Pharm, Pharm. D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Ms. Surinder Kaur, course coordinators on or before 6<sup>th</sup> January 2023.

S Kaur

COORDINATOR

Surinder Kaur

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M. Paarakh



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



## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr Gururaj S Kulkarni Department of Pharmaceutics TOCP, Bangalore.
Program Coordinator	Ms. Surinder Kaur, Assistant professor, Department of Pharmaceutics, TOCP, Bangalore

## THE OXFORD COLLEGE OF PHARMACY

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## For Further Information Contact

Ms. Surinder Kaur  
Department of Pharmaceutics  
TOCP, Bangalore TOCP, Bangalore  
Email: surinderkr13@gmail.com

## Course On

# “FOOD REGULATION”



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:-06/01/2023**

**Date of commencement:07/01/2023**

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

## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e.,  
M.Pharm, B. Pharm, Pharm. D and Pharm.  
D (Post-Baccalaureate)

## REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Ms. Surinder Kaur Assistant Professor Department of Pharmaceutics. Phone : 8884970164

## STRUCTURE

- Course will be conducted for total **30 hours** after the college hours.
- Course will be conducted through Offline mode.
- Every Saturday and Monday. (offline).

## COURSE DESCRIPTION

The Department of Pharmaceutics, TOCP, Bangalore introduces a thirty hours course on Food Regulations (Course Code: CCFR 2022-23). This course offers the necessary knowledge of the food regulations.

## OBJECTIVES OF PROGRAM

- The objective of the course is to make available safe, pure, protect public health wholesome and nutritious food to the public
- Effective food standards and control systems are required to protect food production within the country as well as to facilitate trade with other nations. All food manufacturers are required to meet the given standards of quality and safety, and need to have their products regularly tested.

## FINAL ASSESSMENT

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

## DURATION

- **Thirty hours.**

## OUTCOME

- The importance of food safety and the role it plays in preventing foodborne illnesses.
- To identify and prevent potential food safety hazards, such as cross-contamination and improper storage.
- Learn about various types of food safety regulations and how to ensure compliance with them.
- Learn about license procurement.

## REGISTRATION PROCESS

- Contact course coordinators and register.



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COURSE ON FOOD REGULATIONS 2022-23

(COURSE CODE: CCFR2022-23)

## REGISTRATION LIST

SI NO	Name of the student	Signature
1	RAKSHITHA S	Rakshitha S
2	SADAF FAROOQ	Sadaf Farooq
3	SAHANA H.S	Sahana H.S
4	SAMARPITA NATH	Samarpita Nath
5	SANDRA S S	Sandra S.S
6	SANJANA	Sanjana
7	SAPNA	Sapna
8	SAVITHA S	Sayak Kuley
9	SAYAK KULEY	Sayak Kuley
10	SHAIK HUMAYUN	Shaik Humayun
11	SHAMITHA JAIN S A	Shamitha Jain S.A
12	SHOMOJIT DAS	Shomejit Das
13	SHRAVYA	Shravya
14	SILAMBARASAN	Silambarasan
15	SINCHANA URS	Sinchana URS
16	SNEHA R V	Sneha R.V
17	SNEHA BINU	Sneha binu
18	SONAM CHOEDON	Sonam Choedon
19	SWATHI JANA	Swathi Jana
20	TEJASHWINI N	Tejashwini N
21	THARUN K	Tharun K
22	THYAGARAJ. S	Thyagaraj S
23	TRISHA.L	Trisha L
24	VARSHITHA A	Varshitha A



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25	VARUN H R	Varun HR
26	VIDYA SHREE R	Vidhya shree R.
27	VINOD KUMAR	Vishal. A.
28	VISHAL.A	Vishal. A.
29	YASHASWINI M U	Yashaswini, MU
30	HARDEEK	Hardeek.
31	PRAVEEN A	Praveen. A.
32	PUNEET S	Puneet. S.
33	RAKESH KP	Rakesh. KP.
34	SHYLESH	Shylesh.

*SKaur*

**COURSE COORDINATOR**

Surinder Kaur

*G.S. Kulkarni*

**HOD**

Dr Gururaj S Kulkarni

*P. Padma*

**PRINCIPAL**

Dr Padmaa M. Paarakh




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**Course in Food Regulations 2022-23**  
(Course Code: CCFR22)

**Syllabus**

MODULES	TOPICS
<b>MODULE – 1</b> Introduction and background for food laws	Introduction and background for food laws
	Purpose of food legislation
	Purpose of food legislation
	Food additives
	Food additives
	Essential commodities Act 1955
	Food laws and awareness
	Food laws and awareness
	Documents and regulatory filing
	Documents and regulatory filing
<b>MODULE – 2</b> Intellectual property rights for food production	Intellectual property rights for food production
	Introduction and property rights
	Trademark In food industries
	Trademark In food industries
	Patents – novel process
	Patents – novel process
	Industrial designs
	Industrial designs
	Trade secrets
	Trade secrets
<b>MODULE – 3</b> Food Safety and its concept	Food Safety and its concept
	Role of government in food control
	Hygiene in food industries
	Hygiene in food industries
	Compliance with food legislation
	Compliance with food legislation
	Public health and food laws
	Public health and food laws
	Regulatory prospects of GMP
Regulatory prospects of GMP	

  
COURSE COORDINATOR  
Surinder Kaur

HOD  
  
Dr Gururaj S Kulkarni

  
PRINCIPAL  
Dr Padmaa M. Paarakh



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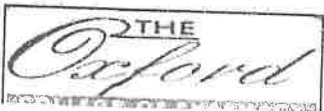
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**COURSE ON FOOD REGULATIONS 2022-23**

**(COURSE CODE: CCFR2022-23)**

## SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	7.1.2023	SATURDAY	2:00-3:00 PM	INAUGURATION & MODULE 1	Mrs.UMA PRABHA
2	9.1.2023	MONDAY	4:00-5:00 PM	MODULE 1	Mrs.UMA PRABHA
3	14.1.2023	SATURDAY	2:00-3:00 PM	MODULE 1	Mrs.UMA PRABHA
4	16.1.2023	MONDAY	4:00-5:00 PM	MODULE 1	Mrs.UMA PRABHA
5	21.1.2023	SATURDAY	2:00-3:00 PM	MODULE 1	Mrs.UMA PRABHA
6	23.1.2023	MONDAY	4:00-5:00 PM	MODULE 1	Mrs.UMA PRABHA
7	28.1.2023	SATURDAY	2:00-3:00 PM	MODULE 1	Mrs.UMA PRABHA
8	30.1.2023	MONDAY	4:00-5:00 PM	MODULE 1	Mrs.UMA PRABHA
9	4.2.2023	SATURDAY	2:00-3:00 PM	MODULE 1	Mrs.UMA PRABHA
10	6.2.2023	MONDAY	4:00-5:00 PM	MODULE 1	Mrs.UMA PRABHA
11	11.2.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Mrs.DIVYA SK
12	13.2.2023	MONDAY	4:00-5:00 PM	MODULE 2	Mrs.DIVYA SK
13	20.2.2023	MONDAY	4:00-5:00 PM	MODULE 2	Mrs.DIVYA SK
14	25.2.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Mrs.DIVYA SK
15	27.2.2023	MONDAY	4:00-5:00 PM	MODULE 2	Mrs.DIVYA SK
16	4.3.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Mrs.DIVYA SK
17	6.3.2023	MONDAY	4:00-5:00 PM	MODULE 2	Mrs.DIVYA SK
18	11.3.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Mrs.DIVYA SK
19	13.3.2023	MONDAY	4:00-5:00 PM	MODULE 2	Mrs.DIVYA SK
20	18.3.2023	SATURDAY	2:00-3:00 PM	MODULE 2	Mrs.DIVYA SK
21	20.3.2023	MONDAY	4:00-5:00 PM	MODULE 3	Dr. Vikram T



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22	25.3.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Dr. Vikram T
23	27.3.2023	MONDAY	4:00-5:00 PM	MODULE 3	Dr. Vikram T
24	1.4.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Dr. Vikram T
25	8.4.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Dr. Vikram T
26	10.4.2023	MONDAY	4:00-5:00 PM	MODULE 3	Dr. Vikram T
27	15.4.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Dr. Vikram T
28	17.4.2023	MONDAY	4:00-5:00 PM	MODULE 3	Dr. Vikram T
29	22.4.2023	SATURDAY	2:00-3:00 PM	MODULE 3	Dr. Vikram T
30	22.4.2023	SATURDAY	3:00-4:00 PM	MODULE 3	Dr. Vikram T
31	24.4.2023	MONDAY	4:00-5:00 PM	VALEDICTORY	Dr. Vikram T

  
COORDINATOR

Surinder Kaur

  
HOD

Dr Gururaj S Kulkarni

  
PRINCIPAL

Dr Padmaa M. Paarakh



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**COURSE ON FOOD REGULATIONS 2022-23**  
**(COURSE CODE: CCFR2022-23)**

**OUTCOME REPORT**

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore- 560068, completed course on Food Regulations 2022-23 (Course Code: CCFR2022-23). 34 students registered and the course was conducted for 30 hours. This course gave knowledge to the registrants about the basic awareness regarding the importance of food regulations and to avoid the food adulterations. The course focused on enhancing the knowledge regarding the basic concepts and principle behind the selection of different food additives used in development and formulations in the food industries.

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

- The importance of food safety and the role it plays in preventing foodborne illnesses.
- To identify and prevent potential food safety hazards, such as cross-contamination and improper storage.
- Learn about various types of food safety regulations and how to ensure compliance with them.
- Learn about license procurement.

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

  
COORDINATOR

Surinder Kaur

  
HOD

Dr Gururaj S Kulkarni

  
PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON FOOD REGULATIONS 2022-23

(COURSE CODE: CCFR2022-23)

### COMPLETION REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, conducted a course on Food Regulations (Course Code: CCFR2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basics of principles, regulations related to the Food regulations.

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 Mrs Surinder Kaur. Total 34 students were present. The inaugural function was summed up with the introductory lecture of the course by the coordinator Mrs Surinder Kaur.

A total 30 hours course had been conducted after college hours on Saturday and Monday. Total of 34 students were enrolled for this course. This course provides registrants to have a thorough knowledge about the food regulations that will be quite helpful in the further studies and research activities avoid use of adulterants in the food manufacturing industries. The course focuses on the basic food law intended to assure consumers that foods are pure and wholesome, safe to eat, and produced under sanitary conditions. Generally, food law prohibits importation and distribution of food products that are adulterated or have labels that are false or misleading in any context.

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 final results of module I, II, III and overall were analysed. Approximately 71.31% students scored grade A (marks percentage-100%) in all the tests followed by 19.10% who scored grade B (marks percentage-90%) and 00 % scored grade C (marks percentage-80%) and 00 % scored grade D (marks percentage-70 and below %).

The performance of the students in the tests was found to be good. About seventy 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 was conducted on 24/04/2023 and the participation certificates were distributed to all 34 students by the Principal and Head of the Department Dr Guru Raj S Kulkarni who thanked Principal and management for providing best infrastructure for carrying out such courses. On Behalf of the department, he promised to carry out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, appreciated the enthusiasm of the students in this course and Congratulate the Department of Pharmaceutics and the course coordinator Mrs Surinder Kaur for conducting such courses.

SJK

COORDINATOR

Surinder Kaur

GJK

HOD

Dr Gururaj S Kulkarni

P. Paarakh

PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON MEDICAL DEVICES 2022-23 (COURSE CODE: CCMD2022-23)

### NOTICE

Date: 01-08-2023

To

Notice Board

To be read in the class rooms

Course Coordinator - Ms. Surinder Kaur,

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on **Medical Devices** for the academic year 2022-23, for the benefit of M.Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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 2023 and will be conducted after the college hours on Saturday and Monday. The eligibility criteria include students pursuing Pharmacy degree, that is M.Pharm, B.Pharm, Pharm. D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Ms.Surinder Kaur, course coordinators on or before 4<sup>th</sup> August 2023.

COORDINATOR

Surinder Kaur

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M. Paarakh



## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bangalore.
HOD	Dr Gururaj S Kulkarni Department of Pharmaceutics TOCP, Bangalore.
Program Coordinator	Ms. Surinder Kaur, Assistant professor, Department of Pharmaceutics, TOCOP, Bangalore

# Course On “MEDICAL DEVICES ”



## Organized by **THE OXFORD COLLEGE OF PHARMACY**

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

**Duration: 30 hours**

**Late date for Registration:-04/08/2023**

**Date of commencement:05/08/2023**

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

## 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., M.Pharm,B. Pharm, Pharm. D and Pharm. D (Post-Baccalaureate)

## For Further Information Contact

Ms. Surinder Kaur  
Department of Pharmaceutics  
TOCP, Bangalore TOCP, Bangalore  
Email: surinderkr13@gmail.com

## REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy Bangalore-68
Contact person for registration	Ms. Surinder Kaur Assistant Professor Department of Pharmaceutics.

### STRUCTURE

- Course will be conducted for total **30 hours** after the college hours.
- Course will be conducted through Offline mode.
- Every Saturday and Monday. (offline).

### COURSE DESCRIPTION

The Department of Pharmaceutics, TOCP, Bangalore introduces a thirty hours course on Medical Devices (Course Code: CCMD 2022-23). This course offers the necessary knowledge of Medical device regulation, application of risk management to medical devices.

### OBJECTIVES OF PROGRAM

- Medical device and in vitro diagnostic (IVD), classification and types of medical devices.
- Medical device and testing, personnel involved, quality assurance, quality management system.
- Biocompatibility studies, clinical investigation, risk management, international practices.
- Manufacturing license, inspection, fees, import, export.

### FINAL ASSESSMENT

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

### DURATION

- **Thirty hours.**

### OUTCOME

- Classification of medical devices
- Labelling of medical devices and in vitro diagnostics
- Standards of medical device, quality assurance, and testing
- Regulatory requirements of biocompatibility of medical devices
- Obtaining licence to manufacture a medical device.
- Handling of Medical devices.

### REGISTRATION PROCESS

- ☐ Contact your course coordinators and register.



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## COURSE ON MEDICAL DEVICES 2022-23

(COURSE CODE:CC MD2022-23)

### REGISTRATION LIST

SI NO	Name of the student	Signature
1	Sreelakshmi S	
2	Swetha G	
3	Adithya J	
4	Aparna O M	
5	Arroju Hrithik	
6	Balakrishnan	
7	Gowdham T	
8	Harsha	
9	Hemanth Kumar P	
10	Madhan Prasad	
11	Naveen Kumar C	
12	Pavithran	
13	Prakash R	
14	Ramya A	

COURSE COORDINATOR

Surinder Kaur

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M. Paarakh



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**Course in Medical Devices 2022-23**

**(Course Code: CCMD22)**

**Syllabus**

MODULES	TOPICS
<b>MODULE – I</b> Introduction to Medical Devices	Introduction to Medical Devices
	Introduction to Medical Devices
	Classification of Medical Devices
	Classification of Medical Devices
	Applications of Medical Devices
	Applications of Medical Devices
	Advantages of Medical Devices
	Advantages of Medical Devices
	Disadvantages of Medical Devices
	Disadvantages of Medical Devices
<b>MODULE – 2</b> Regulations of Medical devices in terms of Safety	Regulations of Medical devices in terms of Safety
	Regulations of Medical devices in terms of Safety
	Government Regulations of Medical devices
	Government Regulations of Medical devices
	Government Regulations of Medical devices in India
	Government Regulations of Medical devices in India
	Regulations for Defective Medical Devices
	Regulations for Defective Medical Devices
	Cost and prices of Medical Devices
	Cost and prices of Medical Devices



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**Course in Medical Devices 2022-23**  
**(Course Code:CC MD22)**  
**Syllabus**

MODULES	TOPICS
<b>MODULE – 3</b> Types of Medical Devices	Types of Medical Devices
	Medical device safety
	Instruments
	Machines
	Implants
	Soft ware
	Invitro reagents
	Labelling of medical devices
	Packaging of medical devices
	Pre marketing approvals

  
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## COURSE ON MEDICAL DEVICES 2022-23

COURSE CODE: MD2022-23)

### SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
1	05.08.2023	Saturday	1:30 – 2:30PM	INAUGURATION & MODULE 1	Mrs. Uma Prabha
2	05.08.2023	Saturday	2:30 -3:30PM	MODULE 1	Mrs. Uma Prabha
3	07.08.2023	Monday	4:00- 5:00PM	MODULE 1	Mrs. Uma Prabha
4	12.08.2023	Saturday	1:30 – 2:30PM	MODULE 1	Mrs. Uma Prabha
5	12.08.2023	Saturday	2:30 -3:30PM	MODULE 1	Mrs. Uma Prabha
6	14.08.2023	Monday	4:00- 5:00PM	MODULE 1	Mrs. Uma Prabha
7	19.08.2023	Saturday	1:30 – 2:30PM	MODULE 1	Mrs. Uma Prabha
8	19.08.2023	Saturday	2:30 -3:30PM	MODULE 1	Mrs. Uma Prabha
9	21.08.2023	Monday	4:00- 5:00PM	MODULE 1	Mrs. Uma Prabha
10	26.08.2023	Saturday	1:30 – 2:30PM	MODULE 1	Mrs. Uma Prabha
11	26.08.2023	Saturday	2:30 -3:30PM	MODULE 2	Mrs.Divya S K
12	28.08.2023	Monday	4:00- 5:00PM	MODULE 2	Mrs.Divya S K
13	02.09.2023	Saturday	1:30 – 2:30PM	MODULE 2	Mrs.Divya S K
14	02.09.2023	Saturday	2:30 -3:30PM	MODULE 2	Mrs.Divya S K
15	04.09.2023	Monday	4:00- 5:00PM	MODULE 2	Mrs.Divya S K
16	09.09.2023	Saturday	1:30 – 2:30PM	MODULE 2	Mrs.Divya S K
17	09.09.2023	Saturday	2:30 -3:30PM	MODULE 2	Mrs.Divya S K
18	11.09.2023	Monday	4:00- 5:00PM	MODULE 2	Mrs.Divya S K
19	16.09.2023	Saturday	1:30 – 2:30PM	MODULE 2	Mrs.Divya S K
20	16.09.2023	Saturday	2:30 -3:30PM	MODULE 2	Mrs.Divya S K
21	18.09.2023	Monday	4:00- 5:00PM	MODULE 3	Dr. Vikram T
22	23.09.2023	Saturday	1:30 – 2:30PM	MODULE 3	Dr. Vikram T
23	23.09.2023	Saturday	2:30 -3:30PM	MODULE 3	Dr. Vikram T
24	25.09.2023	Monday	4:00- 5:00PM	MODULE 3	Dr. Vikram T
25	30.09.2023	Saturday	1:30 – 2:30PM	MODULE 3	Dr. Vikram T
26	30.09.2023	Saturday	2:30 – 3:30PM	MODULE 3	Dr. Vikram T
27	07.10.2023	Saturday	1:30 – 2:30PM	MODULE 3	Dr. Vikram T
28	07.10.2023	Saturday	2:30 -3:30PM	MODULE 3	Dr. Vikram T



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29	09.10.2023	Monday	4:00- 5:00PM	MODULE 3	Dr. Vikram T
30	21.10.2023	Saturday	1:30 – 2:30PM	MODULE 3	Dr. Vikram T
31	21.10.2023	Saturday	4:00- 5:00PM	VALEDICTORY	Dr. Vikram T

  
COORDINATOR

Surinder Kaur

  
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## COURSE ON MEDICAL DEVICES 2022-23

(COURSE CODE: CCMD2022-23)

### OUTCOME REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore- 560068, completed course in Medication you need to know 2022-23 (Course Code: CCMD2022-23) . 14 students registered and the course was conducted for 30 hours. This course gave knowledge to the registrants about the basic awareness regarding the importance of applications of Medical Devices, Regulations of Medical devices in terms of Safety, Government Regulations of Medical devices

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

- Classification of medical devices
- Labelling of medical devices and in vitro diagnostics
- Standards of medical device, quality assurance, and testing
- Regulatory requirements of biocompatibility of medical devices
- Obtaining licence to manufacture a medical device.
- Handling of Medical devices

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

  
COORDINATOR

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## COURSE ON MEDICAL DEVICES 2022-23

(COURSE CODE: CCMD2022-23)

### COMPLETION REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, conducted a course on Medical Devices (Course Code: CCMD 2022-23) for the academic year 2022-23. The course was intended to impart knowledge to the students about the basics of principles and techniques related the manufacture of Medical Devices, their applications, and regulations.

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 Mrs Surinder Kaur. Total 14 students were present. The inaugural function was summed up with the introductory lecture of course by the course coordinator Mrs Surinder Kaur.

A total 30 hours course had been conducted after college hours on Saturday and Monday. Total of 14 students enrolled for this course. 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.

The final results of module I, II, III and overall was analysed. Approximately 82.5% students scored grade A (marks percentage-100%) in all the tests followed by 17.5% scored grade B (marks percentage-90%) and 00% scored grade C (marks percentage-80%) and 00% scored grade D (marks percentage-70 and below %).

The performance of the students in the tests was found to be excellent. About eighty two 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 21/10/2023 and the participation certificates were distributed to all 14 students by the Principal and Head of the Department Dr Guru Raj S Kulkarni who thanked Principal and management for providing best infrastructure for carrying out such courses. On Behalf of the department, he promised to carry out such courses in future also. The guest of the valedictory function, Dr Padmaa M Paarakh, Principal, appreciated the enthusiasm of the students in this course and thanked the Department of Pharmaceutics and the course coordinator Mrs Surinder Kaur for the efforts in conducting the courses.

**COORDINATOR**

Surinder Kaur

**HOD**

Dr Gururaj S Kulkarni

**PRINCIPAL**

Dr Padmaa M. Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru -560 068

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e-mail: [pharmacyprincipal@theoxford.edu](mailto:pharmacyprincipal@theoxford.edu); [info@theoxford.edu](mailto:info@theoxford.edu);



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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)

Accredited by NAAC and International Accreditation Organization (IAO)

## COURSE ON POLYMERS AND ITS SIGNIFICANCE IN NOVEL DRUG DELIVERY SYSTEM

(Course Code: PNDDES 2022-23)

### Notice

Date: 01-07-2023

To

**Notice Board**

To be read in the class rooms

Course Coordinator -Mrs. Divya S Kumar

To be filed,

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on **Polymers and Its Significance in Novel Drug Delivery System** for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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>th</sup> July 2023 and will be conducted after the college hours on Wednesday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Mrs. Divya S Kumar, course coordinator on or before 7<sup>th</sup> July 2023.

**COURSE COORDINATOR**

Mrs Divya S Kumar

**HOD**

Dr Gururaj S Kulkarni

**PRINCIPAL**

Dr Padmaa M Paarakh



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



## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD	Dr Gururaj S Kulkarni, Dept of Pharmaceutics TOCP, Bengaluru.
Program Coordinator	Mrs. Divya S kumar Department of Pharmaceutics TOCP, Bengaluru.

### For Further Information Contact

**Mrs. Divya S Kumar**

Assistant Professor,

Department of Pharmaceutics,

TOCP, Bengaluru

Email:

divya.skumar.1984@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., M.Pharm, B. Pharm, Pharm. D and Pharm. D(Post –Baccalaureate).

Course  
On

**“POLYMERS AND ITS  
SIGNIFICANCE IN NOVEL  
DRUG DELIVERY SYSTEM”**



Organized by

**THE OXFORD COLLEGE  
OF PHARMACY**

Department of Pharmaceutics,

1st Main Rd., Hongasandra, Bengaluru,

Karnataka -560 068

Duration: **30 hours**

Last date for registration:

7<sup>th</sup> July 2023

Date of commencement:

8<sup>th</sup> July 2023

Date of examination: After completion  
of 30 hrs.

## REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact person for registration	Mrs. Divya S Kumar 9483958121

### COURSE DESCRIPTION

The Department of Pharmaceutics, TOCP, Bengaluru introduces thirty hours course on "Polymers and its significance in Novel Drug Delivery System" (Course Code: PNDDDS 2022-23). The course focuses on the various polymers and its significance in the development of different Novel Drug Delivery System as advancement of drug delivery technology.

### OBJECTIVES OF THE PROGRAM

- The course aims to create a basic awareness about the significance of different polymers used in the development of Novel Drug Delivery System.
- To impart knowledge regarding the basic concept & principle behind the selection of different polymers used in development of Novel Drug Delivery System.

### REGISTRATION PROCESS

Contact your course coordinators and register.

### FINAL ASSESSMENT

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

**DURATION**  
**Thirty hours**

### OUTCOME

- Appreciate and comprehend significance of different polymers.
- Understand the principle behind the selection of polymers alone or in combination for the development of different novel drug delivery system for improving the efficacy of drugs.
- Appreciate the formulation of various Novel Drug Delivery System using polymers and its effect in improving & controlling the delivery of medications.

### STRUCTURE

- Course will be conducted for total 30 hours after the college hours.
- Course will be conducted through Offline mode.
- Every Wednesday and Saturday (offline).



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## COURSE ON POLYMERS AND ITS SIGNIFICANCE IN NOVEL DRUG DELIVERY SYSTEM

(Course Code: PNDDS 2022-23)

### LIST OF STUDENTS

SL.NO	NAME OF THE STUDENT	SIGNATURE
1	ABIGAIL N MOZHUI	Abigail
2	ANIRBAN DEBNATH	Anirban
3	ASHISH ABHRAHAM	Ashish
4	DEBJIT BHAKAT	Debjit
5	DEEPTI CHOUDHARY	Deepti
6	DIMPLE G	Dimple
7	GANANESWAR RAO S	Gananeshwar
8	HEMA NS	Hema
9	JEFFY Y	Jeffy
10	KEERTHANA C	Keerthana
11	PADMASHREE M	Padmashree
12	RANJITHA REDDY S	Ranjitha Reddy
13	SHASHIKALA DM	Shashikala
14	SHERLIN HEPZIBAH S	Sherlin
15	SUBHASHINI N	Subhashini
16	SYED ALSABA HUSSAIN	Syed Alsaba
17	TINA LALI.Y	Tina
18	VINISHA R	Vinisha
19	ZOMBARK AR MUSKAN	Zombark Ar Muskan

Course Coordinator

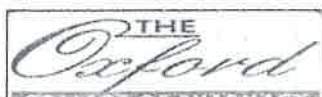
Mrs Divya S Kumar

  
HOD

Dr Gururaj S Kulkarni

  
Principal

Dr Padmaa M Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru -560 068

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**COURSE ON POLYMERS AND ITS SIGNIFICANCE IN NOVEL DRUG DELIVERY SYSTEM  
(COURSE CODE: PND DS 2022-23)**

**SESSION PLAN**

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
				Inauguration	
1	08.07.23	SATURDAY	1:30-2:30	Module I	Dr Gururaj S Kulkarni
2	08.07.23	SATURDAY	2.30-3.30	Module I	Dr Gururaj S Kulkarni
3	12.07.23	WEDNESDAY	4:30-5:30	Module I	Dr Gururaj S Kulkarni
4	15.07.23	SATURDAY	1:30-2:30	Module I	Dr Gururaj S Kulkarni
5	15.07.23	SATURDAY	2.30-3.30	Module I	Dr Gururaj S Kulkarni
6	19.07.23	WEDNESDAY	4:30-5:30	Module I	Dr Gururaj S Kulkarni
7	22.07.23	SATURDAY	1:30-2:30	Module I	Dr Gururaj S Kulkarni
8	22.07.23	SATURDAY	2.30-3.30	Module I	Dr Gururaj S Kulkarni
9	26.07.23	WEDNESDAY	4:30-5:30	Module I	Dr Gururaj S Kulkarni
10	02.08.23	WEDNESDAY	4:30-5:30	Module I	Dr Gururaj S Kulkarni
11	05.08.23	SATURDAY	1:30-2:30	Module I	Dr Vikram T
12	05.08.23	SATURDAY	2.30-3.30	Module I	Dr Vikram T
13	09.08.23	WEDNESDAY	4:30-5:30	Module I	Dr Vikram T
14	12.08.23	SATURDAY	1:30-2:30	Module I	Dr Vikram T
15	12.08.23	SATURDAY	2.30-3.30	Module I	Dr Vikram T
16	16.08.23	WEDNESDAY	4:30-5:30	Module I	Dr Vikram T
17	19.08.23	SATURDAY	1:30-2:30	Module I	Dr Vikram T
18	19.08.23	SATURDAY	2.30-3.30	Module I	Dr Gururaj S Kulkarni
19	23.08.23	WEDNESDAY	4:30-5:30	Module II	Dr Gururaj S Kulkarni
20	26.08.23	SATURDAY	1:30-2:30	Module II	Dr Gururaj S Kulkarni
21	26.08.23	SATURDAY	2.30-3.30	Module II	Dr Vikram T



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22	30.08.23	WEDNESDAY	4:30-5:30	Module II	Dr Vikram T
23	02.09.23	SATURDAY	1:30-2:30	Module II	Dr Vikram T
24	02.09.23	SATURDAY	2.30-3.30	Module II	Dr Vikram T
25	06.09.23	WEDNESDAY	4:30-5:30	Module II	Dr Vikram T
26	09.09.23	SATURDAY	1:30-2:30	Module II	Dr Vikram T
27	09.09.23	SATURDAY	2.30-3.30	Module II	Dr Vikram T
28	13.09.23	WEDNESDAY	4:30-5:30	Module II	Dr Vikram T
29	16.09.23	SATURDAY	1:30-2:30	Module II	Dr Vikram T
30	16.09.23	SATURDAY	2.30-3.30	Module II	Dr Vikram T
31	19.09.23	TUESDAY	4:30-5:30	Valedictory	Dr Gururaj S Kulkarni

COORDINATOR

Mrs. Divya S Kumar

HOD

Dr Gururaj S Kulkarni

P. Padma  
PRINCIPAL

Dr. Padmaa M. Paarakh



No.6/9, 1<sup>st</sup> Cross, Begur Road, Hongasandra, Bengaluru -560 068

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## COURSE ON POLYMERS AND ITS SIGNIFICANCE IN NOVEL DRUG DELIVERY SYSTEM

(Course Code: PNDDS 2022-23)

### OUTCOME REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore- 560068, completed Course on Polymers and its significance in Novel Drug Delivery System (Course Code: PNDDS 2022-23). 19 students were registered and the course was conducted for 30 hours. This course trained registrants to have a basic awareness about the importance of different polymers used in the development of Novel Drug Delivery System. The course focused on enhancing the knowledge regarding the basic concepts and principle behind the selection of different polymers used in development of Novel Drug Delivery System.

#### Outcome:

At the end of this course students were able to

- Appreciate and comprehend significance of different polymers.
- Understand the principle behind the selection of polymers alone or in combination for the development of different novel drug delivery system for improving the efficacy of drugs.
- Appreciate the formulation of various Novel Drug Delivery System using polymers and its effect in improving & controlling the delivery of medications.

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

COORDINATOR

Mrs. Divya S Kumar

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padmaa M. Paarakh



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## COURSE ON POLYMERS AND ITS SIGNIFICANCE IN NOVEL DRUG DELIVERY SYSTEM (Course Code: PNDDS 2022-23) COMPLETION REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, conducted a course on "Polymers and its significance in Novel Drug Delivery System" (Course Code: PNDDS 2022-23) for the academic year 2022-23. The course was intended to impart knowledge about the importance of different polymers used in the development of Novel Drug Delivery System. They will also be able to learn the basic concepts and principle behind the selection of different polymers used in development of Novel Drug Delivery System.

The course was started with an inaugural function started by welcoming the Principal Dr Padmaa M. Paarakh. The function was conducted in Room no 507, and all the participants were introduced by Course coordinator Mrs. Divya S Kumar, Course Coordinator. Total 19 students were present. Our Principal had emphasized on the importance of doing such courses for the betterment of their future. The inaugural function has been summed up with the introductory lecture by Dr Gururaj S Kulkarni.

A total of thirty hours course had been conducted after the college hours on Wednesday & Saturday. Total 19 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 analyzed. Approximately 64.9 % students scored grade A (marks percentage-95-100%) in all the tests followed by 24.55 % who scored grade B (marks percentage-90-94 %) and 10.52 % 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 eighty percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and exploring themselves through the interactive sessions conducted.

The valedictory function has been conducted on 19/09/2023 and course participation certificate were distributed to all 19 students by the Principal Dr Padmaa M Paarakh and Head of the Department Dr Gururaj S Kulkarni. Dr. Gururaj S Kulkarni, thanked Principal 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, Bangalore had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmaceutics and the course coordinator Mrs. Divya S Kumar for successful completion of the course.

COURSE COORDINATOR

Mrs. Divya S Kumar

HOD

Dr. Gururaj S Kulkarni

PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON KNOWLEDGE ENRICHMENT ON UNIT PROCESSING OF TABLETS

(Course Code: UPT 2022-23)

### Notice

Date: 01-04-2023

To

#### Notice Board

To be read in the class rooms

Course Coordinator -Mrs. Divya S Kumar

To be filed.

The Oxford College of Pharmacy, Bangalore introduces a **30 hours** course on **Knowledge Enrichment on Unit Processing of Tablets** for the academic year 2022-23, for the benefit of M. Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) 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>th</sup> April 2023 and will be conducted after the college hours on Thursday and Saturday. The eligibility criteria include students pursuing Pharmacy degree, that is M. Pharm, B. Pharm, Pharm. D and Pharm D (Post Baccalaureate) students. Interested students can enroll with Mrs. Divya S Kumar, course coordinator on or before 6<sup>th</sup> April 2023.

COURSE COORDINATOR

Mrs Divya S Kumar

HOD

Dr Gururaj S Kulkarni

P. Padma  
PRINCIPAL

Dr Padmaa M Paarakh



## Organizing Committee

Chairman	Dr. Padmaa M Paarakh, Principal, TOCP, Bengaluru.
HOD	Dr Gururaj S Kulkarni, HOD Dept of Pharmaceutics TOCP, Bengaluru.
Course Coordinators	Mrs. Divya S Kumar, Dept of Pharmaceutics TOCP, Bengaluru.

## For Further Information Contact

**Mrs. Divya S Kumar**  
Assistant Professor,  
Department of Pharmaceutics,  
TOCOP, Bengaluru  
Email:  
divya.skumar.1984@gmail.com

## THE OXFORD COLLEGE OF PHARMACY

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## ELIGIBILITY CRITERIA

Students Pursuing Pharmacy Degree i.e., M.Pharm, B. Pharm, Pharm. D and Pharm. D (Post-Baccalaureate)

## Course On

## “KNOWLEDGE ENRICHMENT ON UNIT PROCESSING OF TABLETS ”



Organized by

## THE OXFORD COLLEGE OF PHARMACY

Department of Pharmaceutics,  
1st Main Rd., Hongasandra, Bengaluru,  
Karnataka -560 068

Duration: **30 hours**

Last date for registration:

6<sup>th</sup> April 2023

Date of commencement:

8<sup>th</sup> April 2023

Final Evaluation : After completion of 30 hrs.

## REGISTRATION

Registration Fees	NIL It is a free course offered by The Oxford College of Pharmacy, Bengaluru-68
Contact person for registration	Mrs. Divya S Kumar, 9483958121

### COURSE DESCRIPTION

The Department of Pharmaceutics, TOCP, Bengaluru introduces a thirty hours course on “Knowledge Enrichment on Unit Processing of Tablets” (Course Code: UPT 2022-23). This course focuses on the various unit operational concepts with basic awareness about its significance in the manufacturing of tablets.

### DURATION

Thirty hours

### OBJECTIVES OF THE PROGRAM

- The course aims to create a basic awareness about the significance of different unit operations used in the manufacturing of tablets.
- To enhance the knowledge regarding the basic concept & principle behind the unit operations which will in turn help them to understand the formulation process of tablet dosage form .

### STRUCTURE

- Course will be conducted for total **30 hours** after the college hours.
- Course will be conducted through Offline mode.
- Every Thursday and Saturday. (offline).

### OUTCOME

- Appreciate and comprehend significance of excipients selection in quality of dosage form.
- Understand the processes involved in pharmaceutical manufacturing process of tablets.
- Appreciate various unit operations used in pharmaceutical industries for manufacturing of solid dosage form.

### REGISTRATION PROCESS

Contact your course coordinator and register.

### FINAL ASSESSMENT

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





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## COURSE ON KNOWLEDGE ENRICHMENT ON UNIT PROCESSING OF TABLETS

(Course Code: UPT 2022-23)

### LIST OF STUDENTS

SL.NO	NAME OF THE STUDENT	SIGNATURE
1	ABIGAIL N MOZHUI	Abigail P
2	ANIRBAN DEBNATH	Anirban
3	ASHISH ABHRAHAM	Ashish
4	DEBJIT BHAKAT	Debjit
5	DEEPTI CHOUDHARY	Deepti
6	DIMPLE G	Dimple
7	GANANESWAR RAO S	Gananeshwar
8	HEMA NS	Hema
9	JEFFY Y	Jeffy
10	KEERTHANA C	Keerthana C.
11	PADMASHREE M	Padmashree
12	RANJITHA REDDY S	Ranjitha Reddy S
13	SHASHIKALA DM	Shashikala DM
14	SHERLIN HEPZIBAH S	Sherlin
15	SUBHASHINI N	Subhashini
16	SYED ALSABA HUSSAIN	Syed Alsaba
17	TINA LALLY	Tina
18	VINISHA R	Vinisha
19	ZOMBARKAR MUSKAN	Zombarkar

Course Coordinator

Mrs Divya S Kumar

HOD

Dr Gururaj S Kulkarni

P. Padma  
Principal

Dr Padmaa M Paarakh



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**Value Added Course in Knowledge Enrichment on Unit Processing of Tablets 2022-23**

(Course Code: UPT)

Syllabus

MODULE	CHAPTER	TOPIC
Introduction	Introduction to the Program	
Module 1	Introduction to Tablet Manufacturing Processing:	Introduction to solid dosage form-tablets, Granulation Techniques, Types of Tablets, Selection of Excipients
		Materials for construction of Equipment
	Size Reduction:	Objectives, Mechanisms & Laws governing size reduction, factors affecting size reduction.
		Principles, construction, working, uses, merits and demerits of Hammer mill, ball mill, fluid energy mill.
	Size Separation:	Objectives, applications & mechanism of size separation, official standards of powders, sieves,
		Size separation principles, construction, working, uses, merits and demerits of Sieve shaker, cyclone separator, Air separator, Bag filter
Practical & Demonstration 1:	To reduce the size of given sample using ball mill and to determine its efficiency	
	To determine the particle size determination of given sample	
Module 2	Mixing:	Objectives, applications & factors affecting mixing, Theory of mixing, solid-solid, solid-liquid, liquid-liquid mixing
		Principles, Construction, Working, uses, Merits and Demerits of V-cone blender, Double cone blender, twin shell blender, ribbon blender,
		Sigma blade mixer, planetary mixers, zig-zag mixers
	Drying:	Objectives, applications & mechanism of drying process, factors affecting drying, classification & types of dryers,
Measurements & applications of Equilibrium Moisture		



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		content, rate of drying curve.
		Principles, construction, working, uses, merits and demerits of Tray dryer, drum dryer, vacuum dryer
	<b>Coating:</b>	Types of coating, coating materials, formulation of coating composition,
		Methods of coating and defects in coating.
		Equipment employed
	<b>Practical &amp; Demonstration 2:</b>	To construct the rate of drying curve & percentage loss on drying
		To determine the mixing efficiency of the propeller in different positions
		To demonstrate the coating of tablets

COORDINATOR

Mrs. Divya S Kumar

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

Dr Padma M. Paarakh



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# The Oxford College of Pharmacy

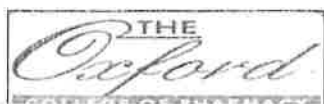
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Approved by Pharmacy Council of India, New Delhi)

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## COURSE ON KNOWLEDGE ENRICHMENT ON UNIT PROCESSING OF TABLETS (COURSE CODE: UPT 2022-23) SESSION PLAN

SL.NO	DATE	DAY	TIME	MODULE	FACULTY
				Inauguration	
1	08-04-2023	SATURDAY	1:30-2:30	Module I	Mrs Divya S Kumar
2	08-04-2023	SATURDAY	2:30-3:30	Module I	Mrs Divya S Kumar
3	13-04-2023	THURSDAY	4:00-5:00	Module I	Mrs Divya S Kumar
4	13-04-2023	THURSDAY	5:00-6:00	Module I	Mrs Divya S Kumar
5	15-04-2023	SATURDAY	1:30-2:30	Module I	Mrs Divya S Kumar
6	15-04-2023	SATURDAY	2:30-3:30	Module I	Mrs Divya S Kumar
7	20-04-2023	THURSDAY	4:00-5:00	Module I	Mrs Divya S Kumar
8	20-04-2023	THURSDAY	5:00-6:00	Module I	Mrs Divya S Kumar
9	27-04-2023	THURSDAY	4:00-5:00	Module I	Mrs Divya S Kumar
10	27-04-2023	THURSDAY	5:00-6:00	Module I	Mrs Divya S Kumar
11	29-04-2023	SATURDAY	1:30-2:30	Module I	Mrs Divya S Kumar
12	29-04-2023	SATURDAY	2:30-3:30	Module I	Mrs Divya S Kumar
13	29-04-2023	SATURDAY	3:30-4:30	Module I	Mrs Divya S Kumar
14	04-05-2023	THURSDAY	4:00-5:00	Module I	Mrs Divya S Kumar
15	04-05-2023	THURSDAY	5:00-6:00	Module I	Mrs Divya S Kumar
16	06-05-2023	SATURDAY	1:30-2:30	Module II	Mrs Uma Prabha
17	06-05-2023	SATURDAY	2:30-3:30	Module II	Mrs Uma Prabha
18	11-05-2023	THURSDAY	4:00-5:00	Module II	Mrs Uma Prabha
19	11-05-2023	THURSDAY	5:00-6:00	Module II	Mrs Uma Prabha
20	13-05-2023	SATURDAY	1:30-2:30	Module II	Mrs Uma Prabha
21	13-05-2023	SATURDAY	2:30-3:30	Module II	Mrs Uma Prabha
22	18-05-2023	THURSDAY	4:00-5:00	Module II	Mrs Uma Prabha



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Children's Education Society (Regd.)

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23	18-05-2023	THURSDAY	5:00-6:00	Module II	Mrs Uma Prabha
24	20-05-2023	SATURDAY	1:30-2:30	Module II	Mrs Uma Prabha
25	20-05-2023	SATURDAY	2:30-3:30	Module II	Mrs Uma Prabha
26	25-05-2023	THURSDAY	4:00-5:00	Module II	Mrs Uma Prabha
27	25-05-2023	THURSDAY	5:00-6:00	Module II	Mrs Uma Prabha
28	27-05-2023	SATURDAY	1:30-2:30	Module II	Mrs Uma Prabha
29	27-05-2023	SATURDAY	2:30-3:30	Module II	Mrs Uma Prabha
30.	27-05-2023	SATURDAY	3:30-4:30	Module II	Mrs Uma Prabha
31.	29-05-2023	MONDAY	4:30-5:30	Valedictory	Dr Gururaj S Kulkarni

COORDINATOR

Mrs. Divya S Kúmar

HOD

Dr. Gururaj S Kulkarni

PRINCIPAL

Dr. Padmaa M. Paarakh



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## COURSE ON KNOWLEDGE ENRICHMENT ON UNIT PROCESSING OF TABLETS (COURSE CODE: UPT 2022-23)

### OUTCOME REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore- 560068, completed course on Knowledge Enrichment on Unit Processing of Tablets (Course Code: UPT 2022-23). 19 students were registered and the course was conducted for **30 hours**. This course trains registrants to have a basic awareness about the significance of different unit operations used in the manufacturing of tablets. The course focuses on enhancing the knowledge regarding the basic concept & principle behind the unit operations which will in turn help them to understand the formulation process of tablet dosage form.

### Outcome:

At the end of this course students were able to

- Appreciate and comprehend significance of excipients selection in quality of dosage form.
- Understand the processes involved in pharmaceutical manufacturing process of tablets.
- Appreciate various unit operations used in pharmaceutical industries for manufacturing of solid dosage form.

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

COORDINATOR

Mrs. Divya S Kumar

HOD

Dr Gururaj S Kulkarni

PRINCIPAL

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## COURSE ON KNOWLEDGE ENRICHMENT ON UNIT PROCESSING OF TABLETS

(Course Code: UPT 2022-23)

### COMPLETION REPORT

The Department of Pharmaceutics, The Oxford College of Pharmacy, Bangalore, conducted a course on "Knowledge Enrichment on Unit Processing of Tablets" (Course Code: UPT 2022-23) for the academic year 2022-23. The course was intended to impart knowledge regarding the basic concept and principle behind the unit operations which will in turn help them to understand the formulation process of tablet dosage form.

The course was started with an inaugural function started by welcoming the Principal Dr Padmaa M. Paarakh. The function was conducted in Room no 507, and all the participants were introduced by Course coordinator Mrs. Divya S Kumar, Course Coordinator. Total 19 students were present. Our Principal had emphasized on the importance of doing such courses for the betterment of their future. The inaugural function has been summed up with the introductory lecture of course coordinator Mrs. Divya S Kumar.

A total of thirty hours course had been conducted after the college hours on Thursday & Saturday. Total 19 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 analyzed. Approximately 43.84% students scored grade A (marks percentage-95-100%) in all the tests followed by 38.59 % who scored grade B (marks percentage-90-94 %) and 17.53 % 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 eighty percent of the students had secured excellent grades in all the tests. Students had shown keen interest in attending and exploring themselves through the interactive sessions conducted.

The valedictory function has been conducted on 29/05/2023 and course participation certificate were distributed to all 19 students by the Principal Dr Padmaa M Paarakh and Head of the Department Dr Gururaj S Kulkarni. Dr. Gururaj S Kulkarni, thanked Principal 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, Bangalore had appreciated the enthusiasm of the students for this course and congratulate the Department of Pharmaceutics and the course coordinator Mrs. Divya S Kumar for successful completion of the course.

COURSE COORDINATOR

Mrs. Divya S Kumar

HOD

Dr. Gururaj S Kulkarni

PRINCIPAL

Dr. Padmaa M. Paarakh



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