

SCHOOL OF PHARMACY CIRCULAR



SCHOOL OF PHARMACY CIRCULAR

No: AJU/SP/174/22

Date 21.12.2022

It is hereby notified that a 30 hours Short Term Certification Course on "Basic Extraction Methods and Standardisation of Herbal Drugs" will be conducted from 9th January 2023-14th Feb 2023. Registered candidates herewith notified to attend the course without failing. Coordinators need to submit the evaluated assessment papers by 20th February 2023.

ANNEXURE-1- Course Content

Dean

School of Pharmacy

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Dear

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

Day	Date	Session to be instructed
1	9th Jan 2023	Discussion on basic Extraction methods
2	10th Jan 2023	Demonstration on Soxhlation process
3	11th Jan 2023	Demonstration on Reflux Extraction process
4	12th Jan 2023	Demonstration on Cold Maceration Extraction method
5	13th Jan 2023	Demonstration on Cold Maceration Extraction method
6	16th Jan 2023	Demonstration on Spray Drying of liquid extract
7	17th Jan 2023	Discussion on different Identification test for Carbohydrates
8	18 th Jan 2023	Discussion on different Identification test for Alkaloids
9	19th Jan 2023	Discussion on different Identification test for Tannins
10	20th Jan 2023	Discussion on different Identification test for Volatile oils
10		Discussion on different Identification test for Glycosides
11	21st Jan 2023	Discussion on different Identification test for Proteins and Amino acids
12	23rd Jan 2023	Demonstration on Molisch's test
13	24th Jan 2023	Demonstration on Mayer's and Hager's test
14	25th Jan 2023	Demonstration on Dragendorff's test and Wagner's test
15	27th Jan 2023	Demonstration on Goldbeater's Skin test
16	28th Jan 2023	Demonstration on Identification test for Volatile oils
17	30th Jan 2023	Demonstration on Bontrager's test
18	31st Jan 2023	Demonstration on Bromine test, Borax test and Cupraloin test
19	1st Feb 2023	Demonstration on Miller's test, Biuret test and Ninhydrin test
20	2 nd Feb 2023	Demonstration on detection of Fixed oils and Fats
21	3rd Feb 2023	Discussion on Physical Evaluation of Crude drug
22	4th Feb 2023	Demonstration on determination of Moisture content and Viscosity
23	6th Feb 2023	Demonstration on determination of Ash content and Extractives
24	7th Feb 2023	Demonstration on determination of Optical rotation and Refractive Index
25	8th Feb 2023	Discussion on Morphological and Organoleptic Evaluation
26	9th Feb 2023	Discussion on Microscopic Evaluation
27	10th Feb 2023	Demonstration on determination of Palisade ratio and Vein-islet number
28	11th Feb 2023	Demonstration on determination of Stomatal Index
29	13th Feb 2023	Demonstration on determination of Stomata number and Vein termination number
30	14th Feb 2023	Demonstration on Lycopodium spore method for percentage purity
31	15th Feb 2023	Assessment





SCHOOL OF PHARMACY **CIRCULAR**

No: AJU/SP/175/22

Date 21.12.2022

It is hereby notified that following is the schedule for the assessment of 30-Hour Short Term Certification Course on "Basic Extraction Methods and Standardisation of Herbal Drugs":

Assessment Date:	15-02-2023
Time:	4:30-6:00 PM
Mode:	Offline
Venue:	AJU Campus

Dean

School of Pharmacs

School of Pharmacy

Copy to

Vice Chancellor Office of the Registrar In-charge ERP Coordinator ERP In-charge Website In-charge Office file

Student Whatsapp group

REGISTERED CANDIDATES

Sl. No.	Name of Candidate	Enrolment Number
1	Miss Srishti Shreya	210204
2	Sumant Thakur	210340
3	Miss Anjali Gupta	190176
4	Miss Shalini Mohakud	210814
5	Suman Mahapatrra	210498
6	Vikrant Kumar	210414
7	Vaishnavi Gupta	190393
8	Chetna Sandilya	210910



Report on- 30 Hours Certification Course on "Basic Extraction Methods and Standardisation of Herbal Drugs" Held from (9th January 2023-14th Feb 2023)

Date of Event	09.01.2023-14 th Feb 2023
Name of the Event	Basic Extraction Methods and Standardisation of Herbal Drugs (30 Hours Certification Course)
Type of the Event	Slow Learner/ Advance Learner (2.2.1)
Conducted by	School of Pharmacy
No. Of Participant	07

OBJECTIVE: The medicinal plants are important source for pharmaceutical manufacturing. Medicinal plants & herbal medicines account for a significant percentage of the pharmaceutical market. As the side effects of Synthetic medicine have started getting more apparent, majority of formulation are prepared from herbs. The herbal medicines however, suffer from lack of standardization parameters. The main limitation is the lack of standardization of raw materials, of processing methods and of the final products, dosage formulation, and the non- existence of criteria for quality control. It is necessary to introduce measures on the regulation of herbal medicines to ensure quality, safety, efficacy of herbal medicines by using modern techniques, applying suitable standards & GMP.

DETAILS: Standardization guarantees the content of one or more active constituents and marker compounds. The plant environment and genetic factors could significantly affect the biochemical components of the plant extract, in which plants are still the most abundant and cost-effective resource for drug innovation. Basic extraction procedures are used for crude drugs only to obtain therapeutically useful components and to remove inert components by treating them with a selective solvent known as menstrum. Various methods of extraction in pharmacognosy are Maceration, Percolation, Decoction, Reflux extraction, Soxhlet extraction etc. To develop the expertise among the students a value added course was started by the School of Pharmacy from 9th January 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 about authentication of herbal drug, identification of crude drugs by different methods as inadequate availability of the crude drugs encourage dishonest practice for commercial benefit, different methods of extraction of crude drugs as now a days herbal drugs gain their popularity day by day for their less or minimum toxic effect.

MINUTE OF MEETING

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

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

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

Discussion: Keeping the importance of Herbal drugs and their formulations in view the title of the STCC is decided to keep as Basic Extraction Methods and Standardisation of Herbal Drugs. The course will be of 30 days (30 hours). Curriculum designing will be done 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, and one assessment of 50 marks. Total marks will be of 75 marks. Assessment is of 1.5 hour in offline mode and pass mark will be 38.

Agenda 3: Scheduling and Permission from Vice Chancellor

Discussion: It is decided to schedule the course from 9th January 2023. Notice need to be 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, needs to be intimated to the Member Secretary of BOS for the approval/ ratification.

Agenda 4: Budget planning

Discussion: It is decided to register the course by the interested candidates by paying an amount of only 100.00 rupees.

Agenda 5: Information to students

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

Agenda 6: Promotion

Discussion: Posters and brochure need to be designed by University designers and circulated as well as need to be uploaded with the website. Photographs will be with geo tag.



Agenda 7: Report preparation and submission to In-charge Website and official documentation and Press Release

Discussion: Report to be 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 need to be recorded with the School of Pharmacy. The Meeting for the Short Term Certification Course was closed with vote of thanks to the present members.

OUTCOMES:

- Able to develop the basic understanding about the various extraction methods of herbal drugs.
- Able to identify of the secondary metabolites.
- Able to detect the impurities in the crude drugs by physical identification tests.
- Able to gone for microscopic evaluation of the herbal drugs.



Poster of the Event





BROCHURE

Course Content





9th January - 14th February, 2023





Photos of the Event



Orientation on "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)





Students and Instructors during the orientation of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)



Dr. Jyotirmaya Sahoo is demonstrating to the students "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)





Removal of unwanted parts before cutting the thin section "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)



Plant Histology by Dr. Jyotirmaya Sahoo during conduction of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)





Staining of the cut section an important step prior to mounting, during conduction of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)



Mounting of thin section to the slide for Microscopical Studies during conduction of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)





Ready for observation with the Microscope, during conduction of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)



Finally mounted with the Microscope, during conduction of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)





Before confermation a final observation, during conduction of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)



Explaining the Importance of Projection Microscope, during conduction of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)





Explaining the Soxhlation, during conduction of "Basic Extraction Methods and Standardisation of Herbal Drugs" (30 Hours Certification Course)

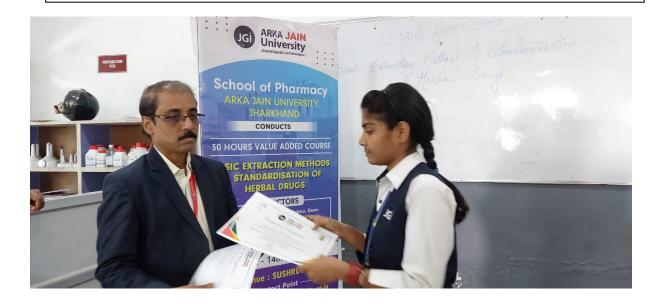


Conducting Assesment





Conducting Viva



Distribution of Certificate





Participants Awarded with Certificates

STUDENTS' ATTENDANCE

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5	AJU/210814	3ªrd Sem	Shalini Mohakud	30	100.1	Shelini	Shalini	Skalini
6	AJU 190146	8th Sem	Anjali Gupter	30	100%	dujali	Aujali	Awfel!
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									10th	11th	13th		15th Feb
31st Jan 2023	1st Feb 2023	2nd Feb 2023	3rd Feb 2023	4th Feb 2023	6th Feb 2023	7th Feb 2023	8th Feb 2023	9th Feb 2023	Feb 2023	Feb 2023	Feb 2023	14th Feb 2023	(Asses ment)
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Sumanta	Sumanta	Sumanta	Sumanta	Sumanta	Moharana	Moharana	Moharana	Moharana	Moharana	Moharana	Moharana	Moharana	Moharan





RESULTS



SCHOOL OF PHARMACY

"Basic Extraction Methods and Standardisation of Herbal Drugs"
9th January 2023-14th Feb 2023
30 Hours Certification Course

RESULTS

SI. No.	Name of Student	Enrolment No.	Assess ment (50)	Assign ment (10)	Viva (10)	Attendance (5)	Total Marks Obtained
1	Miss Srishti Shreya	210204	42	08	08	05	63
2	Sumant Thakur	210340	45	08	08	05	66
3	Miss Anjali Gupta	190176	48	09	09	05	71
4	Miss Shalini Mohakud	210814	40	06	07	05	58
5	Suman Mahapatrra	210498	43	05	06	05	59
6	Vikrant Kumar	210414	46	0.5	06	05	62
7	Miss Vaishnavi Gupta	190393	Ab	Ab	Ab	Ab	-
8	Miss Chetna Sandilya	210910	45	06	04	05	60

Dr. Jyotirmaya Sahoo

Mr. Sumanta Sen

Mr. Alok Kumar Moharana





FEEDBACK ANALYSIS



SCHOOL OF PHARMACY

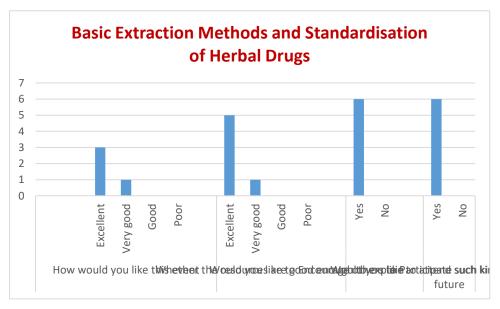
"Basic Extraction Methods and Standardisation of Herbal Drugs"
9th January 2023-14th Feb 2023
30 Hours Certification Course
FEEDBACK

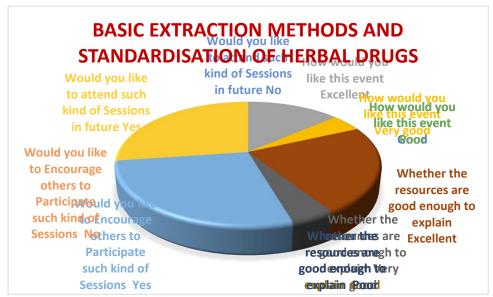
Sl. No.	Name of Candidate	Enrolment Number	How Would you like this Course (E/G/V/P)	Whether the resources are good enough to explain (E/G/V/P)	Would you like to Encourage others to Participate such kind of Sessions (Y/N)	Would you like to attend such kind of Sessions in future
1	Miss Srishti Shreya	210204	E	E	Y	(Y/N)
2	Sumant Thakur	210340	V	E	4	·
3	Miss Anjali Gupta	190176	F	E	~	7
4	Miss Shalini - Mohakud	210814	E	E	\ \ \	7
5	Suman Mahapatrra	210498	V	V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<i>'</i>
6	Vikrant Kumar	210414	E	F	/	
. 7	Chetna Sandilya	210910	E	E	7	Y Y

E=Excellent, G=Good, V=Very good, P=Poor, Y=Yes, N=No

Feedback Collected by Mr. Sumanta Sen









CERTIFICATES AWARDED

















