

Pharmaceuticals Department

Department meeting register



## **NIRMALA COLLEGE OF PHARMACY, MUVAATTUPUZZHA**

**Affiliated to Kerala university of Health sciences Thrissur**

**Approved by Government of Kerala, AICTE and PCI, New Delhi**

**Managed by: Nirmala Education Society (Reg .no.ER.928/2001). Under Catholic Diocese of Kothamangalam**

### **Pharmaceutics Department Staff Meeting Minutes**

Date of Meeting: 02-June-2022

04/July/2022.

Time: 02.30.Pm -03.30Pm

Venue: Staff Room

#### **Agenda:**

1. Development of add on course under the department
2. Department Audit plan and proposal
3. Practice school syllabus Preparation
4. To identify the new lab for Engineering
5. Any other matters brought Forward

#### **Members Present**

Dr. Manju Maria Mathews

Mrs. Flowerlet Mathew

Dr. Dhanish Joseph

Dr. Fels Saju

Mrs. Ancy ij

Ms. Sonia Ninan

Dr Deepa MK

Mrs. Elizabeth N Xavier

Mrs. Vidya Peter

Mrs Melody

#### **Discussion:**

1. The meeting decided to conduct the add on course for all interested students as industrial experiential learning from first year onwards. To implement this the faculty members took charge to discuss with suitable industries and frame the syllabus.
2. The Hod intimated all faculties to complete the documents and proceed for annual department audit on 1/7/23
3. The meeting has decided to do few changes in the practice school syllabus. The modified syllabus is attached as annexure I, The work load and Topic allotment is also attached here with.
4. The meeting decided to shift the engineering practical to lab to Lab 13

**Signature**

Dr. Manju Maria Mathews

Mrs. Flowerlet Mathew

Dr. Dhanish Joseph

Dr. Fels Saju

Mrs. Ancy ij

Ms. Sonia Ninan

Dr Deepa MK

Mrs. Elizabeth N Xavier

Mrs. Vidya Peter

Mrs Melody

**Minutes Prepared By**

Dr. Dhanish Joseph

**Signature**  
Dept. of Pharmaceutics  
Niramala College of Pharmacy  
Muvattupuzha, Ernakulam (Dist.)  
Kerala - 686 661  
Dr. Manju Maria Mathews

**HOD**



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### **Practice school Syllabus 2021-2022**

**Domain: "Formulation development in an industrial perspective"**

**Host: Department of Pharmaceutics**

**Duration: 150 hrs**

#### **Module 1**

#### **Pharma Industry an Overview (24hrs)**

##### **Module Outcome:**

At the end of this module students will able to

- A. Illustrate Various carrier opportunities in pharma industry*
- B. choose a right pathway for carrier development in industry*

1. Indian pharma industry-an overview
2. Different departments in an industry.
3. Generic drugs- The scenario.
4. Transition from batch to continuous manufacturing - an emerging technology.
5. API flow chemistry.
6. Job opportunities in pharmaceutical industry for B. Pharm and M. Pharm (Pharmaceutics) graduates in pharma industries.
7. Industry Interaction

#### **Module II**

#### **Stability of drug Product –an Evaluation – (20hrs)**

##### **Module Outcome:**



At the end of this module students will able to

- A. Describe Importance of stability study in drug development*
- B. Conduct the stability studies of drug molecule*
- C. Illustrate the practical aspect with respect to conductance of Stability test*

1. Accelerated stability study of a selected marketed formulation and estimation of drug content by UV method- 10hrs

### **Module III**

#### **Formulation development and Pharmaceutical Instrument handling (100 hrs)**

##### **Module Outcome:**

At the end of this module students will able to

- A. Describe the basic considerations in operation and performance of a pharmaceutical machinery*
- B. plan and perform the activity in group and must develop a team spirit among the students in performing the laboratory activity*
- C. acquire hands on training of major equipment's*
- D. analyse the possible defects and problems that can occur while developing the drug product and the various methods to solve the problem*
- E. set the instrument parameters and they can analyze the role of each parameter in improving the quality of a drug product.*
- F. Assess the points to be considered for selecting an instrument*

##### **1. Blender- Granulation- 6hrs**

- a. Prepare and evaluate the blend uniformity of a highly potent and low potent drug at verifying instrument parameters using, V cone blender, Cube mixer.

##### **2. Density apparatus- 6 hrs**

- a. Various USP methods and procedures for Density determination. Determine the density of a bulk powder and report the difference in Derived properties using various USP methods. Study the rationale behind selection of USP method.

##### **3. Tablet Punching machine - 24 hrs**

- a. Development of IR tablet by direct compression/ Setting the machine/ Adjusting the product parameters

##### **4. Tablet coating machine- 21 hrs**

- a. Film coating of tablets, Study of effect of process variables like Role of temperature, RPM, Spray rate, on quality of Coating

5. Disintegration Test apparatus- 3 hrs
6. Dissolution Apparatus- 18hrs
  - a. Evaluation of dissolution of a tablet dosage form based on pharmacopoeial procedure and study the difference in selection of USP I and II apparatus, RPM, Height of the basket or Paddle, Temperature, Media etc.
7. Brookfield Apparatus- 6 hrs
  - a. Measurement of viscosity of a sample using Brookfield viscometer selection of spindle, and RPM
8. Rotary Evaporator-6 hrs
  - a. Preparation of crude sample by Evaporation
9. Cooling centrifuge-6 hrs
  - a. Separate the plasma from blood samples Working, Precautions in performing, setting of the instrument parameters. Analyse the difference in plasma separation at various RPM and time
10. Capsule filling machine-3 hrs
  - a. Instrument setting and filling of capsules. Density and occupancy calculation

#### **Module IV**

##### **Outcome Based Pharmaceutical Formulation Development (6 hrs)**

1. New Trends and role of innovation in pharmaceutical research
2. Feasibility analysis
3. Research and funding opportunities



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**Practice school Syllabus 2021-2022**

**Domain: "Formulation development in an industrial perspective"**

**Host: Department of Pharmaceutics**

**Duration: 150 hrs**

Topic No.	Topic	Faculty	Work Load
<b>Module 1</b>			
<b>Pharma Industry an Overview (24hrs)</b>			
1.1	Pharma Industry an Overview	Dr. Manju	12
1.2	Industry Interaction	Dr. Fels saju	12
<b>Module II</b>			
<b>Stability of drug Product –an Evaluation (20hrs)</b>			
2.1	Stability studies	Dr. Deepa MK	20
<b>Module III</b>			
<b>Formulation development and Pharmaceutical Instrument handling (100 hrs)</b>			
3.1	Blender	Mrs. Flowerlet Mathew	6
3.2	Density apparatus	Mrs Sonia Ninan	6
3.3	Tablet Punching machine	Mrs. Vidya Peter and Dr. Gifty M Jojo	24
3.4	Tablet coating machine	Dr. Dhanish Joseph	16
3.5	Disintegration Test apparatus	Dr. Dhanish Joseph	3
3.6	Dissolution Apparatus	Mrs Elizabeth N Xavier	18
3.7	Brookfield Apparatus	Mrs. Flowerlet Mathew	9
3.8	Rotary Evaporator	Dr. Gifty M Jojo	6
3.9	Cooling centrifuge	Mrs Sonia Ninan	6
3.10	Capsule filling machine	Mrs Melody	6
<b>Module IV</b>			
<b>Outcome Based Pharmaceutical Formulation Development (6 hrs)</b>			
4.1	New Trends and role of innovation in pharmaceutical research, Feasibility analysis, Research and funding opportunities	Dr. Fels saju	6





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### **Pharmaceutics Department Staff Meeting Minutes**

**Date of Meeting: 24-August -2022**



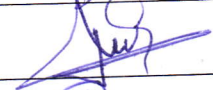



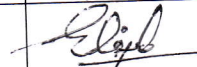
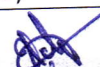


**Time: 02.30.Pm -03.30 Pm**

**Venue: Staff Room**

#### **Agenda:**

1. Subject Allotment for Even semester for AY 22-23
2. Any other matters brought Forward

#### **Members Present**

Sl. No	Name of the member attended the meeting	Signature
1	Dr. Manju Maria Mathews	
2	Mrs. Flowerlet Mathew	
3	Dr. Dhanish Joseph	
4	Dr. Fels Saju	
5	Ms. Sonia Ninan	
6	Dr Deepa MK	
7	Mrs. Elizabeth N Xavier	
8	Mrs. Vidya Peter	
9	Mrs Melody	
10	Dr. Gifty M Jojo	

**Leave of Absence: Nil**



**Discussion:**



**Minutes Prepared By**

Dr. Dhanish Joseph

Department Co-Ordinator



**Signature**

H.O.D  
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Dr. Manju Maria Mathews

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### **Pharmaceutics Department Staff Meeting Minutes**

**Date of Meeting: 22-October -2022**

**Time: 02.30.Pm -03.30Pm**

**Venue: Staff Room**

#### **Agenda:**

1. Plan for the academic activities of the department
2. Planning for the conduct of M Pharm classes 21-22 Admission
3. Any other matters brought Forward

#### **Members Present**

Dr. Manju Maria Mathews

Mrs. Flowerlet Mathew

Dr. Dhanish Joseph

Dr. Fels Saju

Dr. Gifty M Jojo

Ms. Sonia Ninan

Dr Deepa MK

Mrs. Vidya Peter

Mrs. Melody Grace

Mrs. Elizabeth N Xavier

#### **Discussion:**

During the meeting, it was decided to conduct following department activities in the academic year 2022-23

- i) Workshop/ training- 2
- ii) Seminar/ conference – 1

iii) Guest lecture- 1

Since the M Pharm classes are starting on November 14, subject allotments were done and discussions for the orientation program was carried out.

Industrial visit to Sance pharmaceuticals, Pala scheduled on 19<sup>th</sup> November was also discussed. Dr. Manju Maria Mathews and Dr. Dhanish Joseph will be accompanying with students.

Mock progress presentation of 3<sup>rd</sup> semester M Pharm students is scheduled on November 17.

Members Present

Dr. Manju Maria Mathews

Mrs. Flowerlet Mathew

Dr. Dhanish Joseph

Dr. Fels Saju

Dr. Gifty M Jojo

Ms. Sonia Ninan

Dr Deepa MK

Mrs. Vidya Peter

Mrs. Melody Grace

Mrs. Elizabeth N Xavier

Minutes Prepared By

Dr. Dhanish Joseph

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### **Pharmaceutics Department Staff Meeting Minutes**

**Date of Meeting: 19-January -2023**

**Time: 02.30.Pm -03.30Pm**

**Venue: Staff Room**

#### **Agenda:**

1. Planning for the conduct of student exchange program of students from MOSC medical college
2. Subject allotment
3. Any other matters brought Forward

#### **Members Present**

Dr. Manju Maria Mathews

Mrs. Flowerlet Mathew

Dr. Dhanish Joseph

Dr. Fels Saju

Dr. Gifty M Jojo

Ms. Sonia Ninan

Dr Deepa MK

Mrs. Vidya Peter

Mrs. Melody Grace

Mrs. Elizabeth N Xavier

#### **Discussion:**

Syllabus was framed for the student exchange program of students from MOSC medical college

It was decided to be ready with lecture material, references- hard/soft copies, evaluation questions, and Chemicals required for demonstration purposes.

Subject allotment was done in the following manner

Department of Pharmaceutics											
Faculty Work Load											
SI No.	Name of Faculty	Subject	Course						Total		Total Workload
			B.Pharm		Pharm.D		M.Pharm				
			T	P	T	P	T	P	T	P	
1	Dr. Manju Maria Mathews	1 <sup>st</sup> sem BPH pharmaceutics	2	9					5	9	14
		1 <sup>st</sup> PD pharmaceutics			1						
		1 <sup>st</sup> sem MPH Modern Pharmaceutics					2				
2	Ms. Flowerlet Mathew	1 <sup>st</sup> sem BPH pharmaceutics	2	6					4	12	16
		1 <sup>st</sup> PD pharmaceutics			2	6					
3	Dr Deepa MK	8 <sup>th</sup> sem BPH cosmetics	4						8	7	15
		1 <sup>st</sup> sem MPH DDS					4	4			
		3 <sup>rd</sup> sem Engineering		3							
4	Dr Dhanish Joseph	4 <sup>th</sup> PD BPPK			2	6			7	6	13
		6 <sup>th</sup> sem BPH Biopharmaceutics	3								
		1 <sup>st</sup> sem MPH Regulatory	2								
5	Dr Fels Saju	3 <sup>rd</sup> PD formulation			3	6			7	10	17
		1 <sup>st</sup> sem MPH Regulatory					2				

		1 <sup>st</sup> sem MPH Modern Pharmaceutics						4			
		3 <sup>rd</sup> sem BPH engineering	2								
6	Ms Vidya Peter	4 <sup>th</sup> PD BPPK			2				7	9	16
		2 <sup>nd</sup> PD microbiology			4	6					
		6 <sup>th</sup> sem BPH biopharmaceutics	1								
		3 <sup>rd</sup> sem BPH Microbiology		3							
7	Ms Sonia Ninan	4 <sup>th</sup> sem BPH PP	2	9					7	9	16
		8 <sup>th</sup> sem BPH regulatory	1								
		6 <sup>th</sup> sem BPH QA	2								
		3 <sup>rd</sup> sem BPH Physical Pharmacy	2								
8	Dr Gifty M Jojo	1 <sup>st</sup> sem MPH Modern Pharmaceutics					2		7	9	16
		4 <sup>th</sup> sem BPH PP	2	6							
		8 <sup>th</sup> sem regulatory	3								
		3 <sup>rd</sup> sem Engineering		3							
9	Melody										
10	Junia George	3 <sup>rd</sup> sem bpharm: microbiology	2	12					6	12	18
		6 <sup>th</sup> sem Biotechnology	4								
11	Aneeta Rose	3 <sup>rd</sup> sem BPH Physical pharmacy	2	15					4	15	19
		6 <sup>th</sup> sem BPH QA	2								



### Members Present

Dr. Manju Maria Mathews

Mrs. Flowerlet Mathew

Dr. Dhanish Joseph

Dr. Fels Saju

Dr. Gifty M Jojo

Ms. Sonia Ninan

Dr Deepa MK

Mrs. Vidya Peter

Mrs. Melody Grace

Ms. Aneeta Rose Varghese

### Minutes Prepared By

Dr. Dhanish Joseph

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Dept. of Pharmaceutics  
Niramala College of Pharmacy  
Muvattupuzha, Ernakulam (Dist.)  
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Signature

Dr. Manju Maria Mathews

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### **Pharmaceutics Department Staff Meeting Minutes**

**Date of Meeting:** 20 April -2023

**Time:** 03.30.Pm -04.30Pm

**Venue:** Staff Room

#### **Agenda:**

1. Planning for the conduct of second semester M Pharm classes 21-22 Admission
2. Discussion on the seminar topics for the planned NILA
3. Any other matters brought forward

#### **Discussion**

Since the M Pharm classes are starting from May 4, subject allotments were done.

Department Final presentation of 4<sup>th</sup> Semester M Pharm students is scheduled for May 10<sup>th</sup>.

The scheduled NILA Seminar title was decided to be: NANO BASED DRUG DELIVERY SYSTEMS: RECENT DEVELOPMENTS AND FUTURE PROSPECTS.

It was decided to apply to different funding agencies for seminar grants well in advance.

#### **Members Present**

Dr. Manju Maria Mathews

Mrs. Flowerlet Mathew

Dr. Dhanish Joseph

Dr. Fels Saju

Dr. Gifty M Jojo

Dr. Deepa MK

Mrs. Vidya Peter

Mrs. Melody Grace

Ms. Aneeta Rose Varghese

Mrs. Junia George

Minutes Prepared By

Dr. Dhanish Joseph

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Signature

Dr. Manju Maria Mathews

HOD