

## SCHOOL OF PHARMACY

## CIRCULAR



## SCHOOL OF PHARMACY CIRCULAR

#### AJU/SOHAS/045/23

#### Date 24/02/2023

It is hereby notified that a 30 hours Short Term Training Course on "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGEFORMS A THEORITICAL & PRACTICAL APPROACH" will be conducted from 10th April 2023-16<sup>th</sup> May 2023. Registered candidates herewith notified to attend the course without failing. Coordinators need to submit the evaluated assessment papers by 20<sup>th</sup> May 2023.

#### ANNEXURE-1 - Course Content attached

Cap Dean School of Pharmacy ARKA JAIN University Just

Dean School of Pharmacy

Copy to Vice Chancellor Office of the Registrar IQAC In-charge ERP Coordinator ERP In-charge Website In-charge Office file Student Whatsapp group



## Annexure-1

### Course Content

Day	Date	Session to be instructed
1	10 <sup>th</sup> Apr 2023	Introduction and classification of various conventional
· · ·	10 <sup></sup> Apr 2025	dosage forms
2	11 <sup>th</sup> Apr 2023	Factors affecting dosage forms
3	12th Apr 2023	Formulation and Preparation of Camphor water
4	13th Apr 2023	Formulation and Preparation of strong iodine solution
5	15 <sup>th</sup> Apr 2023	Formulation and Preparation of simple syrup
6	17 <sup>th</sup> Apr 2023	Formulation and Preparation of iodine paint
7	18th Apr 2023	Formulation and Preparation of phenol gargle
8	19th Apr 2023	Formulation and Preparation of Terpine Hydrate Elixir
9	20 <sup>th</sup> Apr 2023	Formulation and Preparation of camphor liniment
10	21st Apr 2023	Formulation and Preparation of Boric acid glycerin
11	24 <sup>th</sup> Apr2023	Formulation and Preparation of calamine lotion
12	25 <sup>th</sup> Apr 2023	Formulation and Preparation of cream
13	25 <sup>th</sup> Apr 2023	Formulation and Preparation of soap
14	27th Apr 2023	Formulation and Preparation of shampoo
15	28 <sup>th</sup> Apr 2023	Formulation and Preparation of a medicated powder
16	29 <sup>th</sup> Apr 2023	Formulation and Preparation of iodine ointment
17	1st May 2023	Formulation and Preparation of pain balm
18	2 <sup>nd</sup> May 2023	Formulation and Preparation of Sodium Chloride injection
19	3 <sup>rd</sup> May 2023	Formulation and Preparation of Effervescent Granules
20	4th May 2023	Formulation and Preparation of Aspirin Tablets
21	5 <sup>th</sup> May 2023	Formulation and Preparation of zinc sulphate eye drops
22	6 <sup>th</sup> May 2023	Formulation and Preparation of Hydrogen Peroxide ear drops
23	8 <sup>th</sup> May 2023	Formulation and Preparation of simple ointment
24	9 <sup>th</sup> May 2023	Formulation and Preparation of Zinc and salicylic acid paste
25	10 <sup>th</sup> May 2023	Formulation and Preparation of Colloidion
26	11th May 2023	Formulation and Preparation of Alum suppository
27	12th May 2023	Formulation and Preparation of Effervescent Powder
28	13 <sup>th</sup> May 2023	Formulation and Preparation of Tincture of Orange
29	15 <sup>th</sup> May 2023	Formulation and Preparation of Castor oil emulsion
30	16 <sup>th</sup> May 2023	Formulation and Preparation of Liquid Paraffin Emulsion
31	17 <sup>th</sup> May 2023	Assessment
	11 may 2020	Accounting





### SCHOOL OF PHARMACY CIRCULAR

#### No: AJU/SOHAS/046/23

#### Date 24.02.2023

It is hereby notified that following is the schedule for the assessment of 30-Hour Short Term Training Course on "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGEFORMS & THEORITICAL & PRACTICAL APPROACH".

Assessment Date:	17-05-2023
Time:	4:30-6:00 PM
Mode:	Offline
Venue:	AJU Campus

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#### Dean

School of Pharmacy Copy to Vice Chancellor Office of the Registrar IQAC In-charge ERP Coordinator ERP In-charge Website In-charge Office file Student Whatsapp group





## SCHOOL OF PHARMACY

# CIRCULAR

No: AJU/SOHAS/090/23

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#### Date 11.05.2023

It is hereby notified that following are the students who have registered for a 30 hours Short Term Training Course On "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGEFORMS A THEORITICAL & PRACTICAL APPROACH" which was conducted from 10th April 2023-16<sup>th</sup> May 2023.

Dean School of Pharmacy

Copy to Vice Chancellor Office of the Registrar IQAC Class Coordinators Head of the Departments Dean of Different Schools Website In-charge Office file Student Whatsapp group

SI. No.	Name of Student	
1	Miss Srishti Shreya	Enrolment No.
2	Aryan kumar Singh	210204
2		210322
5	Satyam tiwari	210406
4	Sumant Thakur	210400
5	Pritam sarkar	
6	Anjali Sahu	210341
7	Ishita Mishra	210264
8		210183
	Prachi Mahato	210203
9	Chetna Sandilya	210200
10	Tanushree Giri	
		200214

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## "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH"

Date of Event	10.04.2023- 16.05.2023
Name of the Event	"Basics in Formulation of Pharmaceutical Dosage Forms A Theoretical & Practical Approach" (30 Hours Short Term Training Course)
Type of the Event	Value added Course/Slow Learner/ Advance Learner (2.2.1)
Conducted by	School of Pharmacy
No. Of Participant	10

**OBJECTIVE** Drug substances are seldom administered alone; rather they are given as part of a formulation in combination with one or more non-medicinal agents that serve varied and specialized pharmaceutical functions. Selective use of these nonmedicinal agents, referred to as pharmaceutical ingredients or excipients, produces dosage forms of various types. The pharmaceutical ingredients solubilize, suspend, thicken, dilute, emulsify, stabilize, preserve, colour, flavour, and fashion medicinal agents into efficacious and appealing dosage forms. Each type of dosage form is unique in its physical and pharmaceutical characteristics. These varied preparations provide the manufacturing and compounding pharmacist with the challenges of formulation and the physician with the choice of drug and delivery system to study.

**DETAILS:** The process in which different chemical substances, including the active medicaments are combined to produce a final medicinal product is called as formulation. Drugs are rarely delivered as pure chemical entities but are approximately usually provided as prepared formulations i.e. dosage form. After converting them into an appropriate dose formulation, they are delivered in several dosage forms. To create an alternative dosage form, non-medicinal chemicals (also known as pharmaceutical ingredients or excipients) are added. By adding pharmaceutical ingredients that solubilize or suspend or thicken or dilute or emulsify or stabilize or preserve them, drug dosage forms can be made more effective and appealing. Dr Jyotirmaya Sahoo explained about various dosage forms and their formulations (30 Hours Short Term Training Course: BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH. To develop the expertise among the students a value added course was started by the School of Pharmacy from 10<sup>th</sup> April 2023. The course was jointly instructed by Dr. Jyotirmaya Sahoo (Professor and Dean of School of Pharmacy), Mr. Alok Kumar Moharana and Mr. Sumanta Sen (Associate Professor). Various theoretical and practical aspects relevant to the topic was discussed and performed during the conduction of the course. Finally the assessment was conducted. Successful candidates were provided with certificates of successful completion.



On completion of the course students able to learn

- Reasons for the incorporation of drugs into various dosage forms
- Understand the advantages and disadvantages of various drug dosage forms
- Understand the basics of different dosage forms and pharmaceutical calculations
- Factors governing the choice of route of administration
- Administration methods for different types of formulations
- Preparation of various conventional dosage forms
- How to store the formulated products.

## **MINUTE OF MEETING**

## Agenda 1: Welcome by Dr. Jyotirmaya Sahoo, Dean of School of Pharmacy

Discussion: Dr. Jyotirmaya Sahoo, Dean of School of Pharmacy was greeted all the members present with the meeting.

#### Agenda 2: Title of the STCC and schemes for assessment.

Discussion: Keeping the importance of various dosage forms and their formulation in the Pharmaceutical Industries in view the title of the STCC wass decided to keep "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGEFORMS A THEORETICAL & PRACTICAL APPROACH". The course was of 30 days (30 hours). Curriculum designed by course developer with assignments and assessments. The schemes for assessment will be as one Assignment of 10 marks, Viva of 10 marks, Attendance of 5 marks (>95%=5, 90-94%=4, 75-93%=3) and one assessment of 50 marks. Total marks will be of 75 marks. Assessment is of 1.5 hour in offline mode.

#### Agenda 3: Scheduling and Permission from Vice Chancellor

**Discussion:** The course was scheduled from 10<sup>th</sup> April 2023. Notice was circulated among the students and faculty members after the approval of Vice Chancellor of the University. However, keeping the University activities on view if date need to be revised then on immediate effect notice need to be circulated. Information in this regard, was intimated to the Member Secretary of BOS for the approval/ ratification by the chairman.

#### Agenda 4: Budget planning

**Discussion:** It is decided to register the course. Candidates registered for the STTC by paying an amount of only 100.00 rupees.

#### Agenda 5: Information to students

**Discussion:** Students and staffs were informed through their whatsapp group, website notice board to participate the STCC. All participants attended the course with their uniform and lab coat whenever necessary.



# Agenda 7: Report preparation and submission to In-charge Website and official documentation.

**Discussion:** Report was prepared and submitted to In-charge Website immediate after completion of the course and also need to be submitted with key highlights and monthly NAAC report to IQAC.

# Agenda 8: Record the report by the Website update & Press and Media Committee of School of Pharmacy

**Discussion:** The report was recorded with the School of Pharmacy. The Meeting for the Short Term Training Course was closed with vote of thanks to the present members.

**OUTCOMES**: Students effectively understood the different types of dosage forms and principles of pharmaceutical science in formulation and dispensing the various dosage forms by the help of this STTC.



#### Poster of the Event





## BROCHURE

15th May 2023 Formulation and Preparation of Liquid Paraffin Emulsion 30 31 16th May 2023 Assessment

#### About The Course:

The process in which different chemical substances, incluc combined to produce a final medicinal product is called delivera da spure chemical entities but are approximate formulations i.e. dosage form. After converting them into an are delivered in several dosage forms. To create an altem chemicals (also known as pharmacceutical ingredients or pharmaceutical ingredients that solubilize or suspend or thick or preserve them, drug dosage forms can be made more effect

#### The learning Objective of the Course:

Drug substances are seldom administered alone; rather they are given as part of a formulation in combination with one or more non-medicinal agents that serve varied and specialized pharmacceutical functions. Selective use of these non-medicinal agents, referred to a pharmacceutical ingredients or excipients, produces dosage forms of various types. The pharmacceutical ingredients actually and the serve of the server and a server and the pharmacceutical ingredients solubilize, suspend, thicken, allute, emulatly, stabilize, preserve colour, flowour, and fashion medicinal agents into efficacious and oppeling dosage forms. Each type of dosage form is unique in its physical and pharmacceutical characteristics. These varies preparations provide the manufacturing and compounding pharmacist with the challenges a formulation and the physician with the choice of drug and delivery system to study.

#### By the end of the course, participants may be able to know:

- Reasons for the incorporation of drugs into various dosage forms.
   Understand the advantages and disadvantages of various drug dosage forms.
- Factors governing the choice of route of administration.
  Administration methods for different types of formulations
- How to store the formulated products.



School of Pharmacy **ARKA JAIN University, Jharkhand** Conducts

30 hours Short Term Training Course

**BASICS IN FORMULATION OF** PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH

From 10th April - 16th May, 2023



	Person	

- Professor Dr. Jyotirmaya Sahoo Dean School of Pharmacy, ARKA JAIN University Mr. Sumanta Sen
- Mr. Sumaria series Associate Professor, School of Pharmacy, ARKA JAIN University Mr. Alok Kumar Moharana Associate Professor, School of Pharmacy, ARKA JAIN University

#### Course Developer

Professor Dr. Jyotirmaya Sahoo Dean, School of Pharmacy, ARKA JAIN University Mr. Sumanta Sen Associate Professor, School of Pharmacy, ARKA JAIN University Mr. Alok Kumar Moharana Associate Professor, School of Pharmacy, ARKA JAIN University

#### **Course Duration**

30 Days (30 Hours) Time: 4:30 pm - 5:30 pm

#### Commencement Date

From 10th April 2023

#### Who Can Enroll?

Student of ARKA JAIN University with Science background in senior secondary level

#### Process of Enrolment and Certification

- > Interested candidates can fill the registration from through the link provided below.
- Registration Link : https://forms.gle/m22rmmA1er3CkHRq9
- Registration Charges: Rs.100 (Please send the payment through online payment using Google pay, Phone pay).
   Payment Link is available with the registration form.
- > Last date of Registration : 5th April 2023.
- The selected students will attend the thirty days course in which attendance is mandatory for all the thirty days and also Assignments and assessments for getting the certificate.

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1	10th Apr 2023	Introduction and classification of various conventional dosage forms					
2	11th April 2023	Factors affecting dosage forms					
3	12th April 2023	Formulation and Preparation of Camphor water					
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29	13th May 2023	Formulation and Preparation of Castor oil emulsion					



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#### Photos of the Event



30 Hours Short Term

ON BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGEFORMS A THEORITICAL & PRACTICAL APPROACH Date : 10th April - 16th May, 2023

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University अरका जैन विश्वविद्यालय...



R4V2+3V3, Mohanpur, Jharkhand 832108, India

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Geo tag photos of VAC "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH"



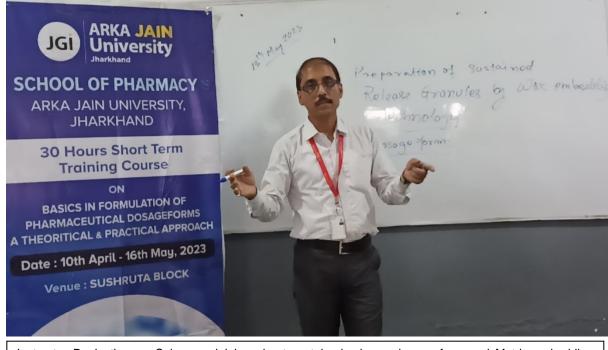


Faculties with registered students for the VAC "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH"

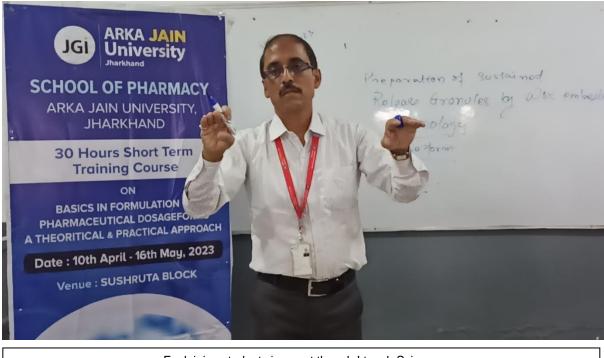


Instructors during the conduction of VAC "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH"





Instructor Dr Jyotirmaya Sahoo explaining about sustained release dosage form and Matrix embedding Technique

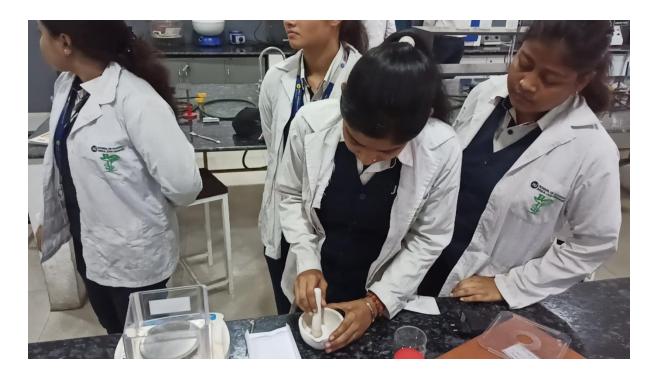


Explaining students is an art though I teach Science





Weighing ingredients accurately by the students



Further size reducing using mortar and pestle





Technique need to be taught whether things may minor



Now it's your turn





Dispersing aspirin to melted beeswax for embedding



Mixed material is spreading on the glazed surface





Passing the solidified mass to sieve number 10 to obtain the embedded matrix



Obtained matrix embedded aspirin granules





Formulation of a Heterogenic dosage form



Assessment conducted for the VAC "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGEFORMS A THEORITICAL & PRACTICAL APPROACH"





Mr Sumanta Sen presenting certificate to the participant



Students awarded with certificate after completion of course





Participants with instructors after successful completion of VAC "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH"



## STUDENTS ATTENDANCE

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ARKA JAIN University Jharkhand

#### SCHOOL OF PHARMACY "Basics in Formulation Of Pharmaceutical Dosage Forms a Theoretical & Practical Approach" 30 Hours Short Term Training Course from 10th April 2023-16<sup>th</sup> May 2023 ASSESSMENT ATTENDANCE

·		17 <sup>th</sup> May 20	023
SI. No.	Name of Student	Enrolment No.	Assessment Attendance Signature
1	Miss Srishti Shreya	210204	Suishti Shoreya.
2	Aryan kumar Singh	210322	Senny gran.
3	Satyam tiwari	210406	Satyam.
4	Sumant Thakur	210340	Sumant:
5	Pritam sarkar	210341	Puitanne.
6	Anjali Sahu	210264	Any ali salus
7	Ishita Mishra	210183	Jehiler
8	Prachi Mahato	210203	Thachi & aphaler
9	Chetna Sandilya	210910	Chetra Sandilys
10	Tanushree Giri	200214	Tanushuee.

ahe Tos 2/ Dr Jyotirmaya Sahoo

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Mr Aløk Kumar Moharana





#### SCHOOL OF PHARMACY

## "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH" 30 Hours Short Term Training Course From 10th April 2023-16<sup>th</sup> May 2023

# RESULTS

SL No.	Name of Student	Enrolment No.	Assess ment (50)	Assign ment (10)	Viva (10)	Attendance (5)	Total Marks Obtained (75)
1	Miss Srishti Shreya	210204	42	8	9	5	• 64
2	Aryan kumar Singh	210322	46	5	7	5	63
3	Satyam tiwari	210406	40	6	6	5	57
4	Sumant Thakur	210340	43	7	9	5	64
5	Pritam sarkar	210341	46	6	7	5	64
6	Anjali Sahu	210264	44	8	8	5	65
7	Ishita Mishra	210183	44	8	8	5	65
8	Prachi Mahato	210203	31	7	8	5	51
9	Chetna Sandilya	210910	44	7	8	5	64
10	Tanushree Giri	200214	33	8	6	5	52



Dr. Jyotirmaya Sahoo

Mr. Sumanta Sen

Mr. Alok Kumar Moharana



## FEEDBACK ANALYSIS



#### SCHOOL OF PHARMACY

## "BASICS IN FORMULATION OF PHARMACEUTICAL DOSAGE FORMS A THEORETICAL & PRACTICAL APPROACH" 30 Hours Short Term Training Course From 10th April 2023-16<sup>th</sup> May 2023

#### FEEDBACK

SL No.	Name of Candidate	Enrolment Number	How Would you like this Course (E/G/V/P)	Whether the resources are good enough to explain (E/G/V/P)	Would you like to Encourage others to Participate such kind of Sessions (Y/N)	Would you like to attend such kind of Sessions in future (Y/N)
1	Miss Srishti Shreya	210204	E	12	+	Y
2	Aryan kumar Singh	210322	E	e	Y	Y
3	Satyam tiwari	210406	e	ε	Y	V
4	Sumant Thakur	210340	E	E	4	Y
5	Pritam sarkar	210341	V	G	Y	Y
6	Anjali Sahu	210264	e	E	Y	Y
7	Ishita Mishra	210183	E	E	Y	Y
8	Prachi Mahato	210203	E	ε	7	¥
9	Chetna Sandilya	210910	E	ε	Y	Y
10	Tanushree Giri	200214	E	E	Y	Ý

E=Excellent, G=Good, V=Very good, P=Poor, Y=Yes, N=N

and! Feedback Collected by Mr. Alok Kumar Moharana



