

## FIRST CYCLE NAAC ACCREDITATION 2023

## **CRITERION 2**



## **TEACHING-LEARNING AND EVALUATION**

2.6.2 Attainment of POs and COs are evaluated

Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

## 2.6.2:

# ATTAINMENT OF POS AND COS ARE EVALUATED.

# ACTION TAKEN TO ATTAIN THE POS AND COS



#### **SYSTEMATIC REVIEW AND META-ANALYSIS**

A one-day workshop and hands-on training was organized by Department of Pharmacy Practice Nirmala College of Pharmacy, Muvattupuzha Ernakulam district, Kerala In Collaboration With ISPOR, KUHS, Student Chapter on 23 May 2021 at 10:00 AM through Online mode. The Resource Person of the day was Mr. Muhammed Rashid, DST INSPIRE Fellow, Research Scholar, MCOPS, MAHE. About 101 delegates Registered and 99 attended the same.

Summary of the program: The webinar was designed to develop the knowledge of Systematic reviewand meta-analysis concepts among the students and faculties to promote college research. The hands-on training was provided on literature search in various databases and data extraction process with Risk of bias assessment. The workshop further involved the analysis of various data using the RevMan software program.



#### HPTLC:TECHNIOUE AND PHARMA APPLICATION

In "Nirmala College of Pharmacy, Department of Pharmacognosy organised a webinar entitled "HPTLC:Technique and Pharma Application". The main aim of the seminar is to create awareness on HPTLC and its applications among the students and faculty in the field of Pharmacy. The webinar commenced at 10.30 am on Thursday 27 <sup>th</sup> May 2020 with welcome by Dr. Prasanth ,Associate Professor, Department of Pharmacognosy. It was followed by the session on HPTLC and finally concluded by question and answer section followed by vote ofthanks.

The session was handled by Sneha Singh, Instrumentation Chemist, Anchrom. The session starts with small introduction to Anchrom and their activities, Evolution of High Performance Thin layer chromatography from TLC (instrumental T L C, software-controlled TLC, HPTLC and finally to Robotic HPTLC), a comparison between TLC (simplicity, low cost, rapid, preliminary results, low cost etc) and HPTLC (reproducibility, reliable analytical results, simple, fast, safe etc.) and so on.

This was followed by a detailed section on HPTLC its **P**rinciple, **M**ethod In this she covered various sections like Sample preparation (100 mg in 1 ml Methanol, sonicate for 15 minutes, centrifuge at 5000 rpm, use supernatant), **S**ample applicators (Robotic applicator, Autosampler, Linomat etc.), **S**ample application techniques (quantitative, in situ clean up, micro prep.

Isolation, superimpose), **B** and application (separation power high, application of more samples, resolution high, less solvent ie. 20ml for 15 samples, less time ie.50-60 sec), **M**obile phase (Freshly prepared mobile phase, 20 min chamber saturation) and **S** tationary phase selection in HPTLC(Silica gel 60 F254 or RP-18), **C** hromatogram isocratic development using twin through chamber( based on size of plates, disadvantage: difficult to control humidity), auto develop chamber, gradient elution chamber, robotic development module (fully automatic, humidity control, automonitoring of solvent front) etc., Image documentation using Visualizer (Finger printing-image of visual chromatogram based on Rf value), **D** ensitometric scanning, **D** erivitization (using spray reagent and plate heater), Image documentation and scanning

<code>,Regulatory</code> acceptance for HPTLC (developing distance, suitable band length, distance to solventlevel, relative humidity) <code>\_,Essential</code> requirements for quality control <code>,</code> Advantage (At a time 6analyst can simultaneously work at one set of device, Database oriented software, Minimal use of solvents), Applications (comparison of multiple samples <code>,</code> Screening of Unknown Plant

Extracts, Quantitative evaluation like quantification of API in various formulations, Spectracomparison, Screening of toxicity and adulterants, profiling of water)etc.



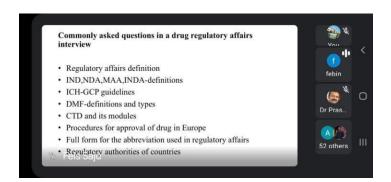
She explained various research works using HPTLC and displayed various referencebooks which help the researches working on HPTLC.



#### PREPARATION FOR A CAREER IN REGULATORY AFFAIRS

A webinar on the topic 'Preparation for a Career in Regulatory Affairs' was organised on 29<sup>th</sup> May 2021. The speaker was the alumni of NCP, Dr. Anjitha Roy, Consultant Regulatory Specialist RRDM, GSK Bangalore. She explained the opportunities as well as pre-requisites of regulatory affairs. She also clarified the doubts of students regarding the field. B.Pharm and Pharm D students were participated in the program.





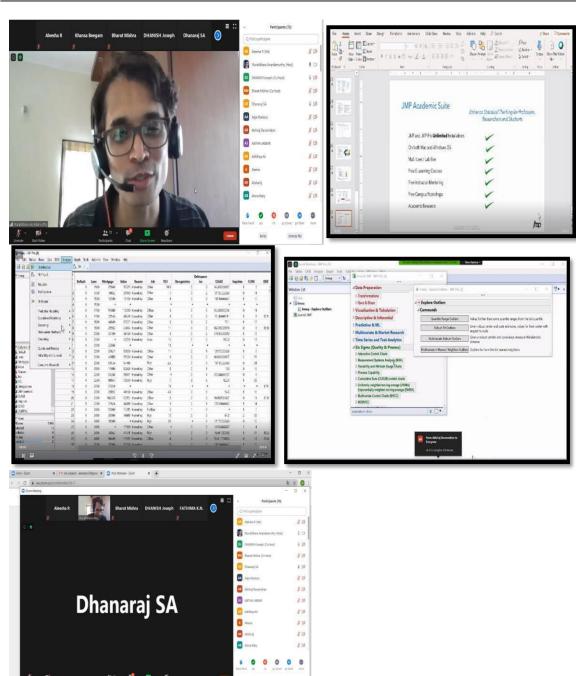


#### STATISTICAL SOFTWARE TRAINING PROGRAM

The Research and Development Cell (R & D) of Nirmala college of pharmacy held a statistical software (JMP) Training program-based webinar on 11th July 2020 on topic "A basic & advanced statistical software (JMP- a SAS product)" at 2.30 PM This webinar was tailored specifically for the students and faculties aimed to share basics of statistics, usefulness and applications in research projects. The webinar was attended by students and faculties of our college. Over 80 people registered and around 70 people joined online. The session was coordinated by Dr. Bharat Mishra, Head, R&D cell, Dept. of Pharmacology and moderated by Mr. Dhanish Joseph, Head, Dept. of Pharmaceutics and he provided a brief overview about the speaker and session. He introduced Dr. Muralidhara Anandamurthy (Member, JMP global academic) and invited for deliberation. JMP is a statistical discovery tool (software) from SAS for Researchers and scientists. JMP is used across industries. He introduced this software which is specific to pharma, many companies Ipsen, Ono Pharma, Medytox, Menarini, ACI, AstraZeneca, NNE, Janssen, Tillotts, London DNA foundry, etc His talk inspired all pharma graduates for using this software. JMP is part of most Universities across globe (use for teaching and Research). R& D CELL He also added the benefits of JMP which includes, Designing of experiments, Data visualization and Exploratory Data analysis, Statistics, predictive modelling and machine learning etc. The presentations and Q&A were followed by a brief panel discussion with the presenters. After a long and lengthy discussion, vote of thanks was given by Dr. Dhanaraj S A, principal, Nirmala College of Pharmacy expressing our gratitude and token of appreciation to the speakers as well as the participants. Afterwards, the program has been officially concluded and closed by webinar moderator Mr. Dhanish Joseph, Head, Dept. of Pharmaceutics.

Feedback collection Further to the Q&A sessions after presentations, feedback from the participants was collected at the end of the webinar through chat boxes. For obtaining the feedbacks, the participants were asked to fill the feedback form through the link provided to them. All participants received the webinar positively and appreciated the practical examples provided by the presentations. This webinar indeed inspired the students and faculties by creating an insight into a new statistical software for research.





### Introduction to Journal club activities for the new academic year

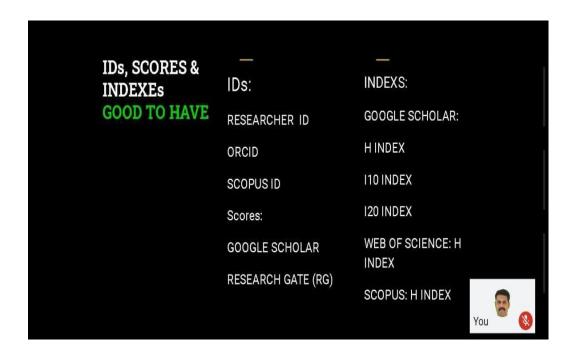
Date & Time: 16/07/2020, 10.00am to 3.00 pm

Venue: Online platform (Google meet)

Audience: VII sem B.Pharm, V Pharm.D, M.Pharm students & faculty members

**Speakers:** 1. Dr.Bharat Mishra(Head R & D cell)

2. Dr. Suja Abhraham(Journal club Incharge)

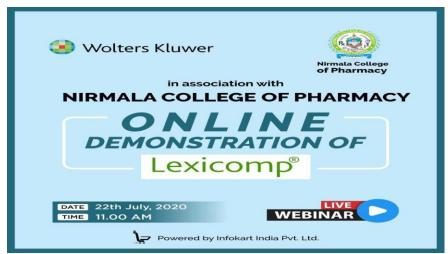


File Name: Extra and Co-curricular activities Code: 8.7

File

## PATIENT-CENTRIC DRUG INFORMATION BY REDUCINGMEDICATION ERRORS

A Webinar on the topic Patient-Centric Drug Information by reducing medication errors was organized by NCP in Collaboration With Lexicomp, Infokart India Pvt. Ltd..on 22 July 2020 at 11:00 AM Online. Through ZOOM meeting. The Resource Persons were Mr. Vikas Arora & Ms. Sheena Chugh. About 101 registered and 81 attended. The webinar was designed to develop the knowledge of Lexicomb software and its application in minimizing the medication error. The program gave an insight into the Lexicomp and its patient-centric application for the clinical pharmacist's point of view. The programme ended with an interactive session.



Registration link:

https://us02web.zoom.us/webinar/register/WN\_0LSUNFXeRK-jQi2f3lLyqg



### Webinar on: Graduate to scientist: An expedition

Date & Time: 04/08/2020, 11.00am to 1.00 pm

**Venue:** Online platform (Google meet)

Hosted by: Extracurricular and co-curricular committee, career guidance cell

**Audience:** All B.Pharm & M.Pharm students & faculty members

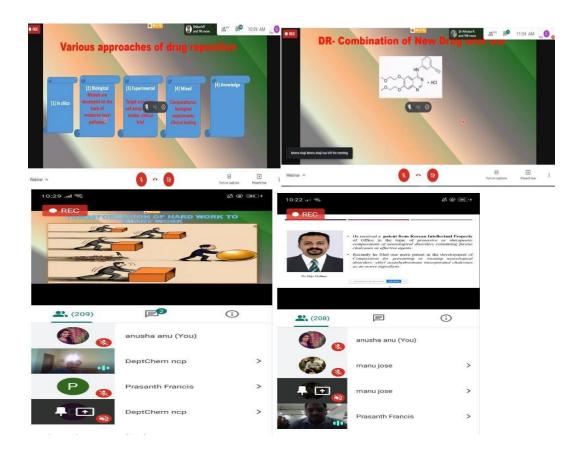
Resource Person: Dr.C.K. Anish, Principal Scientist & scientific team lead atJansen

vaccines, A Johnson & Johnson company, Netherlands











Webinar on "Drug Reposition-Transformation of

## APPLICATIONS OF COMPUTATIONAL CLINICAL BIO-PHARMACEUTICS IN PHARMACEUTICAL PRODUCT **DEVELOPMENT**





#### ABOUT THE PROGRAM

#### Who should attend the conference?

All who are interested in pharmaceutical research

## Registration Fee Rs 200/-

#### PROGRAM CHART

DAY 1 - 22/8/20 SATURDAY

Time: 02.00PM - 03.30PM

DAY 2 - 23/8/20 SUNDAY

Time: 11.00AM - 12.30PM

Time: 02.00PM - 03.30PM

DAY 6 - 27/8/20 THURSDAY

DR. M.K. UNNIKRISHNAN M. Pharm, PhD

Principal National college of pharmacy Kozhikode, Kerala, India



DAY 3 - 24/8/20 MONDAY

Time: 02.00PM - 03.30PM
Topic: The Next generation of Biopharmace

DR.K.GOWTHAMARAJAN M. Pharm, PhD Professor and In-



DAY 7 - 28/8/20 FRIDAY

#### DAY 4 - 25/8/20 TUESDAY

Time: 11.00AM - 12.30PM
Topic: Quality by Design (QbD) App

DAY 5 - 26/8/20 WEDNESDAY

Time: 11.00AM - 12.30PM

DR.VVS NARAY REDDY KARRI



#### ORGANIZING COMMITTEE

His Excellency Mar George Mada Bishop, Kothamangalam Diocese

Manager Rev.Msgr. Cherian Kanjirakombil

Administrator Rev.Fr. Jos Mathai Mailadiath

Convenor Prof. Dr. Badmanaban. R

Prof. Dr. S. Kuppuswamy HOD, Department Of Pharma

Dr. Manju Maria Mathews



#### Onam celebration –Web Onam Vibe Onam 2K20

Date & Time:25/08/2020

Venue: Online platform

Hosted by: II B.Pharm and II Pharm D

Audience: Teachers and All Students

Chief Guest: Adv. Dean Kuriakose MP

Felicitations: 1) Rev. Fr. Jos Mathai Mailadiath, Administrator

2) Dr. Badmanaban R, Principal

3) Dr. Deepa Jose, Vice Principal

Events: Onam title Competition, Promo Video, Photography, Malayali Manga/Kerala Sreeman,
Onam Songs (solo), Digital Painting, Drawing, Class wise onam
wishing short video



#### ONLINE ONAM 2020 NCP MUVATTUPUZHA

1,444 views · 6 months ago













File Name: Extra and Co-curricular activities

File Code:8.7

## **World Heart day**

Date & Time: 29/09/2020,

**Venue:** Online platform

**Hosted by:** IV Pharm.D students

**Audience:** All teachers and students

Felicitations: 1. Rev. Jos Mathai Mailadiath, Administrator

2. Dr Badmanaban R, Principal

3. Mr.Dhanish Joseph, Class In charge

**Guest:** An interview with a cardiologist-Dr.Sandeep. R,MD,DM,DNB, consultant Interventional cardiologist Marsleeva Medicity, Pala

**Events:** Aticle writing, Fitness challenge, still modeling, Healthy heart receipe, Theme presentation by students.







File Name: Extra and Co-curricular activities

### **World Diabetes day**

**Date & Time:** 14/11/2020,

**Venue:** Online platform

Hosted by: V Pharm.D students in association with Caritas hospital & institute ofhealth

Sciences, Kottayam

**Audience:** All teachers and students

Felicitations: 1. Dr Badmanaban R, Principal

2. Prof.Dr.Shaji George, HOD, Dept.Of Pharmacy practice Guest:

Mrs.Remya Joshy (Clinical Nutritionist, Caritas Hospital, Kottayam)**Topic:** Role of Medical Nutritional therapy for type 2 Diabetes Mellitus

**Events:** Diabetes awareness poster, Burpres challenge, Cultural programmes-Mime, Dance, song.





File Name: Extra and Co-curricular ...

### World Aids day

**Date & Time:** 01/12/2020,

Venue: Online platform

**Hosted by**: III semester B.Pharm students

**Audience:** All teachers and students

Felicitations: 1. Dr Badmanaban R, Principal

**Events:** Vlog writing, E-poster, Awareness video by students





84 views · 2 weeks ago















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File Name: Extra and Co-curricular activities

## World cancer day

Date & Time: 04/02/2021,

Venue: Online platform

Hosted by: First year Pharm.D students

Audience: All teachers and students Felicitations:

1. Dr Badmanaban R, Principal

2. Dr. Deepa Jose, Vice Principal

Guest: 1) Dr. Chitrathara. K( Director, Gynec Oncology & Breast

2) Dr. Balamurali Krishna, Oncologist Surgeon, Radiation

Oncologist, General Hospital, Ernakulam

Events: Awareness video & Skit by students



#### **World Cancer Day 2021**

528 views · 1 month ago









Cancer, VP



49

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## WORKSHOP ON" IN SILICO DRUG DESIGN USING AUTODOCK"

Resource Person:

Dr. Prasanth Francis Date

: 8-02-

2021

Venue : Computer lab

#### **Summary of the programme:**

A WORKSHOP on "In silico Drug Design using Autodock" was held on 08-02-2021, 10am-3.30 Pm at Nirmala College of Pharmacy Muvattupuzha.

The aim of the workshop was to give the participants an insight into the concept of drug design and to make aware the various softwares in molecular docking. The program was organized by Department of Pharmaceutical Chemistry, Nirmala College of Pharmacy, Muvattupuzha.

The workshop opened with an auspicious note with a welcome address by Ms. Anujayamol Mathew, Associate professor, Nirmala College of Pharmacy

The speaker of the day, Dr. Prasanth Francis started his session by giving a basic idea regarding drug receptors and Protien data bank . He explained the various aspects and approaches of drug design with the help of various examples. The session was very interactive and all the students and staffs participated enthusiastically. The program has been officially concluded and vote of thanks was given by Dr.Deepa Jose, Vice principal.

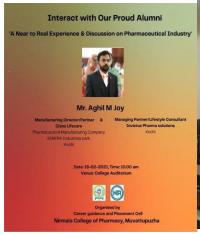






## A NEAR TO REAL EXPERIENCE AND DISCUSSION ON PHARMACEUTICAL INDUSTRY

A guest lecture was organised in NCP on 19-02-2021 at the seminar hall for B. Pharm VII semester students. The resource person of the day was Mr. Aghil M Joy, Manufacturing Director/Partner, Clans Life care, Kochi. The session started at 10.00 am with a payer followed by welcome by Principal Prof .Dr. Badmanabhan R & felicitation by Vice Principal , Dr. Deepa Jose and Dr. Prasanth B .In the session the topics covered include An overview of Pharma industry, types of industries, departments, global status of India Pharmaceutical industry, Need for innovations and scope of more Pharmaceutical industries in Kerala, exports of pharmaceuticals, importance of normal lab work while working in industries, importance of setting goal and also directed students to plan future and to focus studies based on their carrier choice, importance of research, various regulatory affairs in industry and so on. After the session an interactive session was also there, followed by Vote of thanks by Dr. Fels Saju and the session came to an end by 1.00 pm.















### **REPORT ON TRAINING ON MICROMEDEX**

Hands on training conducted on Micromedex Drug Information Software on 23/02/2021 at 3.00 pm by Dr.Merrin Joseph , Assistant Professor ,Pharmacy Practice department ,Nirmala college of pharmacy. The training was given to the fifth pharm D students. Dr.Merrin Joseph explained about importance of using Micromedex as a platform for drug reference, the advantages of Micromedex over other online Streams, how to access the application and she have given a well explained demonstration of the different tools and options in Micromedex.







#### ON A MISSION TO EMPOWER MENSTRUATORS

Women cell of Nirmala College of Pharmacy "She Space" always aims at empowering and orienting women to recognize their true potential and to help them attain their own stand in a competing world. The cell also tries to incorporate hygiene habits and ensure a healthy atmosphere in and around the college. As a combined effort, on a mission to empower menstruators, an initiative was undertaken by our women cell on 3<sup>rd</sup> March 2021 at the college auditorium. The students of first year B Pharm and Pharm D ardently participated in this program. The program commence at 10:30 by seeking the god's blessing with a prayer song. Prof Dr Deepa Jose, Vice Principal were on hand to open officially with the welcome address. The key note speaker was Ms Kavya R Menon, Eco feminist consultant-gender and environment presented us with a astounding talk on "Menstrual Health and Hygiene". She unfold even the essentials which may include the basic reproductive parts along with the reproductive changes in males and females and the need for personal hygiene. A detailed account with respect to Menstrual Cycle and ovulation, tips and tricks to surmount the Pre Menstrual Symptoms (PMS) and PCOD with proper exercise, water intake, diet and sleep was a spotlight of the event. She made the audience get acquainted with the different menstrual hygiene products like disposable pads and their alternatives, menstrual cups etc. Demonstration of placing and withdrawal of Menstrual cups and condoms are the other pinnacles of the session. Following this ,the students had a mutual interface with the eminent chiefguest. Further, distribution of Memento and certificate to the chief guest was carried out. The session was concluded by 12:30 with the vote of thanks by Miss Janice Jacson and the college anthem.





#### **NUTRITION AMONG YOUTH**

The NSS unit of NCP organized an awareness program on the topic "Nutrition among youth" on 24/03/2021 at 11.00 in seminar hall. The resource person of the day was Dr. Raheena Ancil, Dietician, Msc DFSM Nirmala Medical Centre. The session started with a prayer song . Our Principal Dr. R. Badmanabhan welcomes the speaker with a welcome speech . Dr. Raheena Ancil had taken a quite informative and interesting session regarding nutrition in adolescents, its impact on hormonal balances, metabolic disorders and mood shifts. The session started at 11.00 am and ends at 12.30 PM. The last 10 minutes was given for discussion among students and clarification of their doubts regarding their food habits and possible outcomes. The session was winded up by a vote of thanks by Pharm D student Camila A Carlman followed by the presentation of a memento as a honor of appreciation to speaker by the college administrator. A total of 60 Pharm.D students had participated in the program.







#### **GLOBAL CAREER OPPORTUNITIES**

A webinar on global career opportunities was organised on 20<sup>th</sup> April 2021 for final year B.Pharm and Pharm D students. The resource person was Mr. Sony Akkara, Career consultant, Eazylink Academy. He explained the opportunities for pharmacy students in India and abroad especially in Ireland. He also explained the scholarship options available for abroad education.



#### SYSTEMATIC REVIEW AND META-ANALYSIS

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