ANNASAHEB RAMESH AJMERA COLLEGE OF PHARMACY

Accredited by NBA (B. Pharmacy)



Principal Dr. Rajendra D. Wagh (M.Pharm. Ph.D.)

Ref No.: DCS/ARACOP/ Date:

5.1.3 ICT/Computing Skills

Response:

As the Information and Communications Technology (ICT) can impact student learning when teachers are digitally aware and understand how to integrate it into curriculum. Along with traditional teaching and learning process, our institute is substantially using ICT based elearning systems - content and learning management tool like Vmedulife for effective teaching learning process. Therefore, teachers of our institute can easily do academic planning and can conduct test, assignments and grade them. The academic planning was done based on outcome based education system; the all subjects are linked with PO's and CO's. The students can solve the test and assignment through browser and vmedulife app, so as its make them very convenient to appear for internal exams. As our institution has subscription for the eresources like e-journals, e-Shodhsindhu membership, e-books and remote access to eresources, as study resources are available online; students can access to them at their own time. As our institute is premium member of DELNET, students are able to asses online ebooks, e-journals of science and life sciences, near about5000e-journals full text can be assessed and 1000 of thesis can be viewed by the students.

All the faculty members have been trained by conducting FDP programme based on modern pedagogy tools, by DTE, Mumbai. Later on training the faculty members have practised for use of ICT based teaching-learning process. To keep the teachers update with the modern tools and various usage of ICT ineffective teaching and learning, faculty members are permitted for training programmers organized by AICTE, MSBTE and DTE through online or offline mode. The most of the staff has successfully completed the ICT based training through SWAYAM and NPTEL platform. In the process of perpetual modernization of the teaching learning process, the institute has installed LCD projector, LAN and audio system in all the class-rooms, computer lab, and pharmacology laboratory. All the staff members have been

trained to utilize this facility in their routine class.

Ohule Charit Annasaheb Ramesh Aimera College of Pharmacy, Nagaon Dhule

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Ref No.: DCS/ARACOP/

Date:

The entire teaching faculty members have the separate seating arrangement, and we have provided latest version computers, laptops, headphones, HD web-camera and internet. By using these resources, all faculty members conduct their lectures and practicals through online mode during in this pandemic situation. The most of the staff has developed online educational resources such as you tube videos and ppt on slide share which is viewed by the students. Faculty members are encouraged to develop scientific videos and PPT to upload them in social media. These contents are also accessible to the other institutional students and faculty members.



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5.1.3	ICT enabled tools
Sr.	Details of Documents
No.	
1.	ICT Enable facilities Available at Institute
2.	LMS/ Academic Management System
3.	ICT enabled tools used by faculty



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Index Sr. No.: 1

(ICT Enable facilities Available at Institute)



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1. ICT Enable facilities Available at Institute



Class Room with LCD Projector and Internet Wi-Fi and Lan Facility



Seminar Room with LCD Projector and Internet Wi-Fi and Lan Facility



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Central Instrumentation Room



Central Instrumentation Room

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(LMS/ Academic Management System)



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Index Sr. No.: 2

(LMS/ Academic Management System)

Sr. No	Available ICT tools	Link
1.	Vmedulife	https://www.vmedulife.com/
2.	DELNET	http://delnet.in/
3.	Bentham science	https://benthamscience.com/
4.	Zoom app, Google classroom	
5.	NPTEL	https://nptel.ac.in/
6.	National Digital Library Of India	https://ndl.iitkgp.ac.in/
7.	Shodh ganga	https://shodhganga.inflibnet.ac.in/simple-
		search



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1. ICT Tools Available At Institute

.....

Number of	Number of	ICT tools and resources	Number of	E-resources and
teachers	teachers on	available	ICT enabled	techniques used
using ICT	roll		classrooms	
(LMS,				
eResources)				
		✓ ICT enabled		E- resources
		classrooms and		
		laboratory Computer		✓ SWYAM
		Laboratory Video	07	✓ DELNET
		Conference Room,		Vmedulife
		✓ LCD Projector		✓ e-shodhsindhu
		✓ Video tracking system		✓ Knimbus
		MSBTE Software CD		✓ NPTEL
		Camera		✓ NDL
		✓ Headphone with mike,		✓ Zoom app
		Laptop		✓ Google forms
				Webinar
				Pharmacology
				software CD
				Techniques:
				Animations,
				simulations,
				Videos, Power
				Point
				Presentation,
				Models



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2. ICT Tools & Description

.....

ICT tools and	Number available	Description	Expected outcomes
resources	avanabie		
available			
ICT enabled	05	The system understands the	To improve the
classroom		student's requirement and	retentive memory of
		provides innovative learning	students.
		solutions using digital instruction	
		material, through the use of	
		projectors, and computers making	
		the learning process student-	
		centric.	
LCD Projector	03	Portable LCD facilities used for	Provide more
		project, seminar, case studies,	entertaining and
		Presentation of students.	innovative ways to
		Projectors facilitate the delivery	teach and helps to
		process so teachers can decide on	complete lesson
		lecture content and important	objectives and facts.
		points ahead of time instead of	
		making decisions spontaneously.	
Digital library	01	• E-Resources SWAYAM, V-	Allows student to be
		Medulife, NPTEL,NDL, E-	more innovative and
		shodhsindhu, Knimbus, DELNET	imaginative.
		etc. Techniques: Animations,	
		simulations, Videos, Power Point	
		Presentation, Models	



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ICT tools and	Number	Description	Expected outcomes
resources available Simulation based tool & software	available 01	Video tracking system for animal study based on simulation tool for students likely to conduct various drug screening against animal model to evaluate drug safety index, pharmacokinetic behavior, toxicity profile, therapeutic drug monitoring etc.	Enhancement of Problem Solving and Decision Making attitude of researchers
Educational software			Enhancement of Problem Solving and Decision Making attitude of researchers
Module (Vmedulif e, online google forms)		It is used for many classroom tasks, such as Regular Lecture, managing assignments, collecting student feedback, Organising Different Competitions, Seminars, Presentation of Students, Journal Club, online students test & assessment also carried out by faculty	Improves Students academic performance & Confidence, Technical skills, self learning attitude
Webinar		Exposure of student to live streaming with expert via online link, You Tube, Google meet, Zoom app, live telecast etc	Promotes active and engaging lesson for students' best learning experience.
Computer rooms	01	Series of Computer system with internet connection, Webcam, Headphone, LCD Projector, Audio system provided for students	Promote the students' active learning and cooperative learning

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Maharashtra
Maharashtra
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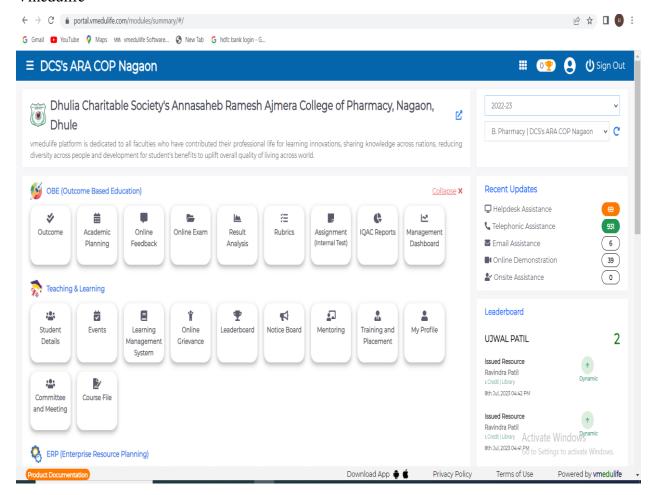
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Vmedulife





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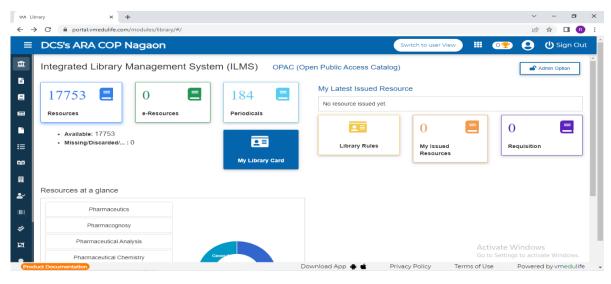
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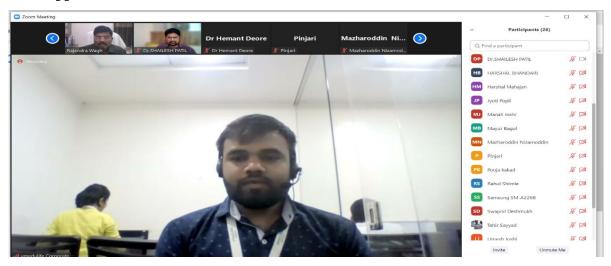
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OPAC



Zoom app



Marashtra Anno e Control

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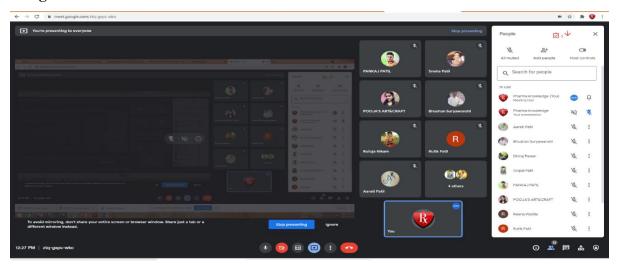
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Google classroom



Delnet





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Dated 22-Dec-2020



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Receipt

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and is entitled to all benefits and privileges pertaining thereto.

Membership Number *IM* – 8012 has been renewed and it expires on September 26, 2021

Dr. Sangeeta Kaul

Director

Date of Issue: December 22, 2020 DELNET, New Delhi

Magasm Dhule Maharashta

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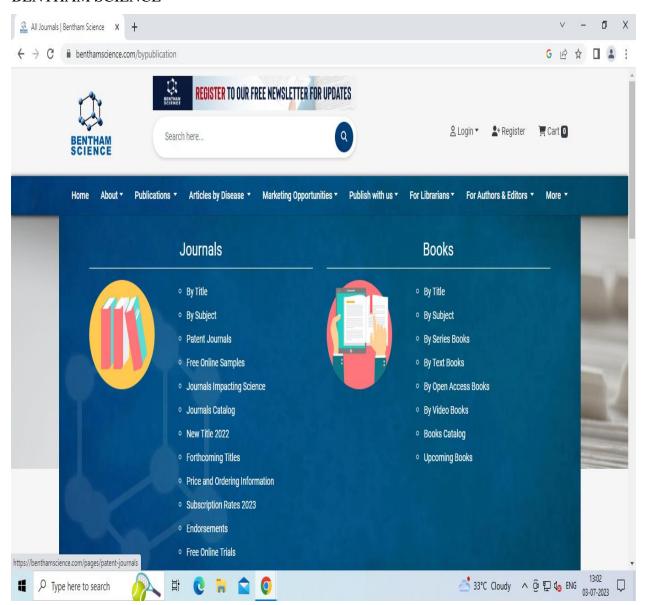
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BENTHAM SCIENCE





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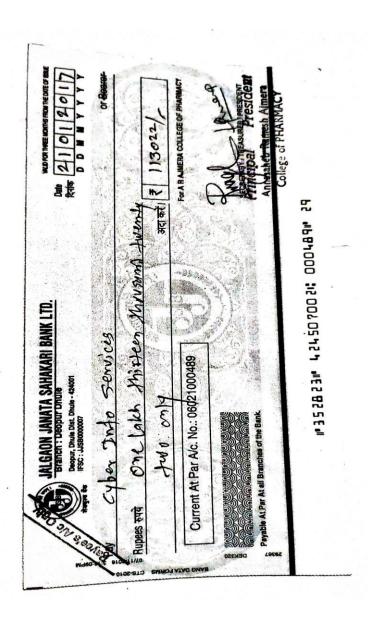
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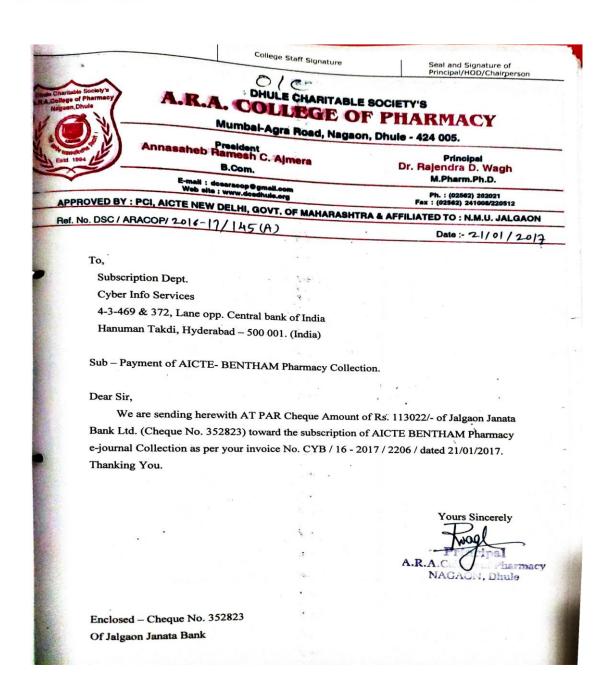
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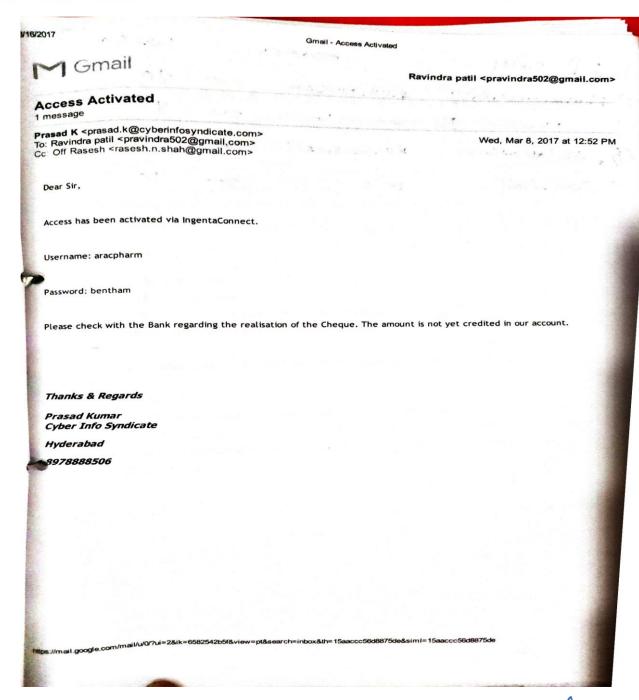
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Hon'ble Ashishji R. Ajmera
(B.Com, MBA)

Principal
Dr. Rajendra D. Wagh

(M.Pharm. Ph.D.)

Ref No.: DCS/ARACOP/ Date:





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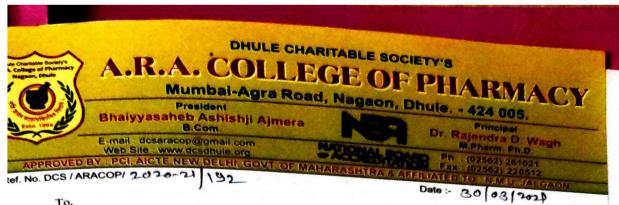
Principal

Dr. Rajendra D. Wagh

(M.Pharm. Ph.D.)

Ref No.: DCS/ARACOP/

Date:



To,
Director,
NDLI CLUB (M.O.E)
27nd Floor IIT Khargagpur Kolkata Campus
HC Block, Sector- III Salt Lake City
Kolkata- 700106.

Subject: NDLI Club Registration Request.

Dear Sir,

On behalf of DCS's A. R. A. College of Pharmacy, Nagaon, Dhule, I am requesting to create NDLI club for our institute DCS's A. R. A. College of Pharmacy, Nagaon, Dhule.

I have read NDLI club terms and conditions before applying.

Here is the list of Authority of our club DCS's A. R. A. College of Pharmacy, Nagaon, Dhule.

Club Patron - Dr. Rajendra D. Wagh

Club President - Mr. Umesh Joshi

Club Secretary - Mr. Ravindra Patil

Executive Member-Tanvirahmad Shaikh

Awaiting your Approval for Same.

Thanks,

Regards,

Mr. Ravindra Patil

Director/Principal Name: Dr. Rajenara D. Wagh

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Date: 30/03/2021

Principal
A.R.A. College of Pharmacy
NAGAON, Dhule

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Index Sr. No.: 3

(ICT enabled Tools used by faculty)



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3. ICT enabled Tools used by faculty

E-content Developed by teachers

Sr.	Name	Topic	Date	YouTube link
no.				
1.	Dr Prashant	Route of Drug	12/04/2021	https://youtu.be/EQqc9Ea9xaA
	S. Salunke	Administration (Part-		
		I)		
2.	Dr Prashant	Parkinson's disease	13/04/2021	https://youtu.be/01A-cudfZjs
	S. Salunke			
3.	Dr Prashant	Route of Drug	13/04/2021	https://youtu.be/WpNgG4LBOAk
	S. Salunke	Administration (Part-		
		II)		
4.	Dr Prashant	Pharmacokinetics	18/04/2021	https://youtu.be/RV5VouLvntc
	S. Salunke	(Part-I)		
5.	Dr Prashant	Pharmacokinetics	19/04/2021	https://youtu.be/kSjoiJxFPhA
	S. Salunke	(Bioavailability)		
6.	Dr Prashant	HAP-I	20/04/2021	<pre>https://youtu.be/VdlICPaqiLg</pre>
	S. Salunke	Cardiovascular		
		System		
7.	Dr Prashant	Physiology of Heart	21/04/2021	https://youtu.be/hEt3qzPQN1I
	S. Salunke			
8.	Dr Prashant	Cardiac Cycle	21/04/2021	https://youtu.be/0z4nnTAM2fQ
	S. Salunke			
9.	Dr Prashant	Action Potential of	25/04/2021	https://youtu.be/AJi_rh_4dWw
	S. Salunke	Cardiac Muscles		
10.	Dr Prashant	Electrocardiogram	25/04/2021	https://youtu.be/0u_y2D5AGec
	S. Salunke			
11.	Mr B.L	Enzymes	22/06/2020	https://youtu.be/5qu9r1Golpo
	Deore			



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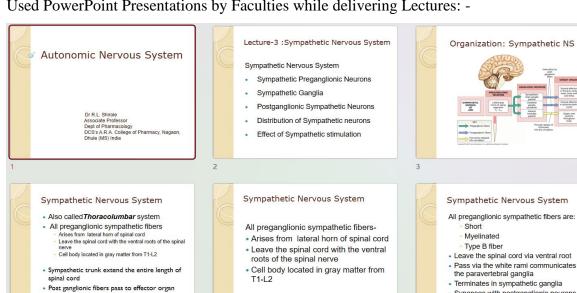
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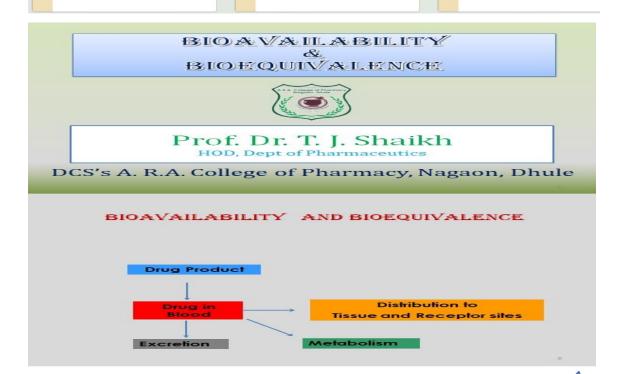
Date:

Synapses with postganglionic neurons

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Used PowerPoint Presentations by Faculties while delivering Lectures: -







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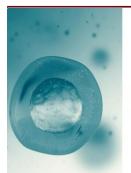
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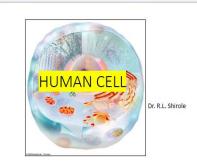
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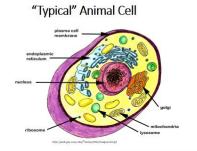
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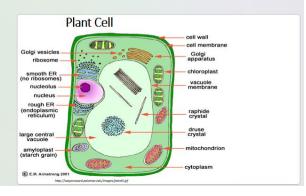


Human Cell Dr. R.L. Shirole



2







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PHARMACOKINETICS-BASIC CONSIDERATIONS

Plasma Drug Concentration-Time Profile Plotting Data



Prof. Dr. T. J. Shaikh

DCS's A. R.A. College of Pharmacy, Nagaon, Dhule

INTRODUCTION TO PHARMACOKINETICS

- The duration of a drug therapy ranges from a single dose of a drug taken for relieving an acute condition such as headache to drugs taken life —long for chronic conditions such as hypertension, diabetes, asthma or epilepsy.
- The frequency of administration of a drug in a particular dose is called as Dosage regimen.
- Depending upon the therapeutic objective to be attained, the duration of drug therapy and the dosage regimen are decided.

HERBAL COSMETICS

Prof. Kailaspati P.Chittam

Department of Pharmacognosy,

DCS's A.R.A.College of Pharmacy, Nagaon ,Dhule

Managen Dhule Maharashtra

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ORGANOLEPTIC EVALUATION OF CRUDE DRUGS

Prof. Minal S. Patil Department of Pharmacognosy, DCS's A .R .A. College of Pharmacy, Nagaon ,Dhule

SHAPE AND SIZE OF CRUDE DRUGS

Crude drugs can be of different shapes etc.

Cylindrical (Sarsaparilla)

Sub cylindrical (Podophyllum)





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As per PCI Syllabus, in First Year B. Pharmacy a subject is given

BP 205T Computer Application in Pharmacy-Theory

BP 210P Computer Application in Pharmacy-Practical

The above subject teach by affiliated colleges including DCS's A. R. A. College of Pharmacy, Nagaon, Dhulefrom 2017-2018.

For better understanding purpose college purchase Language Lab. Software.

Syllabus for BP 205T Computer Application in Pharmacy-Theory

BP205 T. COMPUTER APPLICATIONS IN PHARMACY (Theory)

30 Hrs (2 Hrs/Week)

Scope: This subject deals with the introduction Database, Database Management system, computer application in clinical studies and use of databases.

Objectives: Upon completion of the course the student shall be able to

- 1. know the various types of application of computers in pharmacy
- 2. know the various types of databases
- 3. know the various applications of databases in pharmacy

Course content:

UNIT – I 06 hours

Number system: Binary number system, Decimal number system, Octal number system, Hexadecimal number systems, conversion decimal to binary, binary to decimal, octal to binary etc, binary addition, binary subtraction – One's complement, Two's complement method, binary multiplication, binary division

Concept of Information Systems and Software: Information gathering, requirement and feasibility analysis, data flow diagrams, process specifications, input/output design, process life cycle, planning and managing the project

UNIT -II 06 hours

Web technologies:Introduction to HTML, XML, CSS and Programming languages, introduction to web servers and Server Products

Introduction to databases, MYSQL, MS ACCESS, Pharmacy Drug database

UNIT – III 06 hours

Application of computers in Pharmacy – Drug information storage and retrieval, Pharmacokinetics, Mathematical model in Drug design, Hospital and Clinical Pharmacy, Electronic Prescribing and discharge (EP) systems, barcode medicine identification and automated dispensing of drugs, mobile technology and adherence monitoring

Diagnostic System, Lab-diagnostic System, Patient Monitoring System, Pharma Information System

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UNIT - IV 06 hours

Bioinformatics: Introduction, Objective of Bioinformatics, Bioinformatics Databases, Concept of Bioinformatics, Impact of Bioinformatics in Vaccine Discovery

UNIT-V 06 hours

Computers as data analysis in Preclinical development:

Chromatographic dada analysis(CDS), Laboratory Information management System (LIMS) and Text Information Management System(TIMS)

Syllabus for BP 210P Computer Application in Pharmacy-Practical

BP210P. COMPUTER APPLICATIONS IN PHARMACY (Practical)

- Design a questionnaire using a word processing package to gather information about a particular disease.
- Create a HTML web page to show personal information.
- 3 Retrieve the information of a drug and its adverse effects using online tools
- 4 Creating mailing labels Using Label Wizard, generating label in MS WORD
- 5 Create a database in MS Access to store the patient information with the required fields Using access
- Design a form in MS Access to view, add, delete and modify the patient record in the database
- Generating report and printing the report from patient database
- Creating invoice table using MS Access
- Drug information storage and retrieval using MS Access
- 10. Creating and working with queries in MS Access
- 11. Exporting Tables, Queries, Forms and Reports to web pages
- 12. Exporting Tables, Queries, Forms and Reports to XML pages

Magazan Dhule Maharashtra

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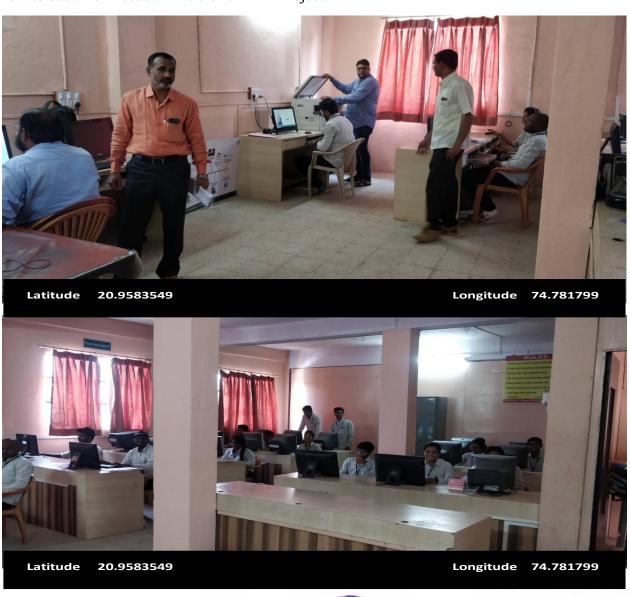
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Date:

Academic Year 2018-2019

Students gets information about Introduction to Computer, National Digital Laboratory and how to search of Research Article for Mini Project.





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Dr. Rajendra D. Wagh

(M.Pharm. Ph.D.)

Ref No.: DCS/ARACOP/ Date:





Students gets information about Introduction of Computer, National Digital Laboratory and how to search of Research Article for Mini Project on 23/09/2019

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Academic Year 2019-2020

Digital library facility is available for student and faculty members. Students got information of E-Library, use of National Digital Library, DELNET. He explained to students of Use of DELNET as The main objectives of DELNET are to promote resource sharing among member libraries by collecting, storing and disseminating information by offering networking services to users; to undertake scientific research in the area of information science and technology, create new systems in the field, apply the results of research; offer technical guidance to member libraries on collecting, storing, sharing and disseminating information; coordinate efforts for suitable collection development and reduce unnecessary duplication wherever possible; facilitate and promote the delivery of documents manually or mechanically etc.





Librarian Mr. Ravindra S. Patil and Assistant Librarian Mr. Mukund Bhamare was conducted demo on use of E-Library, National Digital Laboratory for searching research article to students.

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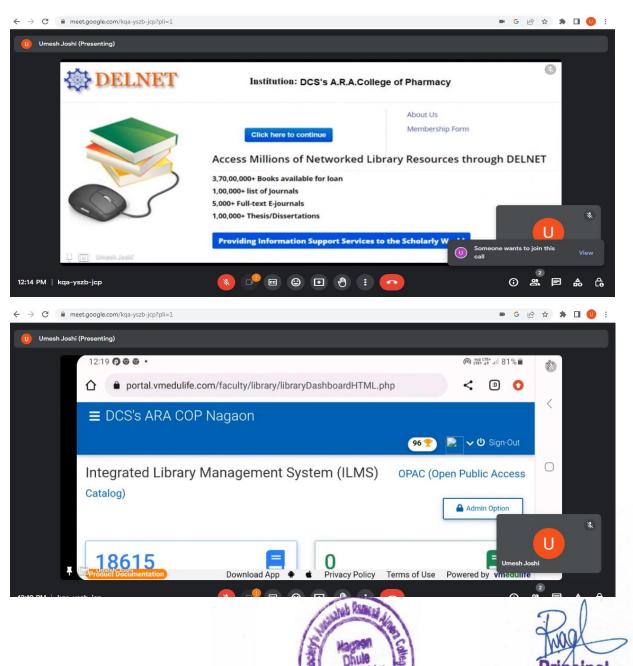
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Dhule Charitáble Society's Annasaheb Ramesh Ajmera College of Pharmacy, Nagaon, Dhule

Academic Year 2020-2021

Mr. Umesh P. Joshi and Mr. Ravindra S. Patil conducted online lecture on Use of DELNET and Vmedulife Portal for students.



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Academic Year 2021-2022

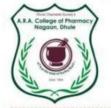
Dr. Harshal Dilip Mahajan was conducted Lecture on Use of Computers for First Year B. Pharmacy Students. He explained that A **computer** is an electronic device that manipulates information, or data. It has the ability to **store**, **retrieve**, and **process** data. You may already know that you can use a computer to **type documents**, **send email**, **play games**, and **browse the Web**. You can also use it to edit or create **spreadsheets**, **presentations**, and even **videos**. Everything you do on your computer will rely on both hardware and software.







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Academic Year 2022-2023

Experimental Pharmacology Series according to PCI Syllabus of Subject Pharmacology of Third Year B. Pharmacy are conducted on Ex-Pharma Series Software by using Web Link https://heb-nic.in/Ex-Pharm/login.php. Experimental Pharmacology Series carried out by Dr. Ravindra B. Patil, Dr. Rahul L. Shirole, Dr. Hemant V. Deore and Dr. Prashant S. Salunke.









