

Gurunanak College of PharmacyNAGPUR-440026

E-mail : gncp2004@yahoo.com

Web Address:<u>www.gncp.edu.in</u>

6.5.2: The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

1. Add on courses Index of Supporting Documents about Add on Courses

Sr. no.	Academic Year	Name of the Certificate Course	Page number
1	2020 2021	Effective Project writing and Presentation Skill	02-06
	2020-2021	Application of Computational Techniques in Drug Design and Development	07-12
2	2010 2020	Effective Project writing and Presentation Skill	13-18
2	2019-2020 Hands Sophis	Hands on training Programme for Sophisticated Analytical Instruments	19-25

2. ICT enabled tools for effective teaching-learning process. Index of Examples of documents being used by staff for ICT enabled teaching

Sr. no.	Name of the document	Page Number
1	YouTube channels of college and staff members	
2	WordPress page of faculty	26-27
3	Representative power point presentation of faculty	28
4	Recording Room	29-60
5	e-Content developed by faculty and available on YouTube/ Slide share platform	61 62-72
6	Flipped classroom activity constructor	73-77
7	Think-Pair-Create-Share Activity constructor	
8	Use of Software for animal experimentation	78-83
6	Google classroom based exam and classes	84-86 87-90
		0/-90

Communooner Dr. A. M. Ittadwar Narl, Near Dixit Nagar, Behind C. P. Fundry Principal G. N. C. P. Kamptee Road Nagpur-440026.



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#### Academic Year 2020-2021

#### "Effective Project writing and Presentation Skill"



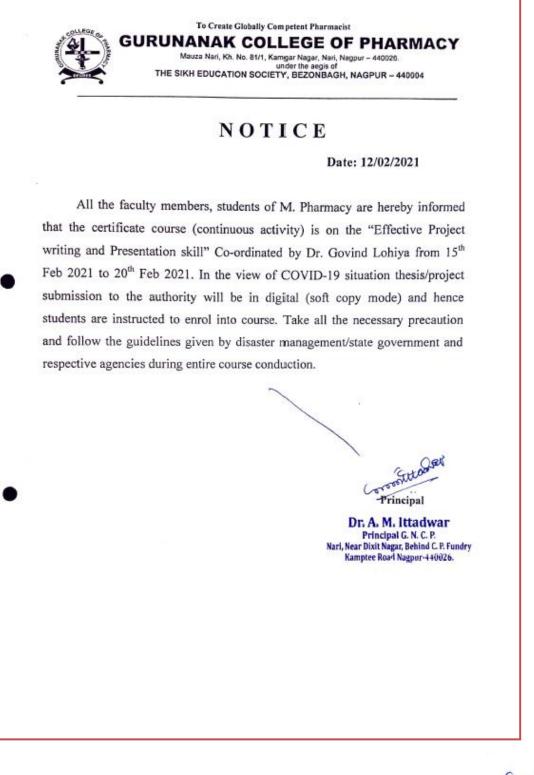
Principal

Dr. A. M. Ittadwar Principal Gurenseek College of Pharmacy Nari, Near Dixit Nagar, Bobind C.P. Feendry Kamptee Road. Measur-140 026



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Principal

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Gurunanak College of PharmacyNAGPUR-440026 Web Address:<u>www.gncp.edu.in</u>

Accredited by NAAC & Gold Ranking in AlcTE-Cll Survey UNDER THE AEGIS OF THE SIKH EDUCATION SOCIETY, BEZONBAGH, NAGPUR – 440004 APPROVED BY A.I.C.T.E. & GOVERNMENT OF MAHARASHTRA Ph. No. 7775883667 Fax: (0712) 2633851 Email: gncp2004@yahoo.com Web: gncp.edu.in								
	Attendar Effective Project Writin Date: 15 <sup>th</sup> to 2	g and	Pre		atior	ı Ski	11	
Sr. no,	Name of the Student	15/02/2021	16 [02-1202]	17 02 2021	18 02 2021	13/02/2021	20/2/2/	Sign
1.	ABHILASHA ROKADE	P	P	P	P	P	P	A REAL PROPERTY AND A REAL PROPERTY.
2.	ANUBHAV MORGHADE	P	P	P	P	P	P	And shi
3.	CHARUSHEELA GIRI	P	P	P	p	P	P	Latin
4.	DAVINI BOBDE	P	P	P	P	P	8	habade
5.	ESHA JAIN	P	P	P	P		9	Esha Jam
6.	FARHEEN BANO	p	P		p	3	9	Johreen
7.	GUNJAN KEWALRAMANI	P	P	P	p	P	8	Labor
8.	HASAN HUSSAIN	P	P	P	P	P	9	H. A Hus
9.	KARISHMA ASNANI	P	P	P	P	P	8	Azan
10.	LABHESH MEN	p	P	•	•	-	-	100
11.	PURVA SARODE	P	P		P			
12.	RITIKA SINGH	P	P	P	P	P	8	N.ca/
13.	SUHASINI CHAURASIA	P	p	P	P	P	PE	Suhasini
14.	TRUSHNA JAMGADE	P	•			P	P	à.
15.	VILESH JADHAV	P	P	P	P	P	8	allor
16.	YOGESHWAR RODGE	P	,	P	P	P	P	Ri

Corresttate

Dr. A. M. Ittadwar Principal - Gurenseak College of Pharmaoy Nari, Near Dixit Nagar, Boleind C.P. Feendry Kamptee Road, Nessour-440 026



Gurunanak College of PharmacyNAGPUR-440026 Web Address:<u>www.gncp.edu.in</u>

Photo Gallery







Sutored Corren Principal

Dr. A. M. Ittadwar Principal Gurenesek College of Pharmaoy Nari, Near Dixit Nagar, Bohind C.P. Feendry Kamptee Road, Negour-440 926

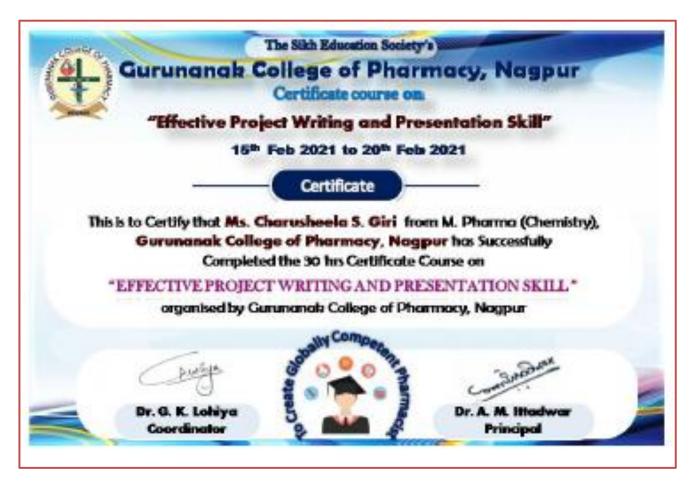


### **Gurunanak College of Pharmacy**NAGPUR-440026

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### Sample Certificate



Principal

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E-mail : gncp2004@yahoo.com

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"Application of Computational Techniques in Drug Design and Development"



Principal

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#### **Key Features:**

- A rich immersive learning experience supported through the use of webinars, discussion fora and personal assistance wherever appropriate
- Hands on training to gain practical knowledge of concepts and tools involved in molecular docking and prediction of molecular properties, efficacy and toxicity.
- Participants will be given full support to access, download, install & operate each software's.

#### Program Schedule:

Day and Time	Content of Program
Day 1 10.30 am to 4.00 pm	Introduction to Molecular Docking; Downloading & Installing Software's; How to draw chemical structures; How to search database for ligands; Ligand optimization; One click Sketch to Molecular Optimization of Multiple molecules; Searching Protein PDB download and Optimization
Day 2 10.30 am to 4.00 pm	Hands on training and evaluation
Day 3 10.30 am to 4.00 pm	Searching Active site and Allosteric sites; Molecular Docking using Auto dock Vina; Molecular Docking using Webservers
Day 4 10.30 am to 4.00 pm	Hands on training and evaluation
Day 5 10.30 am to 4.00 pm	Visualization of Docking Result; Introduction to Drug Properties; Calculation of Properties
Day 6 10.30 am to 4.00 pm	Hands on training and evaluation; Research Paper Discussion, Feedback

- Registration Fees: Rs. 1000/-
- Who can attend: M. Pharm/ M.Sc./PhD/Research scholar/Faculty
- Registration: Submit duly filed registration form
- Note: Personal laptop is essential to attend the program.
- Venue: Seminar room, Gurunanak College of Pharmacy, Nagpur
- For Further Enquires contact: 9028665370, 8459419190

#### **Organizing Committee**

Convener: Dr. Abhay Ittadwar Prospi, 0309, Super

Co-Ordinator: Dr. Nidhi Sapkal

#### Resource Persor

Mr. Sapan K. Shah Asst. Professor, P. J. L. COP, Nagpur

Dr. Sumit Aror Asst. Professor, GNCP. Nagpur Dr. Subhash Yende Asst. Professor, GNCP. Nagpur

Principal

Dr. A. M. Ittadwar Principal Gurenszek College of Pharmaoy Nari, Near Dixit Nagar, Boleind C.P. Feundry Kamptee Road, Measur-440 026

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Sr. No	Name of Participant	Day 1 01/03/21	Day 2	Day 3 03/03/21	Day 4	Day 5 05/03/21	Day 6
1	Gulshan Ganuna	eng &	1446	10048	1495	624B	- ALS
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3	Lejainhilawonpure		Popura	Ransoran	Cd.	Change	6
4	Alachi Pahade	Par	RA	-	417	Bt	R T
5	Sheadha Mahalle	-	05	(St	0.5	952	at
6	Veenandrua Dhoke.	Verender	Venales	Vierenter		Vecanda	Verent
7	Shraddha Khasche	truck	Aux	que	June 1	Ant	-
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Photo Gallery



Sutorer Principal 0

Dr. A. M. Ittadwar Principal Gurenseak College of Pharmaoy Nari, Near Dixit Nagar, Bokind C.P. Feendry Kamptee Road. Neasour-440 926

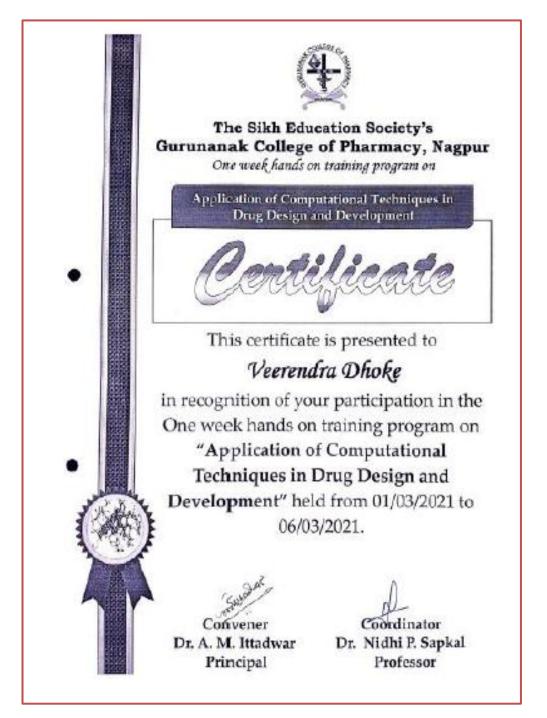


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### Gurunanak College of PharmacyNAGPUR-440026

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### Sample Feedback

Gurunanak College of Pharmacy		ui		
One-week hands on training progra	m on			
Application of Computational Techniques in Drug De	sign and	Deve	elopm	ent
Date: 1 <sup>st</sup> to 6 <sup>th</sup> March 2021				
Feedback Form				
Your feedback is critical for us to ensure we are meeting your educational				
you could take a few minutes to share your opinions with us so w	needs. We e can serve	you be	appreci tter.	late i
Please return this form to the instructor or organizer at the end of	the Semin	ar. Th	ank you	u.
(Circle Your Response to Each Iter	n.)			
1: Strongly disagree 2: Disagree 3: Agree	•	4: Str	ongly	agre
✓ The content of this program was relevant for my study	1	2	3	4
✓ The activities in this program gave me Sufficient practice and feedback.	1	2	3	4
✓ The resource persons were well prepared.	1	2	3	4
✓ I will be able to use what I learned in this One week training program	1	2	3	4
✓ This workshop lived up to my expectations.	1	2	3	4
<ul> <li>What other improvements would you recommend in this Work</li> </ul>	kshop?			
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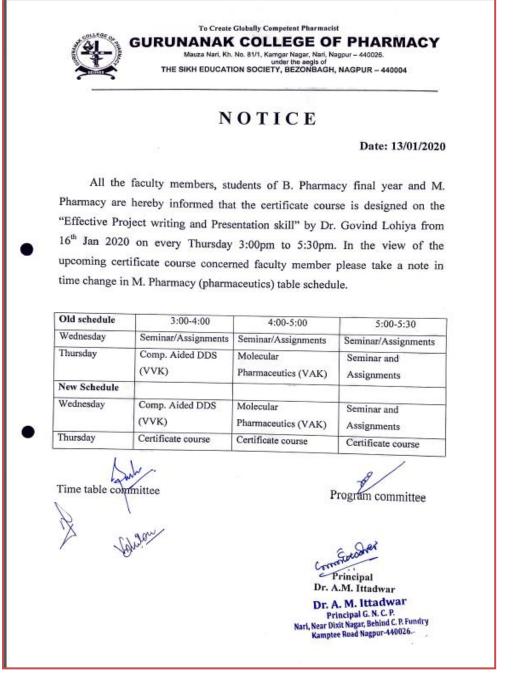
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Academic Year 2019-2020

"Effective Project writing and Presentation Skill"



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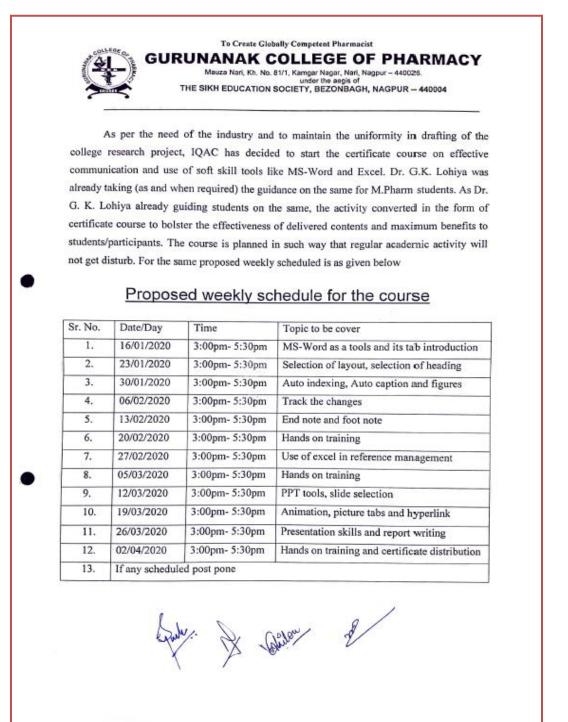


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### <u>Schedule</u>



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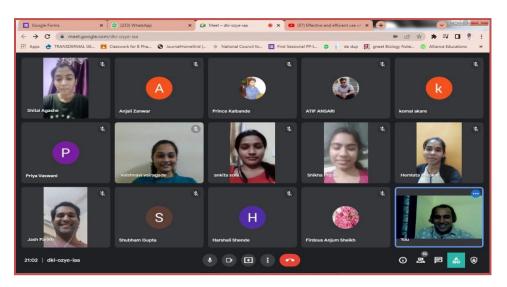
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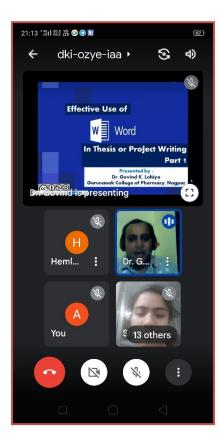


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### **Photo Gallery**









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### Sample Feedback

Feed back form Certificate Course 19-20	*	
	Questions Responses 23 Settings	
	23 responses	
	Accepting responses	
	Summary Question Individual	
	Who has responded?	
	Email	
	komalakare19@gmail.com	
	harshalishende123456789@gmail.com	
	hswahi4576@gmail.com	
	hswahi4576@gmail.com (1)	
	ankitasoni2481996@gmail.com	
	atifansari823@gmail.com	
	shubhgpt143@gmail.com	
	junaida381@gmail.com	
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1	Timestamp	Email address	Name of the Participant	The certificate course co	The demonstration in co	The trainer is well prepa	r I will be able to use what	I will be able to use what	This certificate course liv	Rate the topic which you
2	06/03/2020 00:12:25	dafabhijit@gmail.com	Abhijit Narendra Daf	Strongly agree	Agree	Agree	Agree	Agree	Agree	4
а	05/03/2020 23:09:01	ankitasoni2481996@gm	Ankita Krishnadeo Soni	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	4
4	06/03/2020 07:20:11	firanjum1997@gmail.com	Firdous Anjum Akram Sł	Agree	Agree	Strongly agree	Agree	Agree	Agree	3
5	05/03/2020 23:02:14	harshalishende12345678	Harshali Niranjan Shend	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	5
6	05/03/2020 23:05:18	hswahi4576@gmail.com	Harshpal Singh Wahi	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	4
7	05/03/2020 23:07:11	hswahi4576@gmail.com	Harshpal Singh Wahi	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	4
8	05/03/2020 23:29:44	rarokarhemlata08@gmai	i Hemlata Dnyaneshwar P	Agree	Agree	Strongly agree	Agree	Strongly agree	Agree	5
9	06/03/2020 09:53:58	jash.parikh94@gmail.cor	r Jash Parikh	Strongly agree	Agree	Strongly agree	Disagree	Disagree	Strongly agree	4
10	05/03/2020 23:19:38	junaida381@gmail.com	Junaid Ansari	Strongly agree	Strongly agree	Agree	Agree	Strongly agree	Agree	4
11	05/03/2020 22:59:23	komalakare19@gmail.co	Komal Ramesh Akare	Agree	Agree	Agree	Agree	Agree	Agree	4
12	05/03/2020 23:25:17	komalg070@gmail.com	KOMAL SUNILKUMAR	Strongly agree	Agree	Agree	Agree	Agree	Agree	5
13	05/03/2020 23:11:08	atifansari823@gmail.con	Mohammad Atif Iqbal	Agree	Agree	Agree	Agree	Agree	Agree	4
4	05/03/2020 23:36:00	samfool123456@gmail.c	Paras Kothari	Agree	Agree	Agree	Agree	Agree	Agree	4
15	06/03/2020 09:36:11	payalchandurkar97@gm	Payal Ashok Chandurka	Agree	Agree	Agree	Strongly agree	Agree	Agree	3
16	08/03/2020 08:35:09	priyavaswan5@gmail.co	Priya Vaswani	Strongly agree	Agree	Strongly agree	Agree	Agree	Agree	4
17	08/03/2020 07:00:41	sameerhedaoo1997@gn	Sameer Akhadu Hedaoo	Agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Agree	4
8	05/03/2020 23:34:39	s.popali.sp@gmail.com	Shikha Dinesh Popali	Strongly agree	Agree	Strongly agree	Agree	Agree	Agree	5
19			Shital Arunrao Agashe		Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	5
0			Shivani Arvind Chaudha		Agree	Agree	Agree	Agree	Agree	4
1			Shubham N Kalbande		Strongly agree	Strongly agree	Strongly agree	Strongly agree	Agree	4
2			Shubham Shivpujan Gu		Strongly agree	Strongly agree	Strongly agree	Strongly agree	Agree	5
a			Vaibhav Santosh Shend		Strongly agree	Agree	Agree	Agree	Agree	4
24	05/03/2020 23:35:15	vaishvairagade4545@gn	Vaishnavi Shailesh Vaira	Agree	Strongly agree	Agree	Strongly agree	Strongly agree	Agree	3

Fouttoe 0 Principal

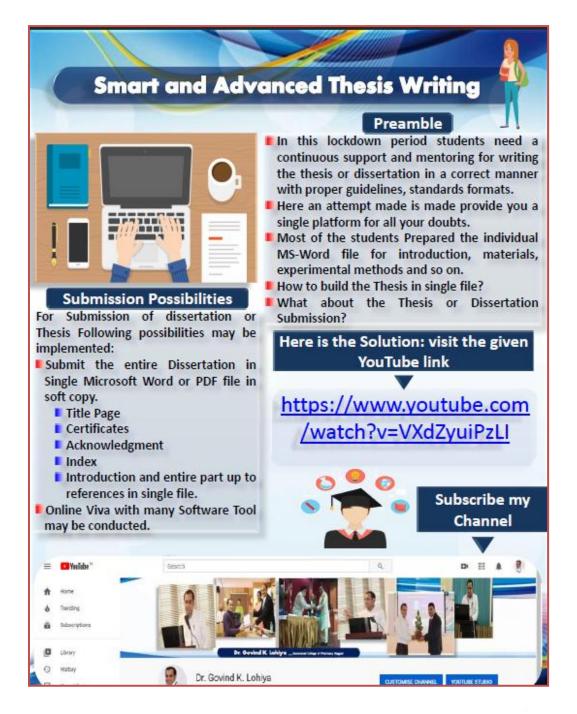
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### After the Course a flyer containing YouTube video link was prepared to circulate among the students



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#### Hands on training Programme for Sophisticated Analytical Instruments

#### GURUNANAK COLLEGE OF PHARMACY ORGANISES

### HANDS ON TRAINING FOR SOPHISTICATED ANALYTICAL INSTRUMENTS

16-21 SEPTEMBER 2019

#### OBJECTIVES

This Training Programme is intended to provide basic understanding, operation and hands on fraining of sophisticated instruments like UV-visible spectrophotometry, Fourier Transform Infrared Spectrometer (FTIR) and High Performance Liquid Chromatography (HPLC), These instruments are widely used in industries for analysis of drug products. The training program can help them in understanding the role of sophisticated instruments and give advantage to the learner to face progressive competition in industries.

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#### **OUTLINE OF CONTENTS**

- \* It provides basic understanding of UV-visible spectrophotometer, FTIR spectrophotometer HPLC.
- \* It imparts knowledge about sample and mobile phase preparation.
- \* It gives hands on training for software of sophisticated instruments.
- It gives knowledge of care required during handling, trouble shooting and maintenance of the instruments.

#### **RESOURCE PERSONS**

#### **Dr. Suhas Padmane**

Assistant Professor, Gurunanak College of Pharmacy, Nagpur.

#### Mr. Kiran Ghadge

Assistant Manager Toshvin Analytical Pvt Ltd. Mumbai.

#### WHO CAN APPLY

Interested faculty members, Ph.D. Scholars and PG students can fill up the application form and submit it to the Coordinators.

#### HOW TO APPLY

The applicants are required to send completely filled in application form so as to reach the co-ordinator on or before 14/9/2019.

#### COURSE REGISTRATION FEE : Rs. 100/-

Contact: Dr. Suhas Padmane Contact No.: 8275744760 Email: suhaspadmane@gmail.com



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Day/ Date	Session 12.00-1.30	Demonstration 2.00-5.30
Monday 16/9/2019	<ul> <li>Basics of spectroscopy, Electronic transitions</li> <li>Beer-Lambert's Law and its limitation,</li> <li>Chromophore and Auxochrome</li> <li>UV cut-off</li> </ul>	Introduction to Shimadzu UV-spectrometer software Preparation of samples Calibration of wavelength & Absorbance scale
Tuesday 17/9/2019	<ul> <li>UV-spectroscopy</li> <li>Woodward-Fieser rule</li> <li>Qualitative and Quantitative Applications</li> </ul>	<ul> <li>Calibration curve,</li> <li>Assay of pharmaceuticals using UV-spectroscopy</li> </ul>
Wednesday 18/9/2019	FT-IR spectroscopy- Basics     Theory, Sample preparation,     Factors affecting IR     spectroscopy	<ul> <li>Introduction to software</li> <li>Sample preparations- Solid pellet technique &amp; liquid sampling.</li> </ul>
Thurday 19/9/2019	<ul> <li>FT-IR spectroscopy</li> <li>Interpretation</li> <li>Assay of Simethicone</li> </ul>	<ul> <li>Diffuse Reflectance Spectroscopy (DRS)</li> <li>Calibration</li> </ul>
Friday 20/9/2019	<ul> <li>High Performance Liquid chromatography (HPLC)- Theory</li> <li>Stationary phases- column chemistry</li> <li>Detectors</li> </ul>	<ul> <li>Introduction to Agilent Chemstation software</li> <li>Preparation of Sample and Mobile phase</li> </ul>
Saturday 21/9/2019	<ul> <li>HPLC Applications (11.00am - 12.30 pm)</li> </ul>	Valedictory function     (1.00 pm)

Gurunanak Collage of Pharmacy, Nagpur Accredited by NAAC 'B' GRADE
APPLICATION FORM
Hands on Training for Sophisticated Analytical Instruments
16-21 September 2019
1. Name Dr/Mr./Ms
2. Age years
3. Edu. Qualification
4. Designation
5. Organization
6. Address
Phone
Email
7. Experience (years) if any
Date : Signature of Participant
Place :
Certified that the above applicant is employed/studying in our institute and the information stated by him/her is verified and found correct. We therefore, permitted him/her to attend the training programme organized at your institute.
Signature of Authority with Seal



Dr. A. M. Ittadwar Principal - Gurenseak College of Pharmaoy Nari, Near Dixit Nagar, Boleind C.P. Feendry Kamptee Road, Nessour-440 026



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Web Address:<u>www.gncp.edu.in</u>

### List of attendees

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Sr. No.	Name of Student	16/5/2019	610d/6/HI	13/9/19	51/6/61	20/9/19	21/9/19
1	ABHILASHA CHANDRIKA YADAV	applant	tulade	Abdal	alle	Alat	Burne
2	MANISHA RAMESH CHAVHAN	Debaut 6,	inhabert	Milde	Meler	myhow	Mahad
3	PREETI CHANDRABHAN RATHOUR	But (	fuelti	pedi	Justi	Aseli	Beeti
4	RANJANA RAJU NIKHARE	Bart	with a	Burg	Bout	Parts	Rang
5	RASHMI HEMKANT NASARE	e para p	Nellon	2.2012	Report	epolon	650ron
6	SUPRIYA KHIVARAJ BHAGAT	Sairye se	Burge	Print	Christe	Rruja	Examp
7	CHANDRASHEKHAR BHOJRAJ BADWAIK	-Cladwink	Bdiou	and and	endrod	endi	Adward
8	RUSHIKESH SANJAY KHAIRKAR	thangh &	Bauk	Fraint	Around		Freiver
9	ANKITA KRISHNADEO SONI	Andride	meile	Arkil	Andit	Antert	Akit
10	DEEPALI NAMDEO TAPRE	John (	Pape	Dego		Jor	gela
11	HARSHALI NIRANJAN SHENDE	Chenled	Blend	Bhard	Flor	poten	Bre
12	NEHA SHAMRAOJI NIKHADE	Notade N	Initad	NILLA	Hoters	Nnithal	· Noitro

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**Photo Gallery** 

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Sample Certificate



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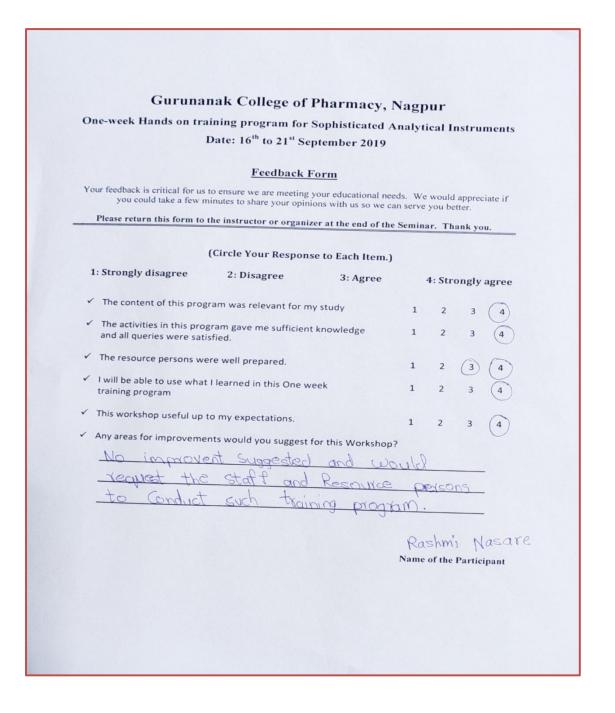


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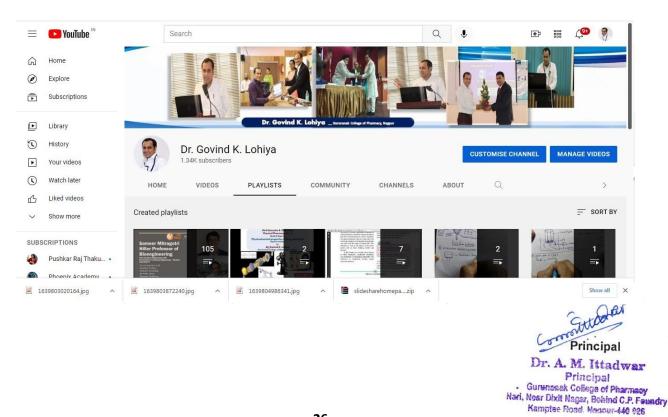
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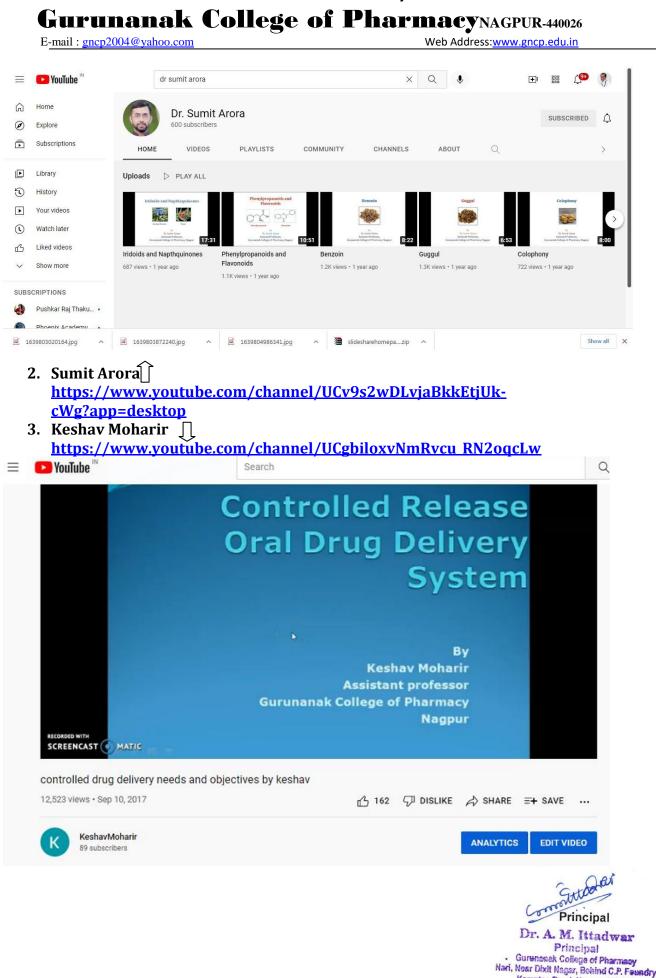
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1. Govind K. Lohiya

### https://www.youtube.com/c/DrGovindKLohiya







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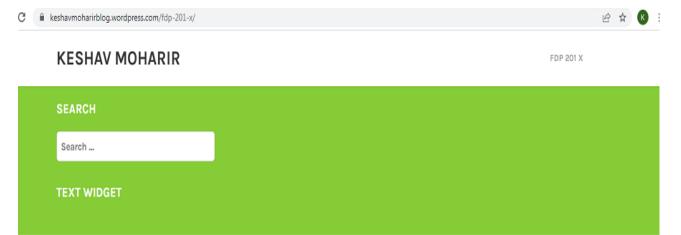
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#### Wordpress page of faculty

### https://keshavmoharirblog.wordpress.com/fdp-201-x/



### FDP 201 X

Dear students,

Please find the link given below as Flipped classroom - out of classroom activity.

Flipped\_Classroom\_Activity\_KESHAV MOHARIR

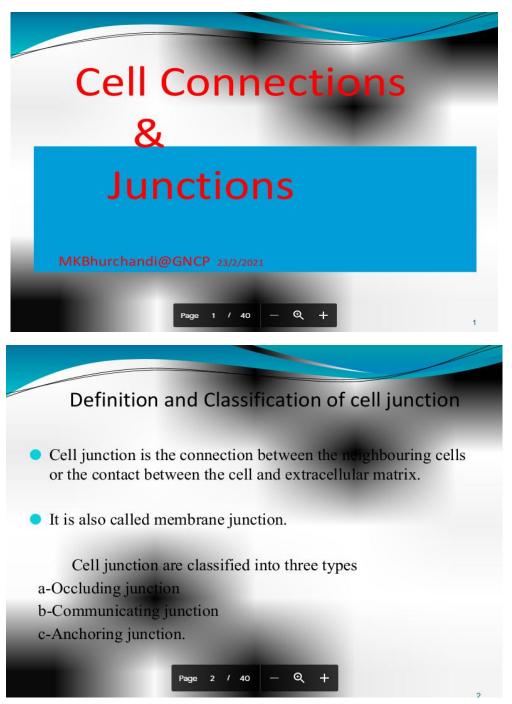
Follow the instructions as given below -

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### Representative power point presentation of faculty



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### Membrane Structure and Function

Mrs Minal K Bhurchandi Faculty GNCP Nagpur

### **Membrane Function**

Membranes organize the chemical activities of cells.

The outer plasma membrane

 forms a boundary between a living cell and its surroundings

Q +

 Exhibits selective permeability Controls traffic of molecules in and out

Page 2 / 52 -

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# The Cell Cycle

Mrs Minal K Bhurchandi@GNCP Nagpur

### Five Phases of the Cell Cycle

G<sub>1</sub> - primary growth phase
 S - synthesis; DNA replicated
 G<sub>2</sub> - secondary growth phase
 collectively these 3 stages are

### called interphase

✔ M - mitosis ✔ C - cytokinesis

Page 2 / 15 <u>— Q +</u>

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### LEVELS OF ORGANIZATION OF HUMAN BODY

Mrs Minal K. Bhurchandi @ Gurunanak College of Pharmacy, Nagpur

## LEVELS OF ORGANIZATION OF HUMAN BODY

- Anatomy is the study of the structure or form of human body parts and how the body parts are arranged in relation with each other.
- There are many disciplines within anatomy.
- GROSS ANATOMY is the study of what can be seen with the naked eye. It is the study of large structures such as organs, bones muscles etc.
- Involves the technique of DISSECTION.
- Dissection means "to section "or "to cut".

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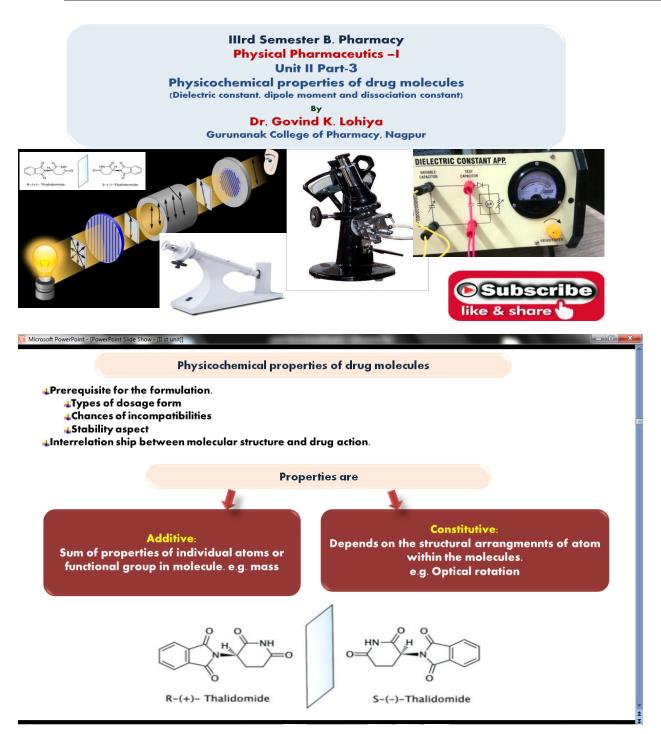
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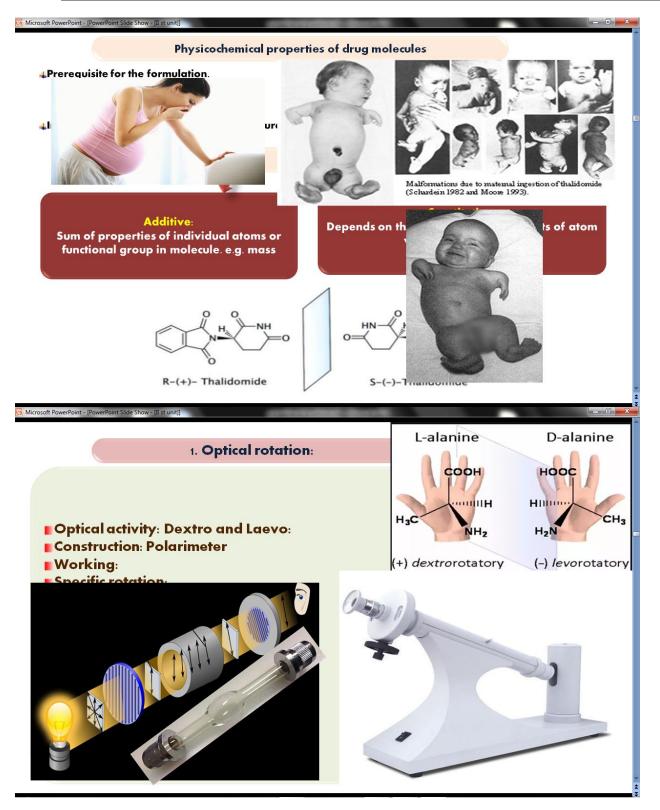
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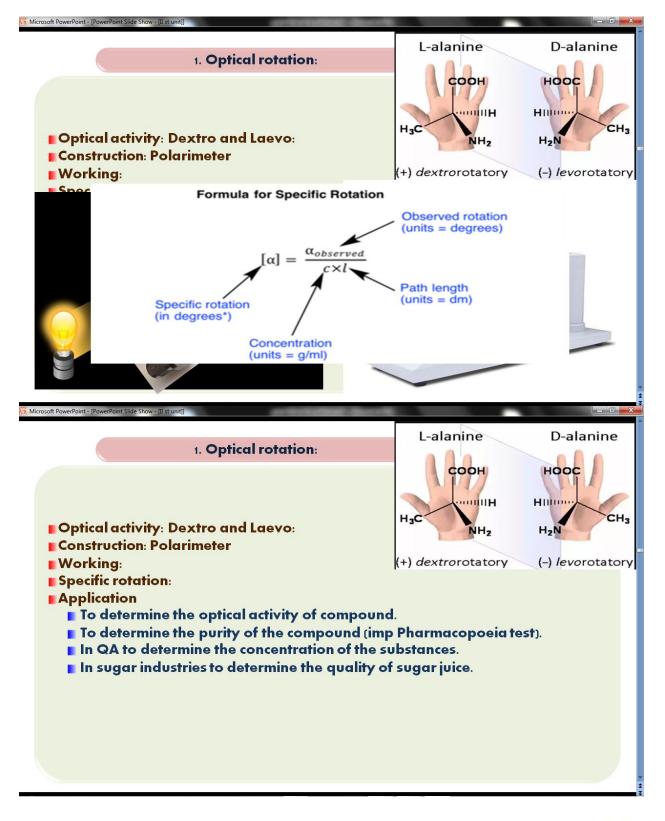
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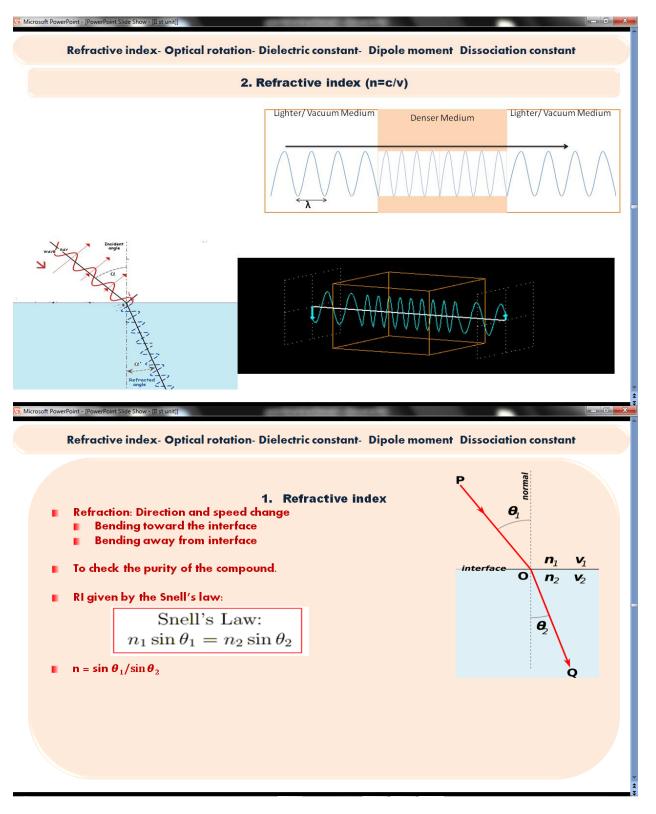
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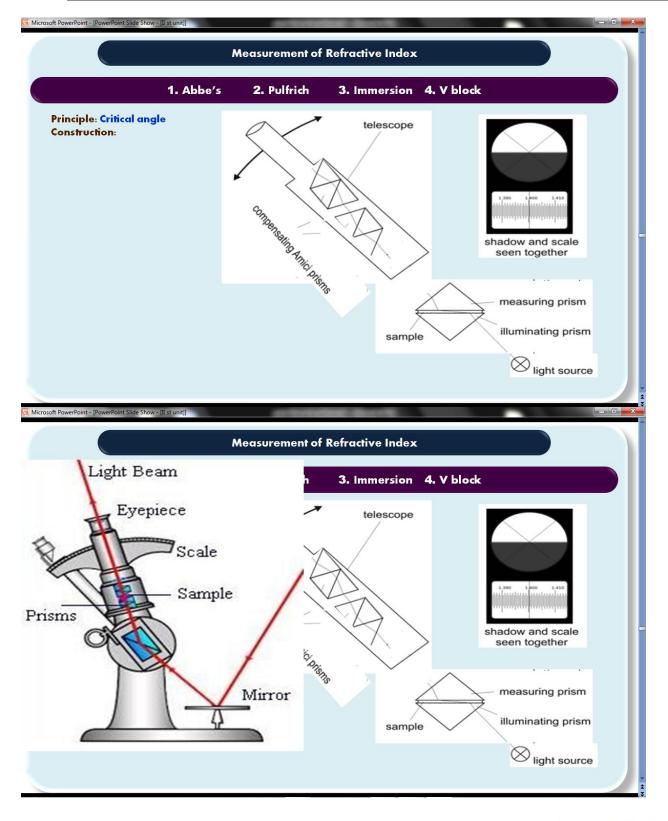
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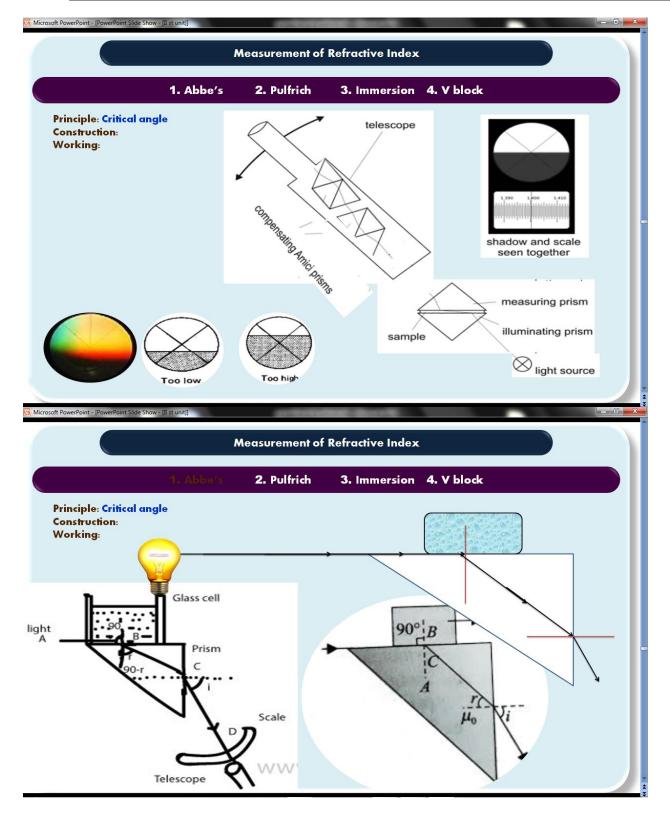
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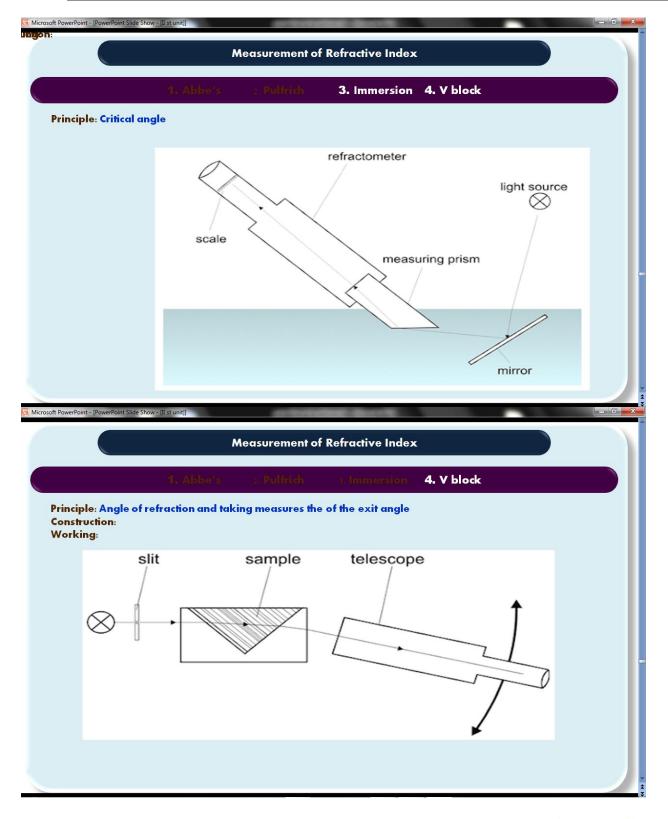
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### Dioscorea



By Dr. Sumit Arora Assistant Professor, Gurunanak College of Pharmacy, Nagpur

#### Dioscorea

Dioscorea belongs to the chemical class of steroids

#### Synonyms

Yam, Rheumatism root

#### **Botanical Source**

Dioscorea is the dried tubers of several species of *Dioscorea* like *D. villosa, D. prazeri Prain and Burk; D. composite; D. spiculiflora; D. deltoidea and D. floribunda* 

Family: Dioscoreaceae.

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### Guggul



By Dr. Sumit Arora Assistant Professor, Gurunanak College of Pharmacy, Nagpur

#### Guggul

Guggul belongs to the chemical class of Resins

#### Synonyms

Gumguggul, Salai-gogil. Scented bdellium, Indian Bdellium

#### **Botanical Source**

Guggal is a oleagumresin obtained by incision of the bark of *Commiphora mukul (H. and S.) Engl., Commiphora weightii.* It should not contain less than 1.0 %band not more than 1.5 % of guggulsterones (Z and E).

Family: Burscraceae

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## Pharmacognosy of Digitalis



By Dr. Sumit Arora Assistant Professor, Gurunanak College of Pharmacy, Nagpur

#### Digitalis

Digitalis herb belongs to the chemical class of Cardiac glycosides.

#### Synonyms

Digitalis leaves, foxglove leaves.

#### **Botanical Source**

Digitalis consists of dried leaves of *Digitalis purpurea*. It should not contain more than 5 % moisture.

Family: Scrophulariaceae.

#### Cultivation, collection and preparation:

It is a biennial or perennial herb of about 1-2 meters.

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## Pharmacognosy of Opium



By Dr. Sumit Arora Assistant Professor, Gurunanak College of Pharmacy, Nagpur

#### Opium

Opium belongs to the chemical class of Isoquinoline alkaloids.

#### Synonyms

Raw Opium

#### **Botanical Source**

It is dried latex obtained by incision from the unripe capsules of *Papaver somniferum Linn*. *It should not contain less than 9.5 % of morphine* calculated as anhydrous morphine.

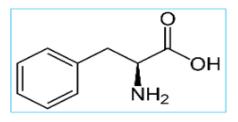
According to British Pharmacopoeia opium required to contain not less than 10 % of morphine and not less than 2.0 % of codeine. The Thebaine content is limited to 3 %.

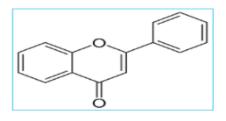
Family: Papaveraceae.

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### Phenylpropanoids and Flavonoids





Phenylpropanoids

Flavonoids

By Dr. Sumit Arora Assistant Professor, Gurunanak College of Pharmacy, Nagpur

#### Lignans

- This is a group of plant nutrients (phytonutrients found in vegetables in fruits, roots, heart wood, seeds, and grains.
- ✓ Lignans are low molecular weight products, formed by the oxidative coupling of p hydroxy phenyl propene units, in which two units are linked by oxygen bridge.
- ✓ They are also found in resinous exudates of plants.
- ✓ Lignans are also optically active compounds.
- ✓ Flax seed is the richest source of plant lignans as compared to rye, buck wheat, millet soya and barley.

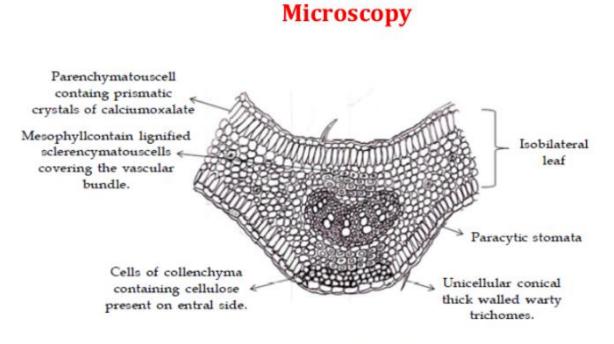
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T.S, of Sema leaflet

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## Drug absorption through GIT: Transport models

LECTURE I BY T.M.RASALA ASSISTANT PROFESSOR

## Transport model : Permeability-Solubility charge state & The pH partition Hypothesis

Fick's first law applied to a membrane shows that passive diffusion of a solute is the product of the diffusivity and the concentration gradient of the solute inside the membrane. For an ionizable molecule to permeate by passive diffusion most efficiently, the molecule needs to be in its uncharged form at the membrane surface.

• Consider a vessel divided into two chambers, separated by a homogeneous lipid membrane. The left side is the donor compartment, where the sample molecules are first introduced; the right side is the acceptor compartment, which at the start has no sample molecules.



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 $D \bullet A \bullet Cs$ 

h

#### FICK'S FIRST LAW OF DIFFUSION APPLIED TO DISSOLUTION

By Fick's first law of diffusion:

Rate of Solution $=$	_	$D \bullet A \bullet (Cs - Cb)$
	-	h

where D is the diffusion coefficient, A the surface area, Cs the solubility of the drug, Cb is the concentration of drug in the bulk solution, and h the thickness of the stagnant layer.

If Cb is much smaller than Cs then we have so-called "Sink Conditions"

#### FICK'S FIRST LAW - SINK CONDITIONS

Rate of Solution =

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#### **BIOEQUIVALENCE PROTOCOL**

BY

T.M.RASALA

Assistant Professor Pharmaceutics Department Gururnanak college of pharmacy

## Elements of Bioequivalence

Study Protocol

1.Title

- a. Principal investigator
- b. Project number and date
- 2. Study objective
- 3. Study design
  - a. Design
  - b. Drug Products
  - i. Test products(s)
  - ii. Reference product
  - c. Dosage regimen
  - d. Sample collection schedule

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### 2.Latin Square Design:

□More than two formulations

Eg: A group of volunteers will receive formulations in the sequence.

Volunteer Number	Period 1	Period 2	Period 3
1	А	В	С
2	В	С	A
3	С	А	В

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### RESEARCH PROPOSAL BY T.M.RASALA ASSISTANT ROFESSOR GNCP, NAGPUR

### **Type of Research study**

- To gain familiarity with a phenomenon or to achieve new insights into it (**Exploratory or formulative** research studies
- To describe accurately the characteristics of a particular individual, situation or a group (**Descriptive** research studies)
- To determine the frequency with which something occurs or with which it is associated with something else (**Diagnostic** research studies)
- To test a hypothesis of a causal relationship between variables (**Hypothesis-testing** research studies).

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#### Guidelines on Evaluation of Safety/Toxicity of Chemical substances

Subject: Biological Evaluation

M. Pharm Semester II

#### Nidhi Sapkal

Gurunanak College of Pharmacy, Nagpur

## Organization of Economic Co-operation & Development (OECD)

No.	Title	Original Adoption	No. of Updates	Updates	Most Recently Updated
401	Acute Oral Toxicity	12 May 1981	1	24 February 1987	Date of Deletion: 17 December 2001
402	Acute Dermal Toxicity	12 May 1981	1		24 February 1987
403	Acute Inhalation Toxicity	12 May 1981	1		7 September 2009
404	Acute Dermal Irritation/Corrosion	12 May 1981	2	17 July 1992	24 April 2002
405	Acute Eye Irritation/Corrosion	12 May 1981	3	24 April 2002 24 February 1987	2 October 2012
406	Skin Sensitisation	12 May 1981	1		17 July 1992
407	Repeated Dose 28-Day Oral Toxicity Study in Rodents	12 May 1981	2	27 July 1995	3 October 2008
408	Repeated Dose 90-Day Oral Toxicity Study in Rodents	12 May 1981	1		21 September 1998
409	Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents	12 May 1981	1		21 September 1998

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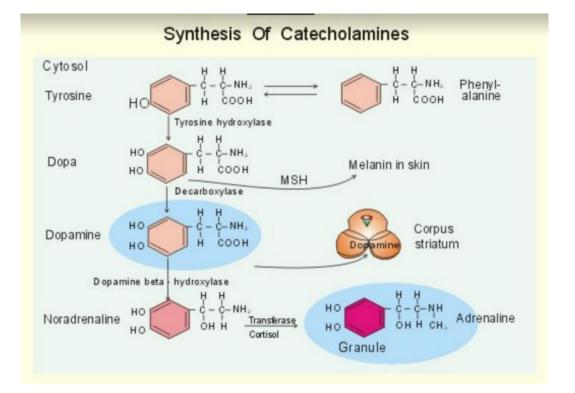
## ADRENERGIC AGONISTS

#### **SYMPATHOMIMETICS**

Subject: Advanced Medicinal Chemistry M. Pharm Semester I

#### Nidhi Sapkal

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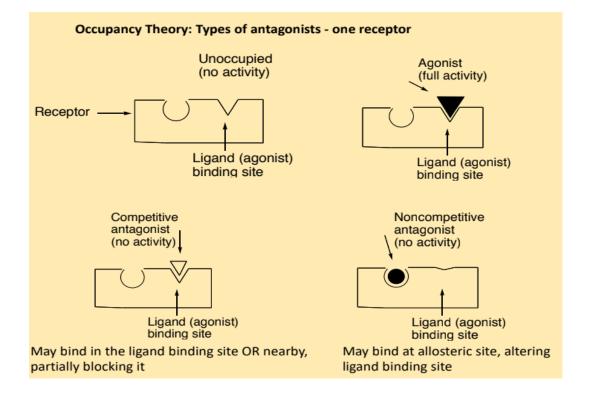
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### **RADIOLIGAND BINDING ASSAY**

Subject: Biological Evaluation M. Pharm Semester II

#### Nidhi Sapkal

#### **Gurunanak College of Pharmacy, Nagpur**



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#### **ECOSYSTEM**

B.Pharm Sem II Environmental Sciences Session 2018:19 Gurunanak College of Pharmacy, Nagpur Prepared by: Shobha Ubgade



Gurunanak College of Pharmacy, Nagpur

### Types

#### ≻Natural

1.Terrestrial ecosystems (grasslands, forests, desert ecosystems)



2.Aquatic ecosystem

a.Lentic (Stagnant water) like lake, ponds etc.

b.Lotic (Flowing water) like river, ocean, sea, etc.

#### ≻Artificial

1.A crop land, garden, aquarium, park, kitchen garden.

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## National AIDS Control Programme

B.Pharm VIII Semester
Gurunanak College of Pharmacy, Nagpur
Prepared by: Shobha Ubgade
Session: 2020:21



- HIV causes AIDS and interferes with the body's ability to fight infections.
- The virus can be transmitted through contact with infected blood, semen or vaginal fluids.
- Within a few weeks of HIV infection, flu-like symptoms such as fever, sore throat and fatigue can occur. Then the disease is usually asymptomatic until it progresses to AIDS. AIDS symptoms include weight loss, fever or night sweats, fatigue and recurrent infections.

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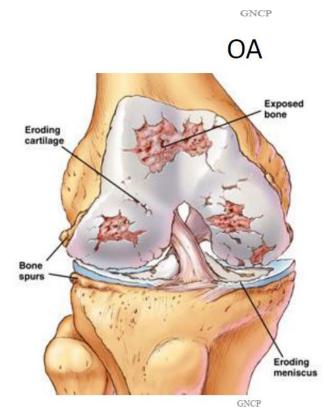
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## Osteoarthritis

Clinical Pharmacotherapeutics I B.Pharm VI Semester Session:2016:17 Gurunanak College of Pharmacy, Nagpur Prepared by: Shobha Ubgade



OA is a disease of joints that affects all of the weight-bearing components of the joint:

ArticularcartilageMenisciBone

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3



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## INDIAN PATENT ACT 1970

By – Dr. V. A. Kilor

Subject- Regulatory Affairs and Intellectual property Rights

Class- B.Pharm SEM-V

### Law and Regulations

- Patents Act, 1970
  - Amended in
    - 1999
    - 2002
    - 2005
- Patents Rules, 2003
  - Amended in
    - 2005
    - 2006

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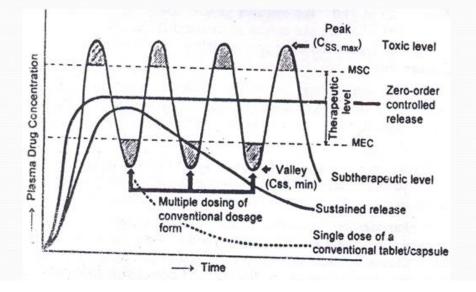
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## Controlled Release Oral Drug Delivery System

By Keshav Moharir Assistant professor Gurunanak College of Pharmacy Nagpur

#### Plasma-drug concentration time profile



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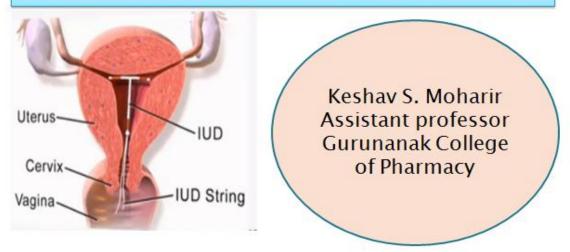


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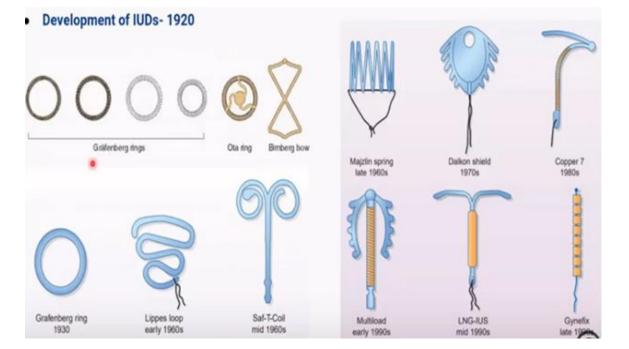
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### Intrauterine Drug Delivery Systems



#### Introduction- Development of Intra Uterine Devices



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## **Combinatorial Chemistry**



Session 2017-18 B. Pharm. VI Sem. PMC-II Ms. Pradnya Gondane Assistant Professor Gurunanak College of Pharmacy, Nagpur

### **Combinatorial library**

Def: Collection of finally synthesized compounds

Size: depends on the number of building blocks used per reaction and the number of reaction steps, in which a new building block is introduced

Typical: 10<sup>2</sup> up to 10<sup>5</sup> compounds

#### **Random Libraries**

- multiple libraries
- many targets
- highly diverse
- mixtures
- > 5.000 compounds
- solid phase synthesis
- non-purified compounds
- on bead screening, if possible

Focused or targeted Libraries

- Template- scaffold library
- one target
- high structural similarity
- single compounds
- << 5,000 compounds</p>
- synthesis in solution, solid phase
- pure compounds
- screening in solution

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**Recording Room for lectures** 



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#### e-Content developed by faculty and available on YouTube/ Slide share platform

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1.	Student Activity by Radha Kapgate and Atharv Tithe_	IIIrd sem	https://youtu.be/fLeRQXbaXPc
2.	Student Activity by Rutuja Sonwane and Urvashi Menghani	IIIrd sem	https://youtu.be/6MnuqjoC83A
3.	Student Activity by Asema Razi and Urvashi Menghani	IIIrd sem	https://youtu.be/dlFWxaZPA2Y
4.	Basics of Patent and How to do Patent search and	For	https://youtu.be/XnPA9wQSDsY

	download from USPTO, WIPO, EPO and Indian Patent	PG	
5.	Effective and efficient use of MS Word in Thesis Writing Part 1	For PG	https://youtu.be/VXdZyuiPzLI
6.	Effective and efficient use of MS Word in Thesis Writing Part 2	For PG	https://youtu.be/7QfjaRYXiw8

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7.	Part 1 of unit 1 Solubility of drugs Physical Pharmaceutics I by Dr Govind Lohiya	IIIrd sem	https://youtu.be/IVK13SguIhQ
8.	Part 2 of unit 1 solubility of drugs Physical Pharmaceutics Mechanism of solute solvent interaction	IIIrd sem	https://youtu.be/hScYS-LlaxM
9.	Part 3 of unit 1 solubility of drugs Physical Pharmaceutics Ideal Solubility parameters	IIIrd sem	https://youtu.be/BYeRr6M0wMU
10.	Part 4 of unit 1 solubility of drugs Solvation and Association Physical Pharmaceutics	IIIrd sem	https://youtu.be/hCWCMZp7qrg
11.	Part 5 of unit 1 solubility of drugs Factors affecting solubility of drugs Physical Pharmaceutic	IIIrd sem	https://youtu.be/RE-jXfa_gzM
12.	How to measure surface tension of liquid at home with homemade stalagmometer?	IIIrd sem	https://youtu.be/ndVxentXsQU

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	1		
13.	Part 6 of unit 1, Diffusion principles in biological,	IIIrd sem	<u>https://youtu.be/i-TIoEbUGkk</u>
	Solubility of drugs Physical Pharmaceutics I		
14.	Part 7 of unit 1 solubility of	IIIrd	https://youtu.be/qZTNwDLAsl4
	gas in liquid , Solubility of	sem	
	drugs Physical Pharmaceutics I		
15.	Part 8-Unit 1 Solubility of drugs: solubility of liquid in liquid, Raoults law, Ideal	IIIrd sem	https://youtu.be/9FGkYwQFuwU
	solutuion PP-I		
16.	Part 9 of unit 1: Solubility of Drugs PP-I: Partial miscibility with Phenol	IIIrd sem	https://youtu.be/Yd8eAGFLuvg
	water system		
17.	Part 10 of unit 1 Solubility of Drugs of PP I: Nernst's Distribution law or Distribution coefficient	IIIrd sem	https://youtu.be/BGqyD6sEY4E
18.	Chemical Kinetics Part-1_ Dr G K Lohiya		https://www.youtube.com/watch?v=TsfOjPi5 gbQ&list=PLRgh10_4tPGd33muBaFpWN8 mNJsGMkKFj&index=2&t=4s
19.	Chemical Kinetics Part 2 Dr G K Lohiya	IVth Sem	https://www.youtube.com/watch?v=170Qob Dhq6A&list=PLRgh1O_4tPGd33muBaFpW N8mNJsGMkKFj&index=7

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20.	Chemical Kinetics Part 3 Dr G K	IVth Sem	https://www.youtube.com/watch?v=emtKLV
	Lohiya		HTrcA&list=PLRgh1O_4tPGd33muBaFpW
			N8mNJsGMkKFj&index=2
21.	Chemical Kinetics Part 4 Dr G K	IVth Sem	https://www.youtube.com/watch?v=170Qob
	Lohiya		Dhq6A&list=PLRgh1O_4tPGd33muBaFpW
			N8mNJsGMkKFj&index=7
22.	Chemical Kinetics Part 5 Dr G K	IVth Sem	https://www.youtube.com/watch?v=EOV12J-
	Lohiya		<u>B-</u>
			Bo&list=PLRgh1O_4tPGd33muBaFpWN8m
			NJsGMkKFj&index=9
23.	Chemical Kinetics Part 6 Dr G K	IVth Sem	https://www.youtube.com/watch?v=jXpkaFb
	Lohiya		qS4s&list=PLRgh1O_4tPGd33muBaFpWN8
			mNJsGMkKFj&index=8

24.	Chemical Kinetics Part 7 Dr G K Lohiya	IVth Sem	https://www.youtube.com/watch?v=Px_LG0o zT4E&list=PLRgh10_4tPGd33muBaFpWN8 mNJsGMkKFj&index=4
25.	Chemical Kinetics Part 8 Dr G K Lohiya Physical and chemical factors influencing the chemical degrat	IVth Sem	https://www.youtube.com/watch?v=aJYBdK BJelY&list=PLRgh10_4tPGd33muBaFpWN 8mNJsGMkKFj&index=5
26.	Chemical Kinetics Part 9 Dr G K Lohiya Physical and chemical factors influencing the chemical degr	IVth Sem	https://www.youtube.com/watch?v=5HaolJFg ywE&list=PLRgh1O_4tPGd33muBaFpWN8 mNJsGMkKFj&index=6
27.	Stability Testing Q1AR2 Part 1_Dr. Govind K. Lohiya	VIth Sem	https://www.youtube.com/watch?v=H45rjlLf <u>z-</u> <u>Q&amp;list=PLRgh1O_4tPGc2fCC4LREQ_iVAll</u> <u>yJ4Wr8&amp;index=8</u>

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28.	Stability Tersting Q1AR2 Part	VIth Sem	https://www.youtube.com/watch?v=ug2yce5I
	2_Dr. Govind K. Lohiya		M28&list=PLRgh10_4tPGc2fCC4LREQ_iV
			<u>AllyJ4Wr8&amp;index=7</u>
29.	Stability Tersting Q1AR2 Part 3	VIth Sem	https://www.youtube.com/watch?v=bU39Xn
	Dr G K Lohiya		SC6Cg&list=PLRgh1O_4tPGc2fCC4LREQ_
			iVAllyJ4Wr8&index=6
30.	Photo Stability Testing Q1B Dr G	VIth Sem	https://www.youtube.com/watch?v=6xt1S5n
	K Lohiya		U5U0&list=PLRgh1O_4tPGc2fCC4LREQ_i
			VAllyJ4Wr8&index=5
31.	Stability Tersting Q1D Part 1 Dr	VIth Sem	https://www.youtube.com/watch?v=eHUqFw
	G K Lohiya Bracketing and		nrH_o&list=PLRgh1O_4tPGc2fCC4LREQ_i
	Matrixing		VAllyJ4Wr8&index=2
	Design		
32.	Stability Tersting Q1D Part 2 Dr	VIth Sem	https://www.youtube.com/watch?v=TDNx1a-
	G K Lohiya Bracketing and		JtKc&list=PLRgh1O_4tPGc2fCC4LREQ_iV
	Matrixing		AllyJ4Wr8&index=1
	Design		
34.	NABL Part 2 Dr G K Lohiya	VIth Sem	https://www.youtube.com/watch?v=dsc2SqF
	National Accreditation Board of		hURE&list=PLRgh10_4tPGc2fCC4LREQ_i
	Testing and Calibration		VAllyJ4Wr8&index=3
	Laboratories		
35.	How to Use Google class room to	Online	https://www.youtube.com/watch?v=IlWrAm8
	submit assignments?	content	v7Yc&list=PLRgh1O_4tPGcMHPEpV8hZ5
			Ak1ZK1pt1me
36.	Google Classroom Assignment	Online	https://www.youtube.com/watch?v=Vdnr-
	rubrics creations and study	content	Db6au0&list=PLRgh1O_4tPGcMHPEpV8hZ
	material		5Ak1ZK1pt1me&index=3
L	1	1	

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37.	How to Croate Coogle Forms	Online	https://www.youtube.com/watch?v=7C4Fxbp
	0	content	
	MCQ Assignment	content	Pru8&list=PLRgh1O_4tPGcMHPEpV8hZ5A
	through Google Classroom and		<u>k1ZK1pt1me&amp;index=4</u>
	Google Form?		
20		Ord	https://www.contella.com/contella.com/contella.com/contella.com/contella.com/contella.com/contella.com/contella
		Online	https://www.youtube.com/watch?v=ayNBC1
	through google classroom ?	content	R8ssc&list=PLRgh1O_4tPGcMHPEpV8hZ5
		<u> </u>	<u>Ak1ZK1pt1me&amp;index=5</u>
39.	How to use Google classroom	Online	https://www.youtube.com/watch?v=cVDaG
	App on mobile? A video Guide for	content	M4RZ-
	the Teachers		o&list=PLRgh1O_4tPGcMHPEpV8hZ5Ak1
			$\overline{ZK1pt1me\&index=6}$
40.	Tribute to Corona Warriors from	Social	https://www.youtube.com/watch?v=4Crui6zf
	Dr Govind K Lohiya Nagpur		HqE&list=PLRgh1O_4tPGcMHPEpV8hZ5A
		Aware	
		ness	<u>k1ZK1pt1me&amp;index=2</u>
41.	Part 1 UNIT V PP I pH,	IIIrd	https://youtu.be/VqCsQMWfB0s
	buffers and Isotonic	sem	
	solutions Sorenson pH		
	Scale		
42.	Part 2 UNIT V PP I pH,	IIIrd	https://youtu.be/IPQeSQNwupE
	buffers and Isotonic	sem	
	solutions Measurement of		
	pH Electrometric &		
	colorimetric		
43.	Part 3 UNIT-V, PP-I: pH,	IIIrd sem	https://youtu.be/vizz5FzDBb4
	-		
	buffers and Isotonic solutions		
	Buffer equation, Henderson		
	Hasselbalch eq		
L		.I	

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44.	Part 4 UNIT V PP I pH,	IIIrd sem	https://youtu.be/mgI66Wu_V5M
	buffers and Isotonic		
	solutions Application of buffers		
	in Pharmacy PP-I		
45.	Part 5 UNIT V PP I pH,	IIIrd sem	https://youtu.be/bNTZmNPzk8c
	buffers and Isotonic solutions Buffer capacity and maximum buffer capacity, P		
46.	Part 6 UNIT V PP I pH,	IIIrd sem	https://youtu.be/T6k2aoGSoLA
	buffers and Isotonic solutions:Buffer in pharmaceutical and		
	biological system		
47.	Part 1: UNIT II of PP I :	IIIrd sem	https://youtu.be/v5Pj5lK9D_0
	Physicochemical properties of the drug molecules: Optical rotation		
48.	Part 2 UNIT II PP I	IIIrd sem	https://youtu.be/vSImj8w8hOc
	Physicochemical properties of the drug molecules Refractive Index		
Vide	os by Dr. S. K. Arora	11	
49.	How to use Mendeley- Reference Management		https://www.voutubo.com/watch2v=Eu
	Software		https://www.youtube.com/watch?v=5u- uqS3FZsE

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50	Users to Chards Discissions?	<b>P</b>	
50.	How to Check Plagiarism?	For	https://www.youtube.com/watch?v=w4Vtxm
		PG	pGQQ4
51.	How to Reduce Plagiarism?	For	https://www.youtube.com/watch?v=EyqV1yb
		PG	<u>rb74</u>
52.	Pharmacognosy of Senna	IVth Sem	https://www.youtube.com/watch?v=GvFJ72Z
	leaflet		<u>ub8k</u>
53.	Pharmacognosy of Digitalis	IVth Sem	https://www.youtube.com/watch?v=svzGWG
			<u>imY_k</u>
54.	Pharmacognosy of Clove	IVth Sem	https://www.youtube.com/watch?v=vjipbugd
	Buds		<u>8nU</u>
55.	Pharmacognosy of	IVth Sem	https://www.youtube.com/watch?v=iZqgMp_
	Cinnamon		<u>oLCc</u>
56.	Pharmacognosy of	IVth Sem	https://www.youtube.com/watch?v=gEfQUA
	Rauwolfia		<u>0zwkU</u>
57.	Pharmacognosy of Opium	IVth Sem	https://www.youtube.com/watch?v=JKoH7X
			b-ZZA&t=2s
58.	Pharmacognosy of	IVth Sem	https://www.youtube.com/watch?v=37fM-
	Belladonna		dvZess&t=2s
59.	Pharmacognosy of Ginger	IVth Sem	https://www.youtube.com/watch?v=II7A3U5
			<u>GBkg</u>
60.	Pharmacognosy of Fennel	IVth Sem	https://www.youtube.com/watch?v=Ki0GJLR vWmQ
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61.	Pharmacognosy of Vinca	IVth Sem	https://www.youtube.com/watch?v=BvQQ9E DzgSw
62.	Pharmacognosy of Coriander	IVth Sem	https://www.youtube.com/watch?v=TI3Sz_i5 X9A
63.	Pharmacognosy of Liquorice	IVth Sem	https://www.youtube.com/watch?v=VY0xCA VJBRk
64.	Pharmacognosy of Asafoetida	IVth Sem	https://www.youtube.com/watch?v=g2UEyR
65.	Pharmacognosy of Aloe	IVth Sem	bTdf8 https://www.youtube.com/watch?v=WVUgN gI0Ekw
66.	Pharmacognosy of Bitter Almond	IVth Sem	https://www.youtube.com/watch?v=eYY_IH vFBCE
67.	Mentha	IVth Sem	https://www.youtube.com/watch?v=E00enk9 bYGI
68.	Pterocarpus	IVth Sem	https://www.youtube.com/watch?v=XU4jVV j3SDw
69.	Dioscorea	IVth Sem	https://www.youtube.com/watch?v=6r2DPJX 7JWM
70.	Catechu	IVth Sem	https://www.youtube.com/watch?v=qw8p_Fq cmAE
71.	Myrrh	IVth Sem	https://www.youtube.com/watch?v=f- dQZoqBnoI
72.	Colophony	IVth Sem	https://www.youtube.com/watch?v=G6apHY ohYdg

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-		1	
73.	Creation	IVth	https://www.youtube.com/watch?v=dRdLFT
	Guggul	Sem	<u>y7Zs0</u>
			<u>y1230</u>
74.		IVth	https://www.youtube.com/watch?v=7p296M1
	Benzoin	Sem	UGDk
75.	Phenylpropanoids and	IVth	https://www.youtube.com/watch?v=jjKNyfB
		Sem	
	Flavonoids		FAYk
76.		IVth	https://www.youtube.com/watch?v=O9yYA6
70.	Iridoids and Napthquinones	Sem	<u>Intps://www.youtube.com/watch?v=09y1A0</u>
	I I I I I I I I I I I I I I I I I I I	Sem	MRHNc&t=18s
	Vida	og hy Dr	S. R. Yende
	vide	$\frac{1}{1000}$	5. N. 1 CIIUC
77.	Preclinical	PG	
	Experimentation: An		
	overview		https://youtu.be/9Sokg3gAHOs
78.		DC	https://www.youtube.com/watch?v=_r7Ff9aT
70.	Approval of Preclinical	PG	7nQ
	Experimental Protocol		
79.	Experimental Trotocol	IV	https://www.youtube.com/watch?v=RBVDy
1).	Drug Discovery and		WNHfNQ
	Drug Discovery and	sem	WINING
	Development		
		e content l	by Dr. S. R. Yende
80.			
	Mechanism of inflammation		https://www.slideshare.net/SubhashR10
81.	Preclinical experimentation: An	VII	https://www.slideshare.net/SubhashR10
-	overview	sem	
82.	Commonly used Laboratory	VII	https://www.slideshare.net/SubhashR10
0.5	Animals	sem	
83.	Hospitals and its organization	VII	https://www.slideshare.net/SubhashR10
		sem	
84.	Drug distribution system in	VII	https://www.slideshare.net/SubhashR10
0.5	Hospital	sem	
85.	Adverse drug reaction	VII	https://www.slideshare.net/SubhashR10
0.5		sem	
86.	Hospital Formulary	VII	https://www.slideshare.net/SubhashR10
07		sem	
87.	Therapeutic Drug Monitoring	VII	https://www.slideshare.net/SubhashR10
		sem	

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88.	Medication adherence	VII	https://www.slideshare.net/SubhashR10
	Medication adherence	sem	
89.	Patients medication history	VII	https://www.slideshare.net/SubhashR10
	<u>interview</u>	sem	
90.	Community Pharmacy	VII	https://www.slideshare.net/SubhashR10
	Community Fharmacy	sem	
91.	Community Pharmacy	VII	https://www.slideshare.net/SubhashR10
	<u>Management</u>	sem	

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### **ICT Techniques:**

#### Gurunanak College of Pharmacy, Nagpur FLIPPED CLASSROOM ACTIVITY CONSTRUCTOR

#### Subject:- Pharmaceutical Organic Chemistry-II

<u>Topic</u> Write structure and uses of Naphthalene, anthracene, phenanthrene, diphenylmethane, triphenylmethane and their derivatives.

Target Group : B.Pharm III Semester students

#### Contents:

- 1. Out-of-Class activity Design
- 2. In-the-Class activity Design
- 3. End of the class with summation

#### 1. Out-of-class Activity Design

Learning objectives of the Out of class activity

- To get acquainted with thestructures and uses of Naphthalene, anthracene, phenanthrene, diphenylmethane, triphenylmethane and their derivatives
- b. To be ready with their own PDF file of above mentioned topic.

#### Uploaded Video URL :

https://www.youtube.com/watch?v=DEtlSyvPQ6Y

Duration of Screen cast: 10:17 min

Aligning Assessment with Learning Objective:

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Learning Objectives	Assessment	Expected	Additional
	Strategy	durati	Instructions (if
		on	any)
To get acquainted with the structures and uses of Naphthalene, anthracene, phenanthrene, diphenylmethane, triphenylmethane and their	On the basic of PDF file prepared from material collected from internet and YouTube	At least one week	If needed find other material related to the topic from Google as well as YouTube
derivatives	Domombor structure		
	Remember structure, its IUPAC name, its		
	preparation and uses efficiently		

#### 2. In-Class Activity Design

Learning objectives

- a. Understanding of the topic with the help of e-Content using web as well as videos.
- b. Remember structure, its IUPAC name, its preparation and uses efficiently.
- c. Explaining it properly to their peers.

#### Peer Instructions: (15 minutes)

Students are asked to be ready with their PDF file.

What Instructor does: Read PDF files, Poses Question, Let student pair and discuss, ask them to decide who will explain the topic and finally summarizes the topic.

What student does: Vote for question, Discuss with neighbor, Come to agreement, Listens to summary by instructor.

#### 3. Assessment of the activity and end of the class with summation

Assessment (10 minutes): The best answer in the PDF file by student was selected by teacher. The excellent prepared PDF file was acknowledged and encouraged for the further participation.

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Out-of-class Activity	
Learning objectives of the Out of class activity	
A	
To get acquainted with the various terminology used in the MS-Word.	
Out-of-class Activity	
Uploaded Video URL :	
Moodle Site: https://gncpict.moodlecloud.com/	
License of Video : CONTRACTOR :	
Duration of Screen cast : 10:17 min * Ensure that you give a Creative-Commons License to	
the uploaded video	
Out-of-class Activity	
Aligning Assessment with Learning Objective:	1
2	
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	Dr. A. M. Ittadwar Principal
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# Assessment of the activity and end of

Assessment (10 minutes): The rightly placed headings are considered as the rankers participants and the participants can correct the headings of the colleagues are also rankers. The excellent prepared MS-Word draft can acknowledged and encouraged for the further participation

The overall constructors prepare students for effectively creating the MS-Word Draft for their projects and thesis with reference to auto indexing.

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#### Gurunanak College of Pharmacy, Nagpur 19<sup>th</sup> June 2021

Instructor Resources

Resource – Think-Pair-Create-Share Activity constructor June

Domain: Pharmacy Topic: Emulsion

Target: B. Pharm IV Semester Students (in the view of the COVID-19 situation the activity designed the experimentation part which can be performed at home)

Learning objectives:

To know about the emulsion definition and contents of emulsion formulation. To know about the surface tension and concept of surfactant.

To learn about available emulsion formulation (edible) and their properties (physical).

#### Think phase:

1. What are the different fact formulation?	tors to be considered during emulsion	Duration 12 hrs		
<ol><li>In home do we have some (Like mayonnaise)?</li></ol>	e edible emulsion formulation available	Today night up to		
	me available emulsion formulation) ne flavor addition and some colour	10:00pm		
4. What is the need of marke	et? Can we fulfill the need by doing			
modification existing form	nulation? YES/NO			
Students to think and search about	it and write an individual answer.			
Deliverable from this Phase: Stude parameters	nts will know about different emulsion conc	ept and		
to be consider for emulsion formulation, problem analysis.				

to be consider for emulsion formulation, problem ana

#### Pair phase:

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By today evening after 10pm individual student can post the answer in our	Durat	ion	
		-	
college whatsup group about home available edible emulsion formulation.	10	min	
Whether it is possible to formulate this at home or not?	only		
Those having similar formulation answer and suitability can be included in	(to		
one group	post	the	
	answe	ers in	
	group	)	
Make a group of 5-6 students to discuss about the further practical consideration part.			
Students pood to do: Poirs up with closemate, check other person answers and discuss			

Students need to do: Pairs up with classmate, check other person answers and discuss your

answers with other person in your group and note down it in individual notebook. Deliverable from this Phase: Students can link between formulation consideration about emulsion

and stability parameters.

#### Create phase:

Those groups having YES answer in above think phase Q. 3 can now	Duratio
design a concept paper. (group activity divide your task as per suitability)	n 12 hrs
	Sunday

1.	Title of your project (Must be like a brand name which you would	morning
	like to give your product)	9:00 am to
2.	Requirements:	9:00pm
3.	Procurement: (Vendor qualification)	
4.	Detailed procedure and what modification you are going to make with reason.	
5.	Prepare check list before experimental setup.	
6.	Start the preparation step by step and record IPQC (in process quality control) if any applicable at home. (not necessary to use sophisticated lab instrument whatever available at home you can use)	
7.	Like optical measurement with I phone having zoom gadget can be used for texture and globule size analysis.	
8.	Fill into final container and prepare a label comparable to already available marketed formulation.	
Studer	nts can link between theoretical and practical aspect, market search,	product
design	and	-
even s	ome marketing aspect.	

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#### Share phase

Be ready with presentation and one presenter from your group.	Duration		
Consider this as opportunity and you are going to present your work in	:Tuesday		
front of investor (who are willing to invest in this project and only one	morning (up		
project will be selected from entire students groups of our class).	to 9:10 am)		
Present your work only in 3 minute (no extra second will be provided	We will go		
above three minute).	with		
Presentation include Title, Group member, Mentor name, Procedure,	presentation		
Modification, advantages or reason to modify existing formulation,	in our		
Proposed retail price (MRP) and cost to company.	lecture		
Also give the profit margin per 100 unit sell.	timing		
Deliverable from this Phase: This is the most critical phase at it deals with investor, presentation skills, market search and market potential.			

Result of the activity:

( Principal

Dr. A. M. Ittadwar Principal Gurenesek College of Pharmacy Nari, Near Dixit Nagar, Boleind C.P. Feundry Kamptee Road, Negour-440 926



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# Choose a product that supports your wellness & helps you feel GORGEOUS!



INGREDIENTS	QUANTITY	BENEFITS
1. Aloevera gel	19 ml	Cooling properties, anti-inflammatory properties, provides moisture, heals and reduces blemishes.
2. Glycerine	4ml	Humectant and a best natural preservative.
3. Almond oil	3ml	Rich in vitamin E.
4. Tea tree oil	1ml	Prevents skin infections, acne.
5. Rose water	2ml	Anti-bacterical properties and gives a sweet natural odour.
6. Beet root juice	1ml	Lightens the skin, rich in vitamins and gives a beautiful colour and texture to the product.



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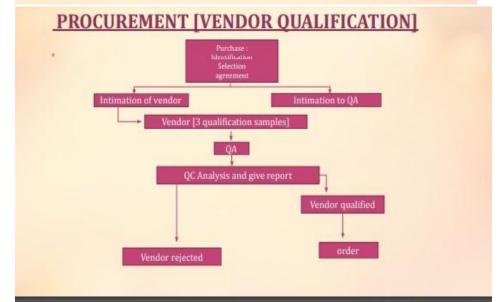
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#### DESCRIPTION

- Aloe serum, with the power of aloevera and tea tree oil, helps you achieve a radient glow, reduce acne and gives immense nourishment to the face.
- The face serum is free from harmful chemicals such as parabens, silicones, etc. It is a pure natural product prepared with beauty of nature.

#### How to use :

- Take a little amount of serum on your fingertip.
- Gently apply all over the face and neck and massage in a upward circular motion until completely absorbed.
- For the best results, apply twice a day.



#### PROCEDURE

Take the below ingredients
 ALOEVERA GEL [19ML]
 GLYCERINE [4ML]
 ALMOND OIL [3ML]
 ROSE WATER [2ML]
 TEA TREE OIL [1ML]

BEET ROOT JUICE [1ML]



2. In a bowl mix all the above ingredient and with the help of grinder machine prepare an emulsion.

#### **MODIFICATION**

- What is modified?
- A standard natural aloevera gel is modified into an aloe serum [emulsion].
- Reason : [advantages]
- To enhance its properties
- Adding almond oil make it rich in vitamin E
- Adding rose water and tea tree oil make it antibacterical, help in preventing skin infection and also give odour to the product.

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DR EACH 30 MI			RETAIL PRICE:	
ngredients	Qty	Cost	Total	<b>76.02</b> ₹   51.02%
Aloevera gel	19ml	24.7/-	Manufacturing Cost	(manufacturing cost - 72.27₹ +
Glycerine	4ml	4.5/+		labour, electricity, package, storage
Almond oil	3ml	12.75/-		and others - 3.75₹)
Rose water	2ml	6/-	Profit	31.26₹   20.79%
Rose water	2m1	0/*	GST	41.72₹ 28%
Tea tree oil	1ml	23.32/-	Maximum Retail	149/-
Beet root juice	1ml	1.0/-	Price	
Total	30ml	77.77/	For 100 products	100 x 31.26
10(3)	SUMI	72.27/-	Profit	3.126/-



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#### Use of Software for animal experimentation

#### Pharmacology laboratory uses licensed software for demonstration of practicals



BUREAU FOR HEALTH & EDUCATION STATUS UPLIFEMENT (Constitutionaly Entitled As- Health Education Bureau) Address: 55/20, Rajat Path, Mansarovar, Jaipur, Rajasthan, Pin:302020 Contact:0141-2783681, 9636348191 Mail: serviceheb@gmail.com, support@heb-nic.in Website: www.heb-nic.in

Proforma Invoice/Quotation

Date: 14/01/2020 Proforma Invoice/Quotation No.: 241/2020 GST Reg. No: 08AJAPA7570J128 Category: Institution

Billing Address	Office Address
Gurunanak College of Pharmacy,	Gurunanak College of Pharmacy,
Nari, Kamptee Road, Nagpur,	Nari, Kamptee Road, Nagpur,
440026, Maharashtra.	440026, Maharashtra.

Quantity	Description (Subscription)	Duration	Unit price	Discount	GST	Total
1.	Experimental Pharmacology Series (Ex-Pharm Series) Software	3 Years	25,040 ₹ (Full Pack- For all active modules)	2,504₹	4,056 ₹	26,592₹
				S	ub Total	26,592 ₹
All Demand Draft & Cheque should be in favor of "Health Education Bureau" Payble at Jaipur,			I	Remarks	-	
Rajasthan					Total Due	26,592 ₹
inal invoice will be issued at the completion of payment.						

Remit payment in INR to Following Account Details: Account Name: Health Education Bureau, Bank: UCO Bank Branch: Mansarovar, Jaipur, Rajasthan Account No.20960210003121, IFSC Code: UCBA0002096 Address: 55/20, Rajat Path, Mansarovar, Jaipur, Rajasthan (India), PIN-302020

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Date:12/01/2020 Ref. No: HEB/EPS/2020/7133

To The Principal, Guru Nanak College of Pharmacy, Khasra No. 81/1, Mauza Nari, Near Dixit Nagar Behind C. P. Foundary, Kamptee Road, Nagpur - 440 026

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Dear Sir,

In response to subscription request and subscription amount received from you, we are here by sending you the dedicated password of Experimental Pharmacology Series (Ex-Pharm Series) Software and the invoice (attached with letter).

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You will be receiving further communications time to time also.



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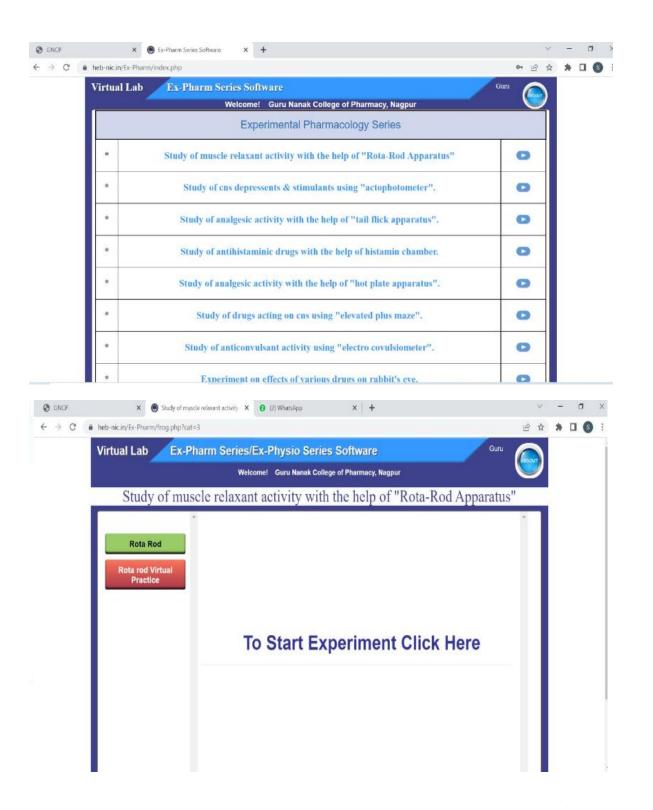
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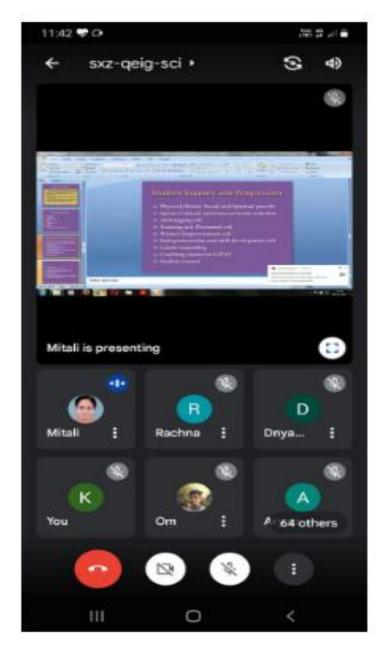


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#### Google classroom based exam and classes



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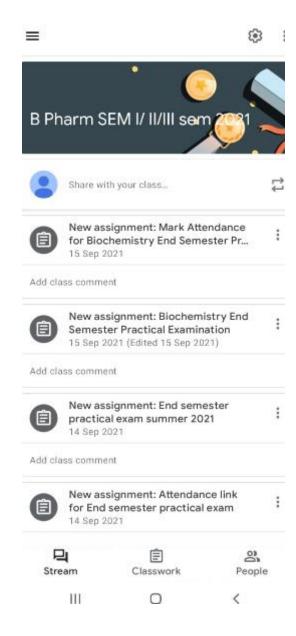
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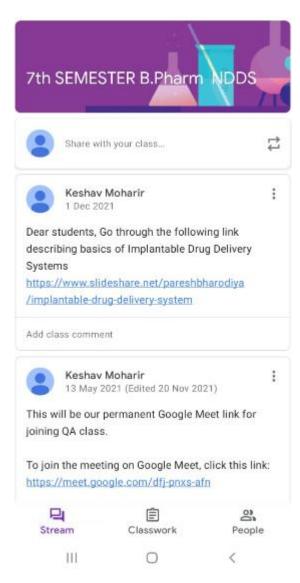
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