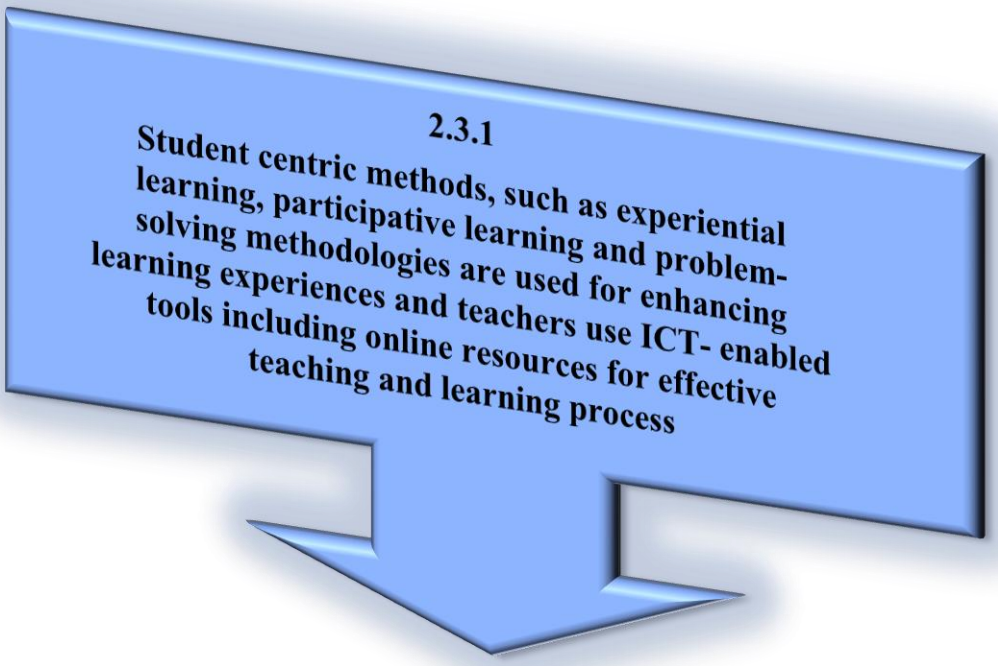
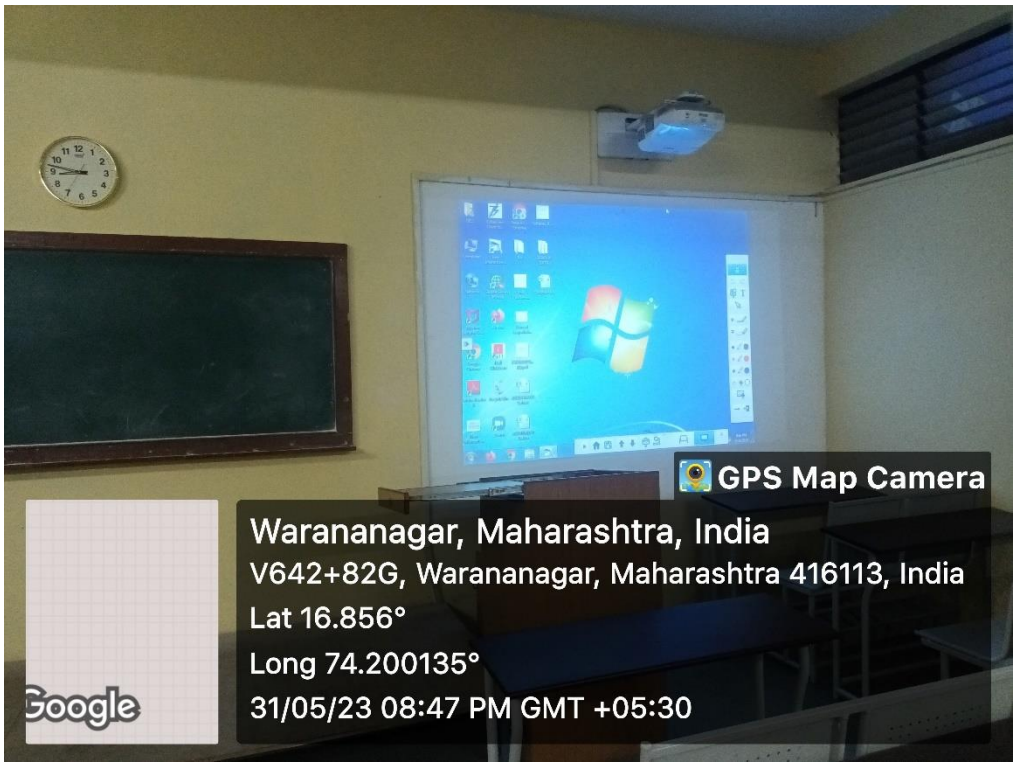
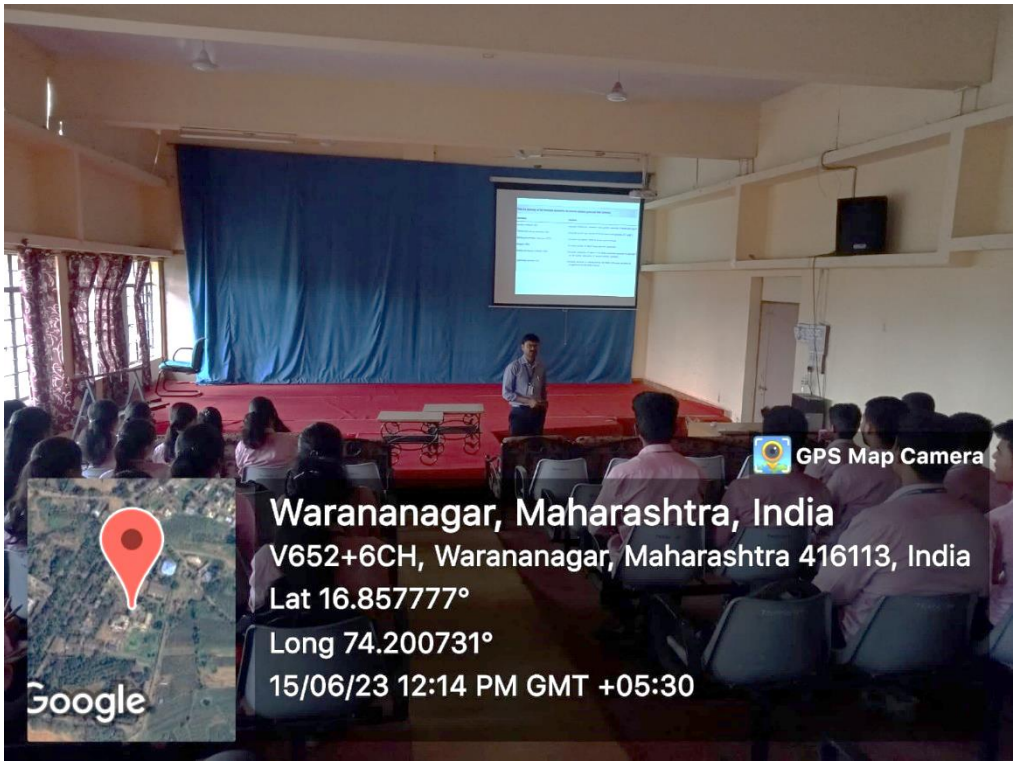
Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process





ICT enabled Classroom



ICT enabled Auditorium

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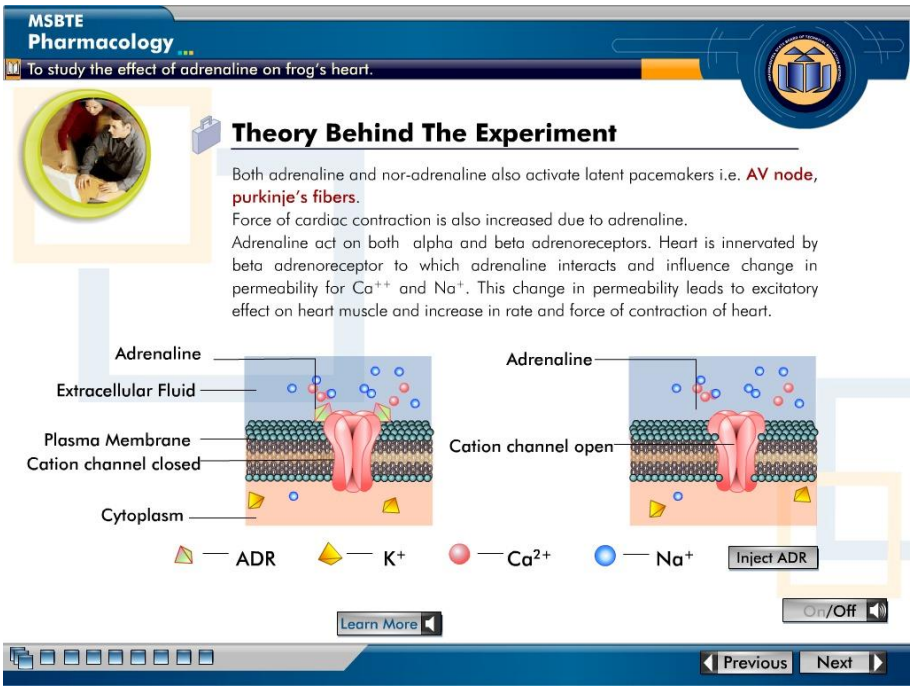
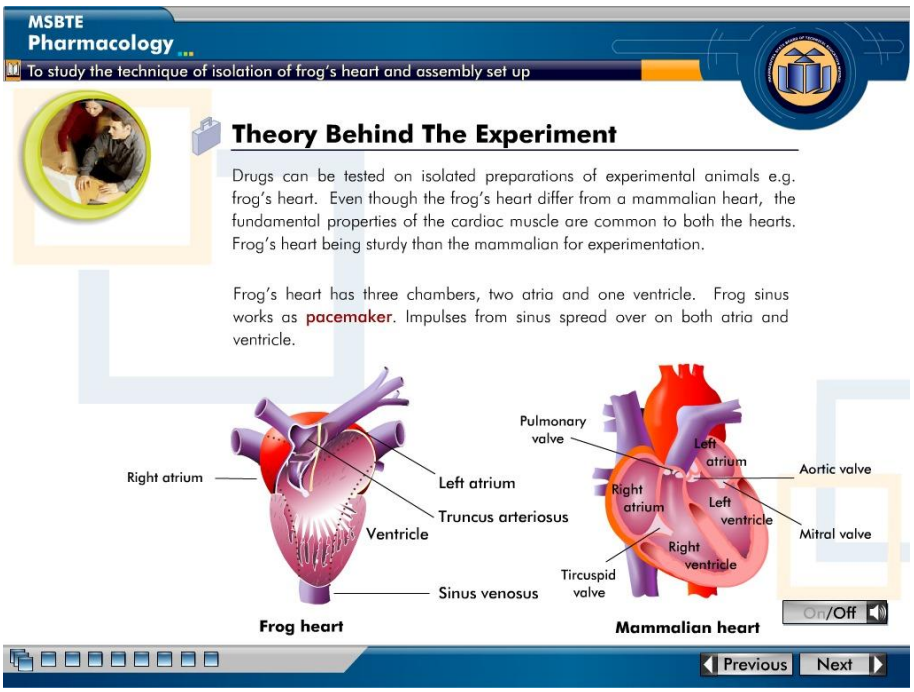


1. Software for ICT based demonstrative practical



2. ICT based demonstrative practical

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Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process

METHODS	DESCRIPTION
Experiential Learning	The curriculum of B. Pharmacy is divided in Theory and practical.
	Project work
	Mini Project
	Lab Work
	Exhibition
Participative Learning	Brainstorming
	Mind maps
	Flipped Class
Problem solving methodology	Differential assignment based on problem solving ability
	Practical based on problems
	Open Book tests
Co-operative Learning	Think-pair-share
	Reciprocal questioning,
	Debates/ Discussion
	Describing & explaining
Collaborative Learning	Daily Discussion Questions
	Group discussions
ICT Enabled Teaching	Wi-Fi enabled Classroom
	LCD
	Smart Class Room
	Educational Videos (YouTube)
Traditional teaching	Lecture with help Social Platform
	Black board

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Criteria 2: Teaching-learning and Evaluation
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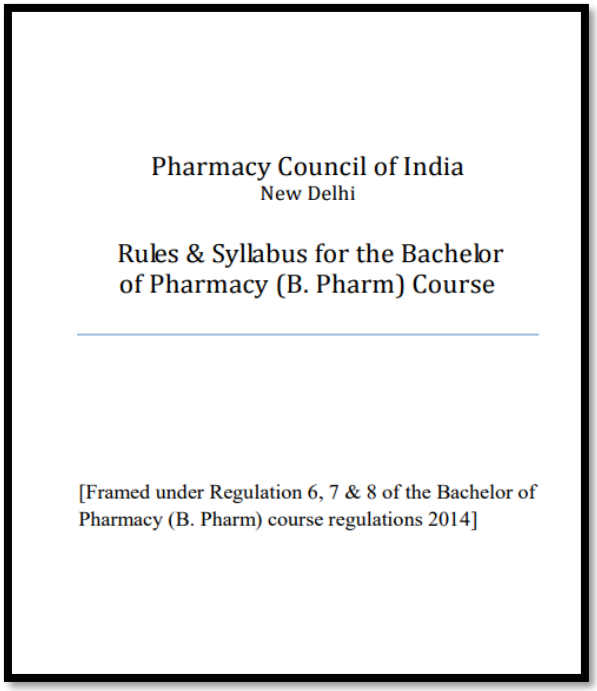
PHOTO GALLERY OF PROOF

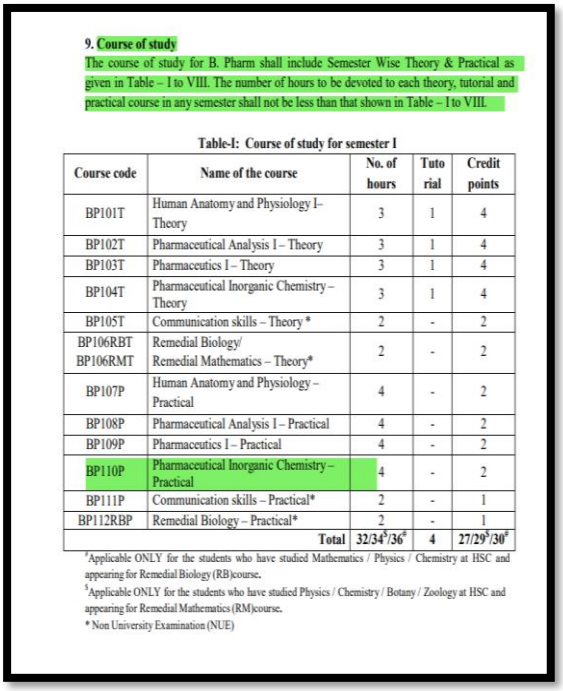
Experiential Learning	The curriculum of B. Pharmacy is divided in Theory and practical. The main purpose of experiential learning is majorly fulfilled by practical curriculum.



Pharmacy Council of India
New Delhi

Rules & Syllabus for the Bachelor of Pharmacy (B. Pharm) Course

[Framed under Regulation 6, 7 & 8 of the Bachelor of Pharmacy (B. Pharm) course regulations 2014]



9. Course of study

The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table – I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table – I to VIII.

Table-I: Course of study for semester I

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP101T	Human Anatomy and Physiology I– Theory	3	1	4
BP102T	Pharmaceutical Analysis I – Theory	3	1	4
BP103T	Pharmaceutics I – Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
BP105T	Communication skills – Theory *	2	-	2
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
BP107P	Human Anatomy and Physiology – Practical	4	-	2
BP108P	Pharmaceutical Analysis I – Practical	4	-	2
BP109P	Pharmaceutics I – Practical	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	-	2
BP111P	Communication skills – Practical*	2	-	1
BP112RBP	Remedial Biology – Practical*	2	-	1
	Total	**32/34[$]/36[#]**	**4**	**27/29[$]/30[#]**

[#]Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.
[$]Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.
* Non University Examination (NUE)

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Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process

Experiential Learning	**Mini Project**


Experiential Learning	**Lab Work**

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Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process

Experiential Learning	**Exhibition**

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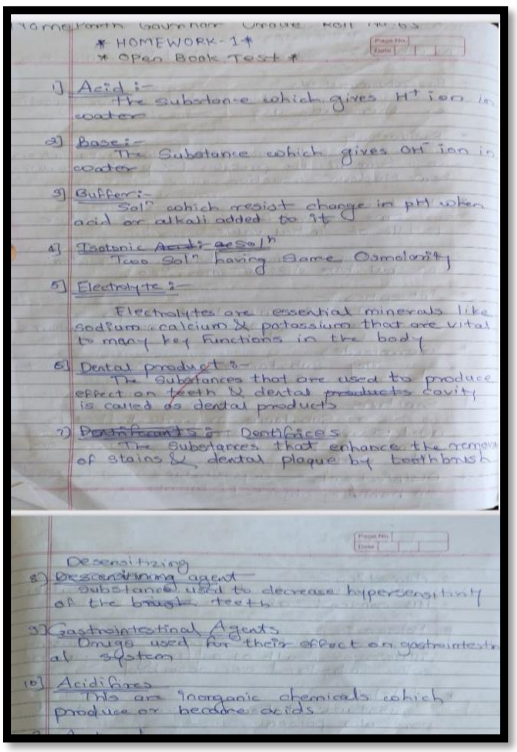
Problem solving methodology	**Open Book tests, Assignment and Reciprocal Questions**



* HOMEWORK-14
* Open Book Test *

1) Acid :-
The substance which gives H^+ ion in water

2) Base :-
The Substance which gives OH^- ion in water

3) Buffer :-
Sol" which resist change in pH when acid or alkali added to it "

4) Isotonic ~~Acid~~ Sol"
Two Sol" having same Osmolarity

5) Electrolyte :-
Electrolytes are essential minerals like sodium, calcium & potassium that are vital to many key functions in the body

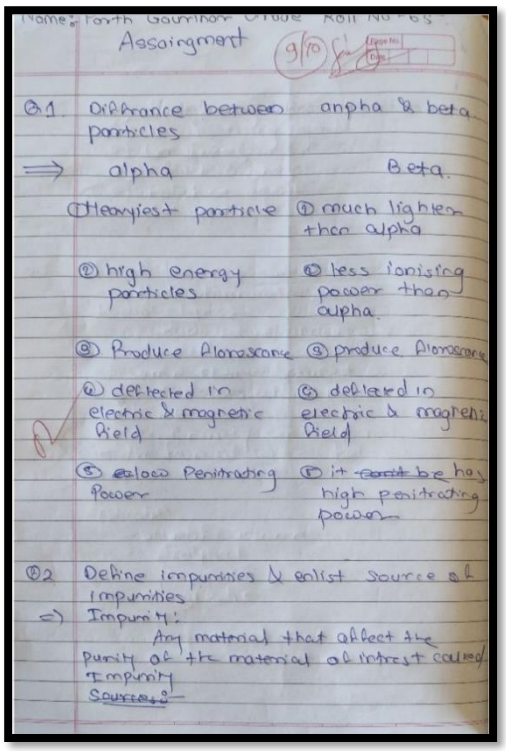
6) Dental products :-
The substances that are used to produce effect on teeth & dental products cavity is called as dental products

7) ~~Dentifrices~~ :- Dentifrices
The substances that enhance the remova of stains & dental plaque by toothbrush

8) Desensitizing agent
Substance used to decrease hypersensitivity of the teeth

9) Gastrointestinal Agents
Drugs used for their effect on gastrointestinal system

10) Acidifiers
They are inorganic chemicals which produce or become acids



Assaignment 9/10

Q1. Difference between anpha & beta particles

⇒ alpha | Beta

① Heavyiest particle | ① much lighter than alpha

② high energy particles | ② less ionising power than alpha

③ Produce Florescence | ③ produce florescence

④ deflected in electric & magnetic field | ④ deflected in electric & magnetic field

⑤ ~~e~~loss Penitrating Power | ⑤ it ~~can't~~ be has high penitrating power

Q2 Define impurities & enlist source of impurities

⇒ Impurity :
Any material that affect the purity of the material of intrest called Impurity

Sources :-

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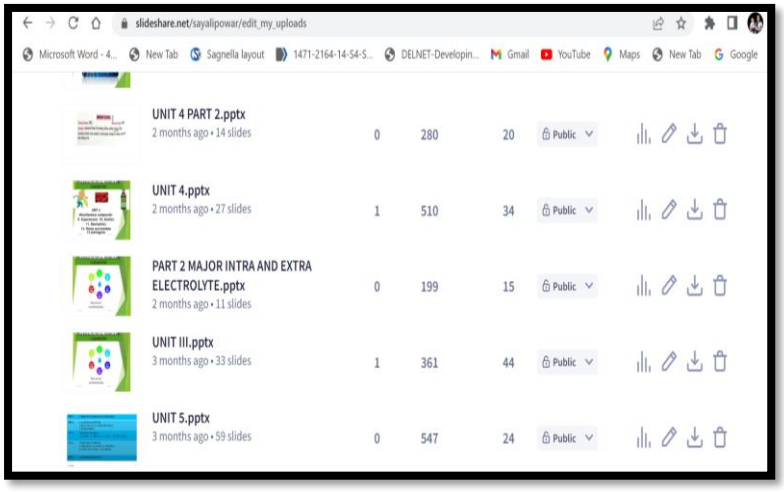
Co-operative Learning	**Describing & explaining**

ICT Enabled Teaching	**Lecture with Social Platform**



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CHALK & BOARD METHOD

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SMART BOARD/POWERPOINT METHOD

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THINK-PAIR SAHRE ACTIVITY

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QUESTION-ANSWER SESSION

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STUDENTS SEMINAR

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Experimental Learning

Visit to Anatomy lab of Tatyasaheb Kore Dental College and Research Centre, New Pargaon

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Problem Solving

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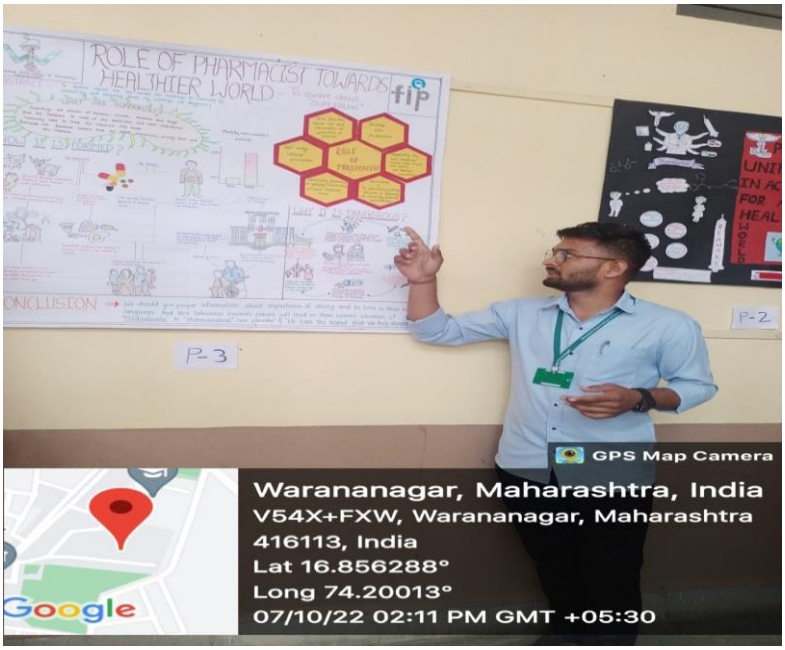
Participative learning



Visit to Bharati Vidyapeeth Hospital, Sangli

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Drill and Practice

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Lecturing

Lecturing with the ICT enabled facility

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Think Pair and Share

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Video Clips

Video Lecturing

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Training on Analytical Instruments

Arranging Guest Lecture

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Use of ICT Tool: Mentimeter

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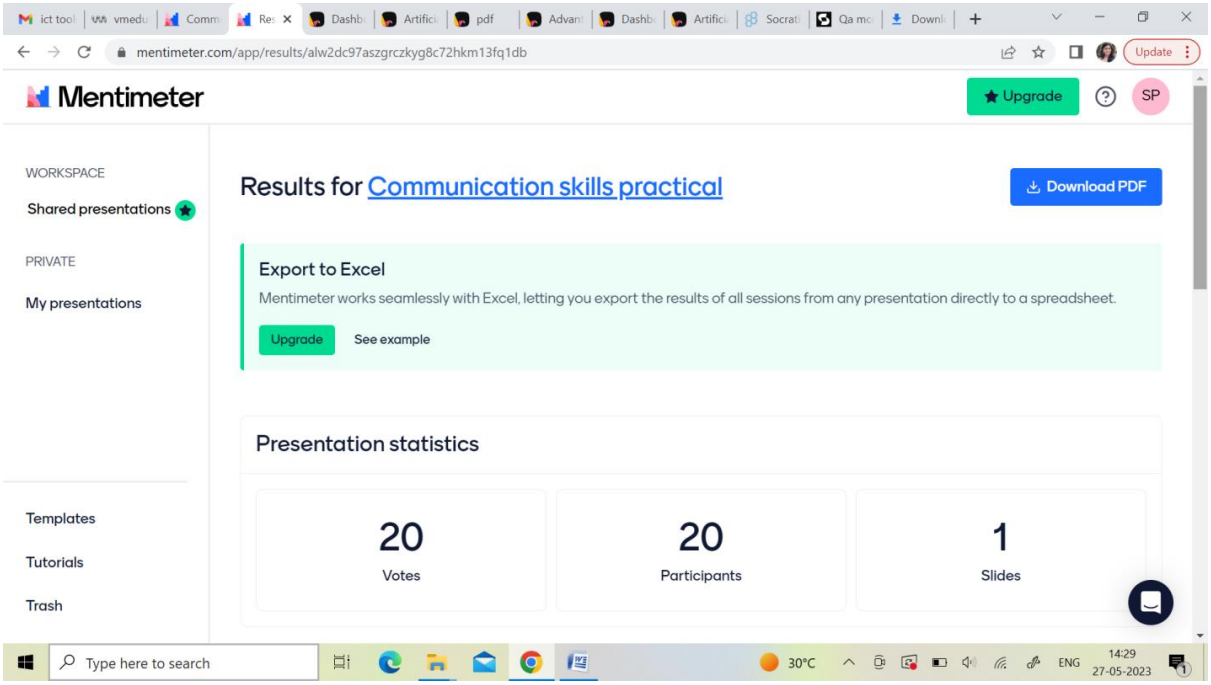
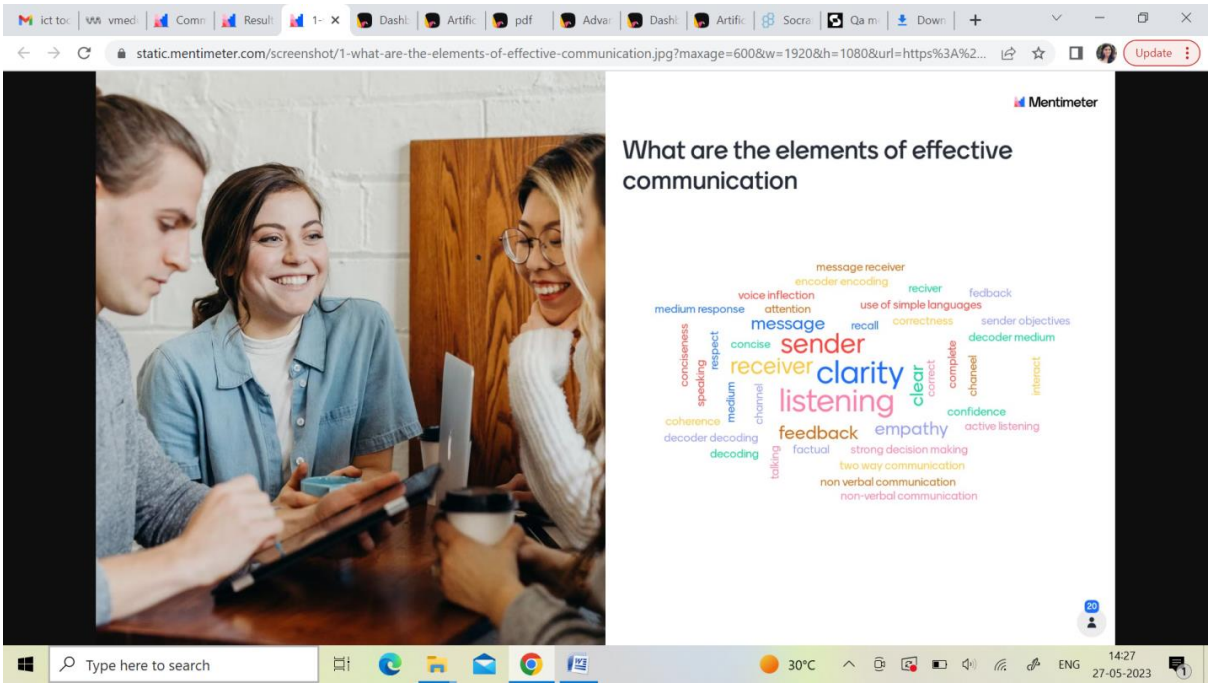
Key Indicator 2.3: Teaching- Learning Process





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Mentimeter

applications of 3D printing in pharma 10 Answers

Compared to traditional preparation technologies, 3D printing offers flexibility in the design of complex 3D structures within drugs, the adjustment of drug doses and combinations, and rapid mfg	Formulation of solid dosage forms	Utilising a layer-by-layer production process, 3D printing can produce printlets (3D printed tablets) that are individualised to a patient's therapeutic requirements (e.g. dosage, drug combination
Compared to tradtional preparation technologies, 3D printing offers flexibility in the design of complex 3D structures within drugs, the adjustment of drug doses and combinations, and rapid manufactur	3d printing used in ocular drug delevery system. Used in topical drug delivery system.Used in pill formation.Used in new drug development and tissue and engineering development.Used in NDDsystem.	1. Tissue and organ fabrication. 2. Creation of customized prosthetics. 3. Pharmaceutical research regarding drug dosage form, delivery and discovery. 4. Implants and anatomical model.
Fast creation- 3D printed parts have short lead times and can be made on short notice• No need for drawings- No need for drawings during prototyping or manufacturing process- Saves time for those	3D printing is an digital computer aided software which is used to design the formulation. Used in research, used in rapid manufacturing, also used in mass customization.	1.High production rates due to its fast opening systems.2.Customization: A major advantage in 3D printing. With just a raw material, a blue print & a 3D printer, one can print any design no matter.

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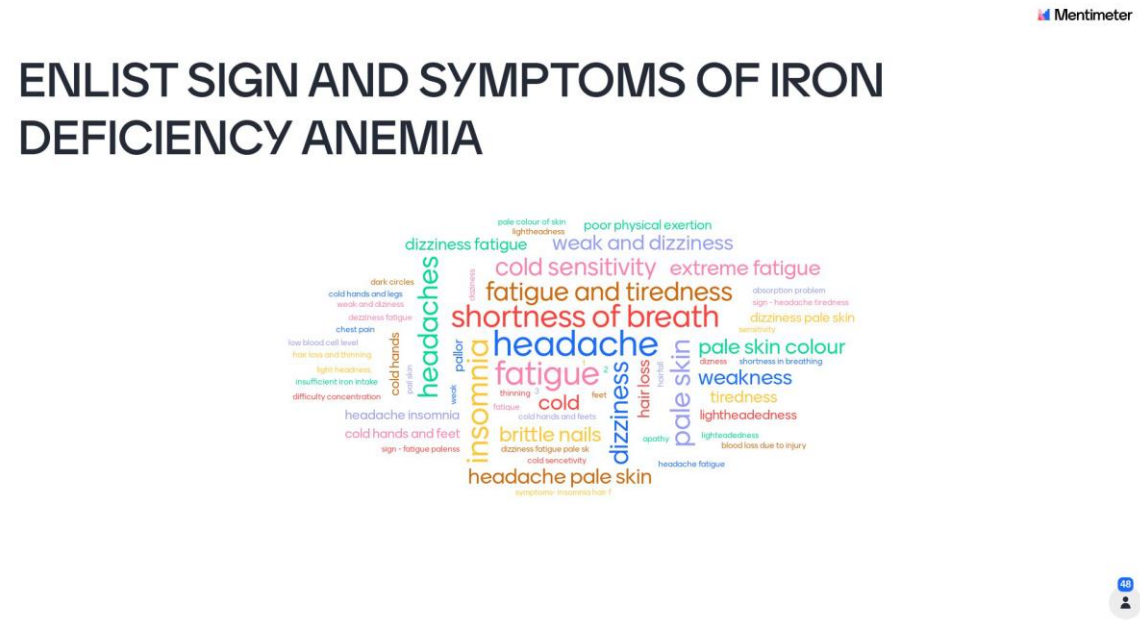

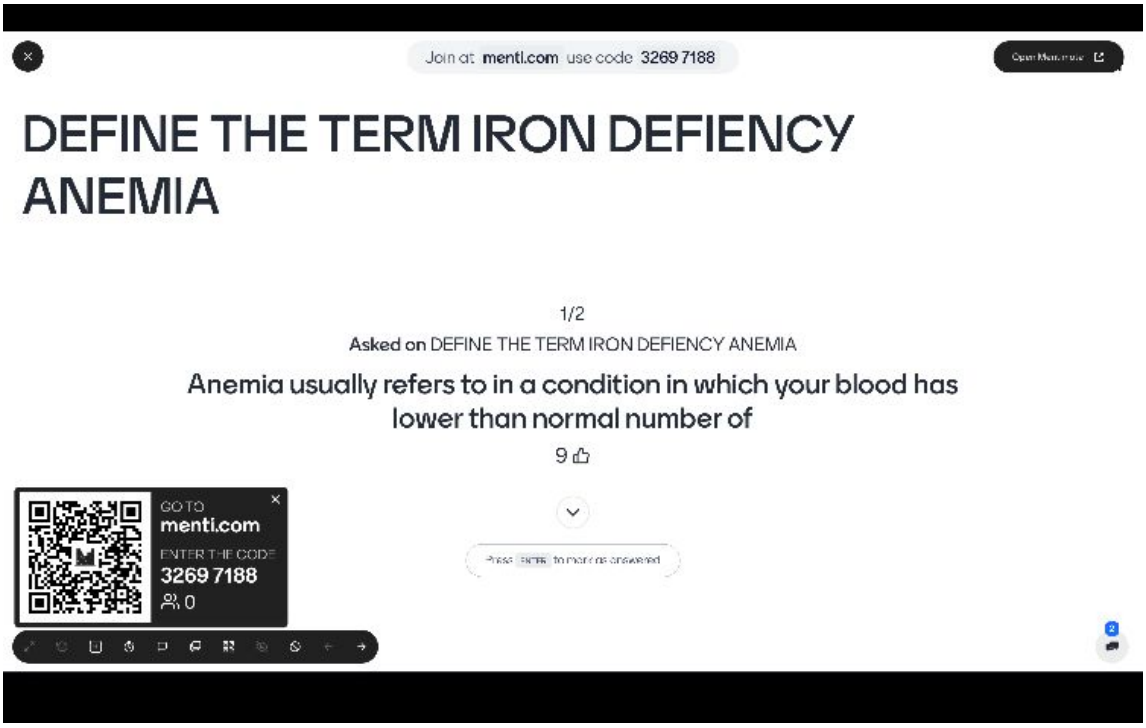

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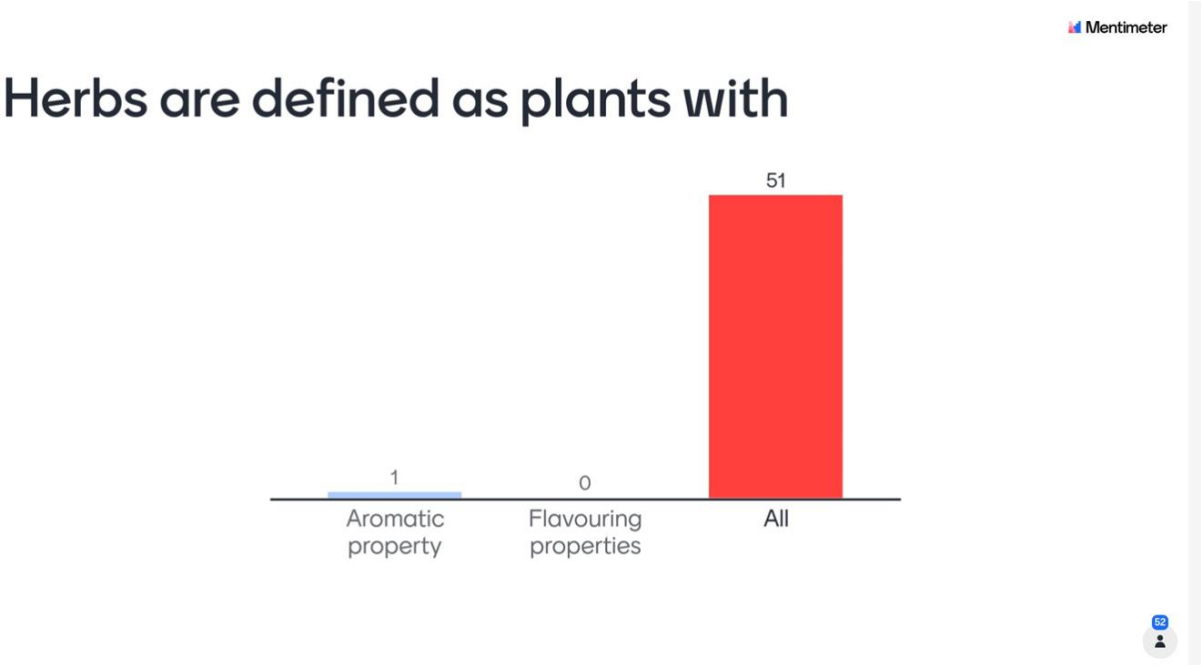

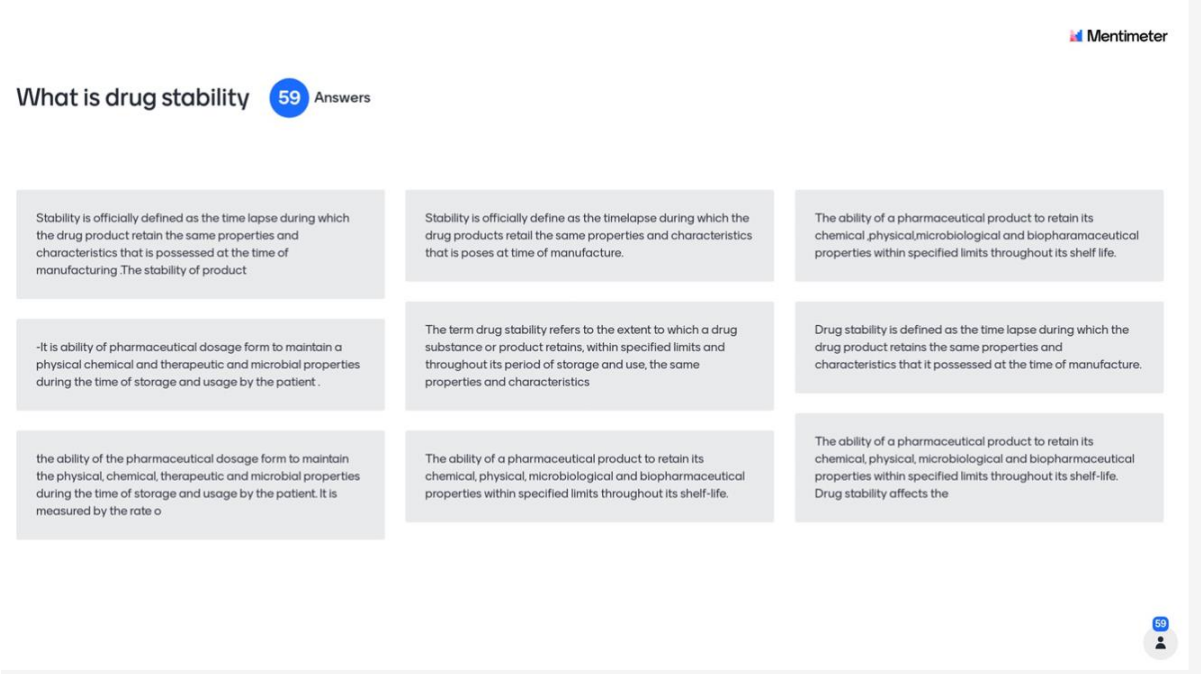

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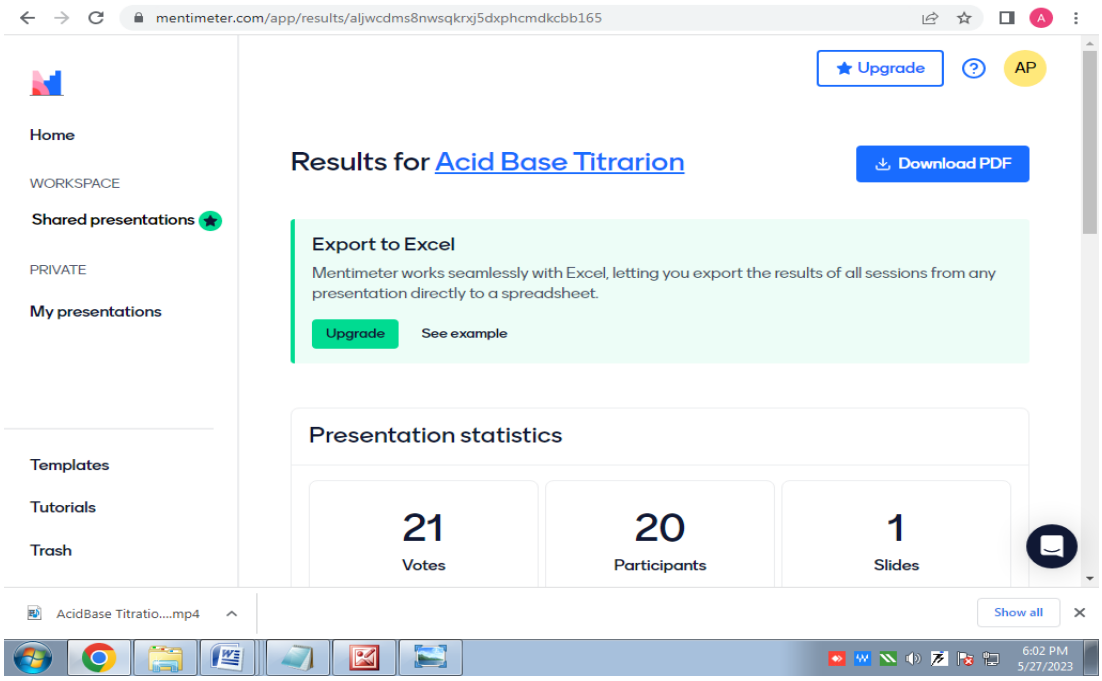

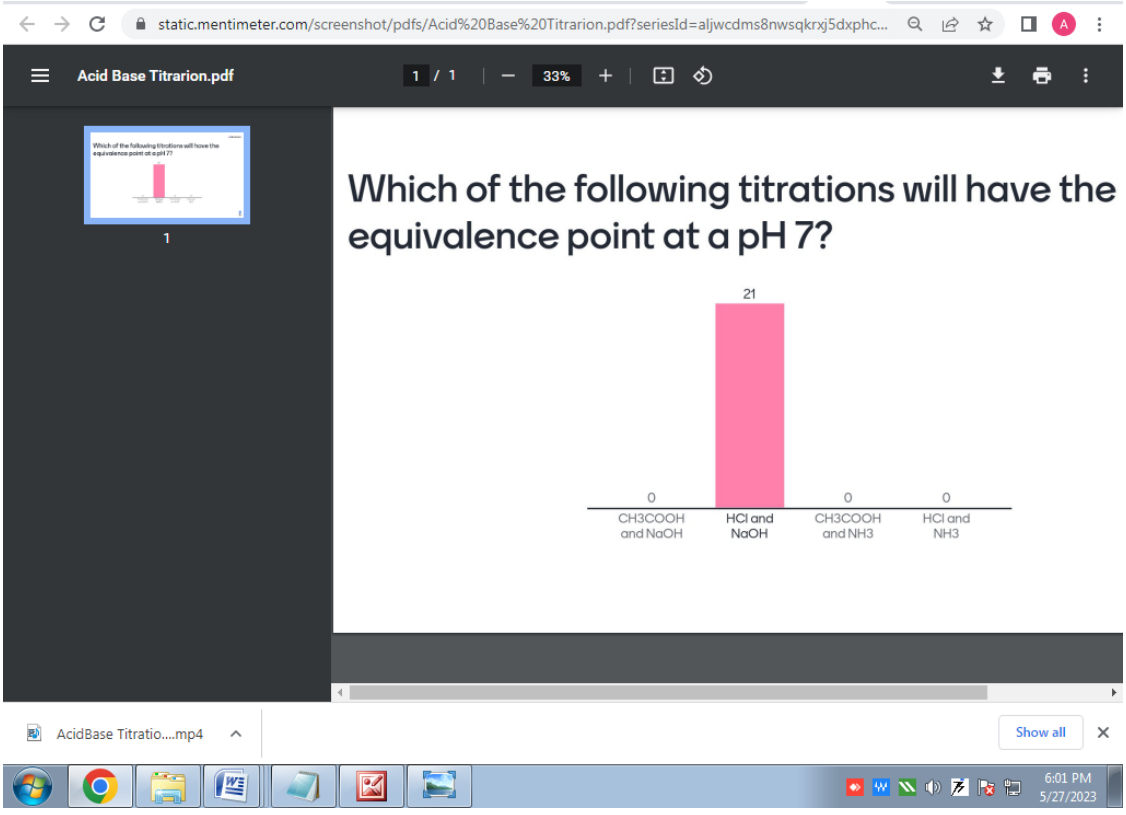

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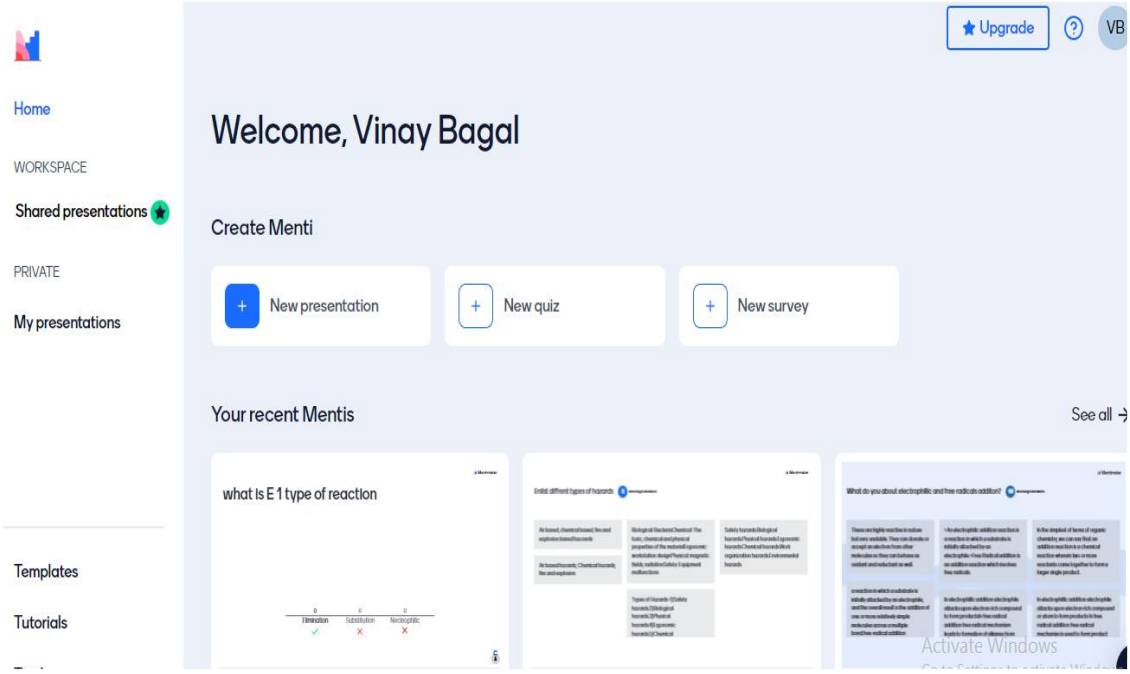

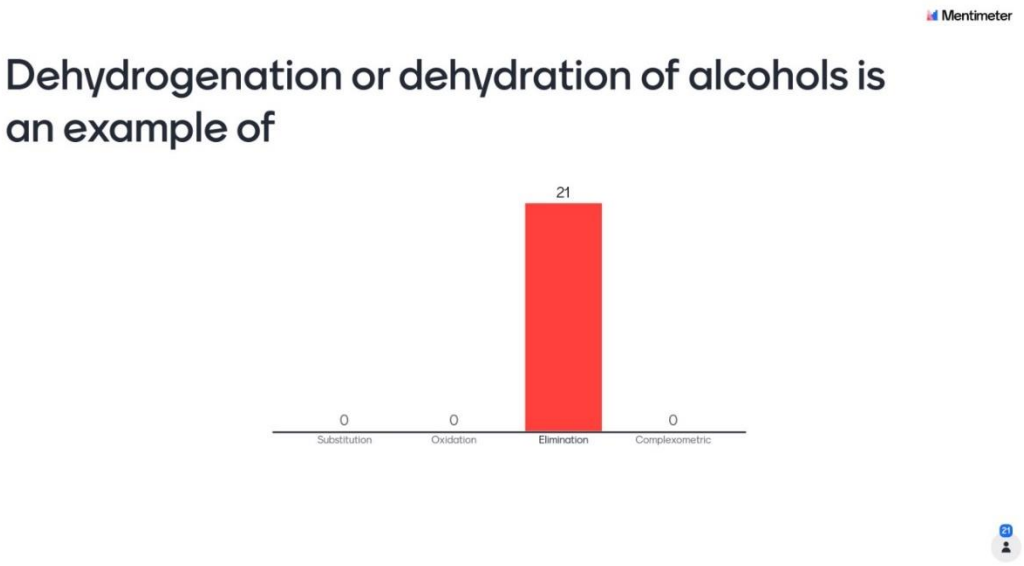

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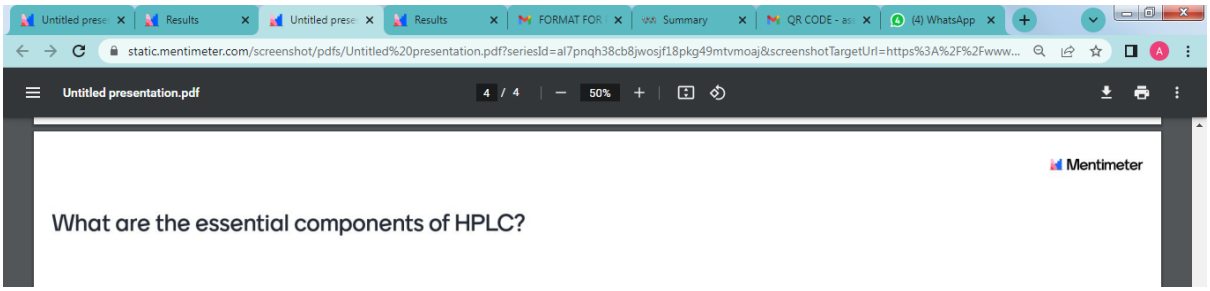

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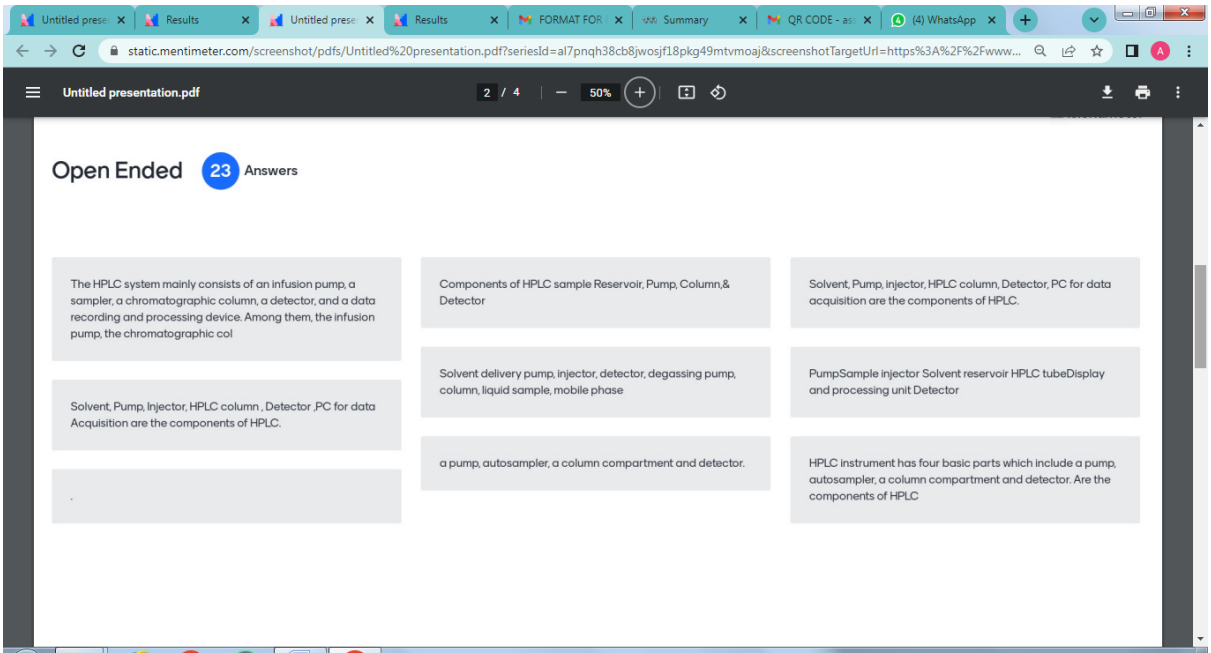

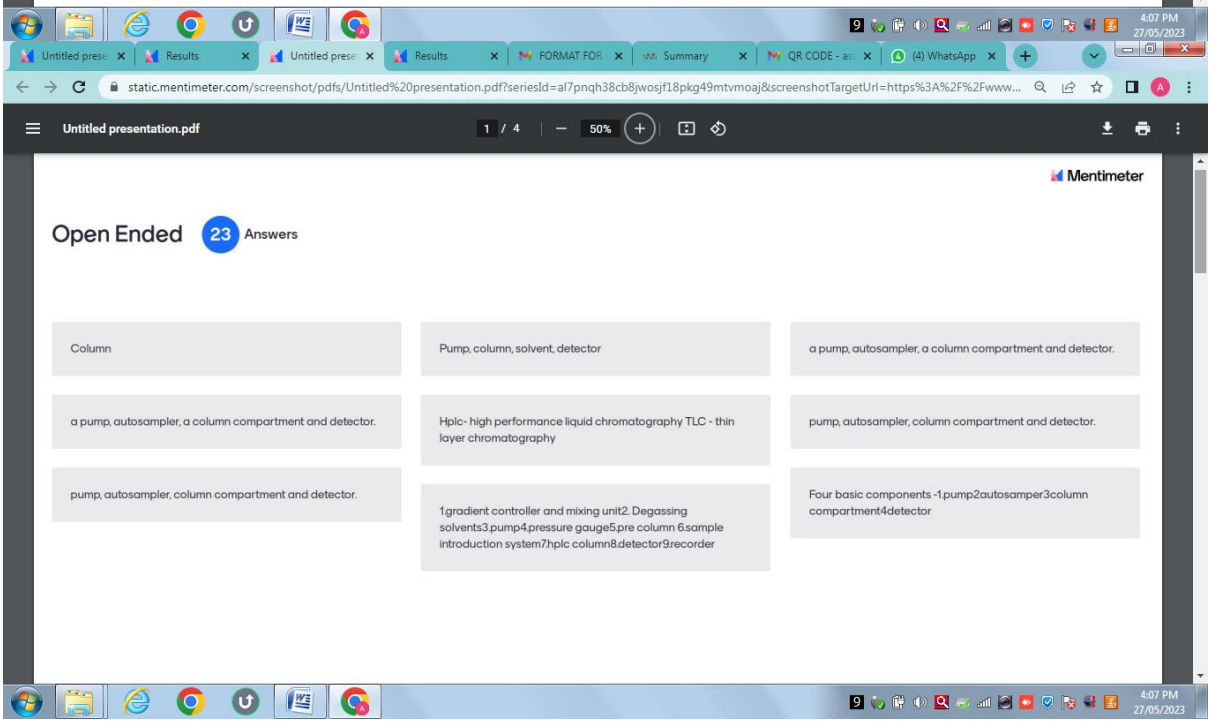

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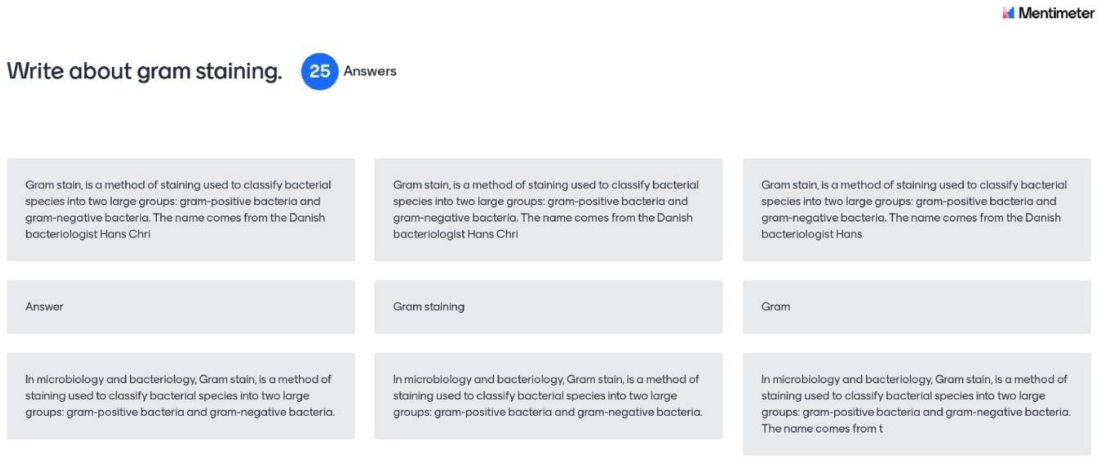

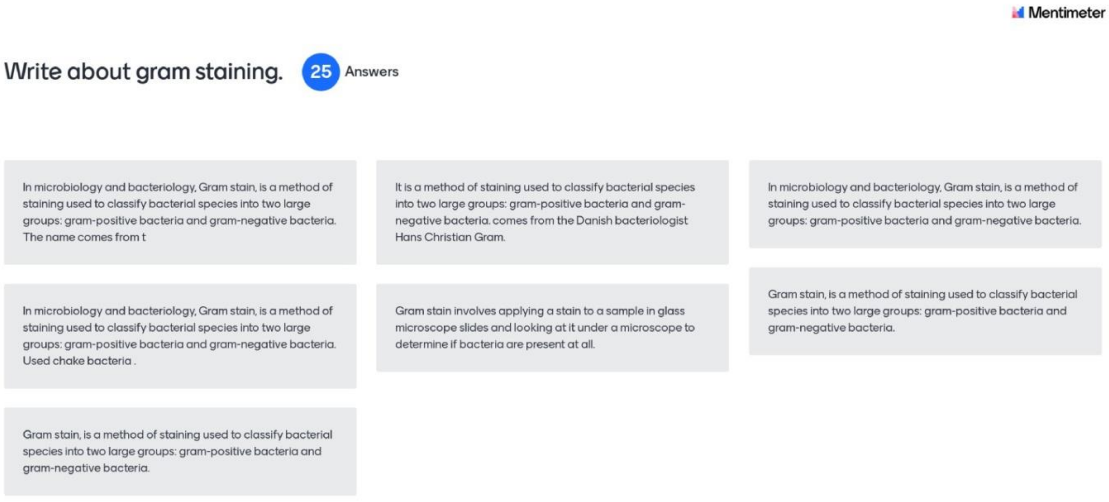

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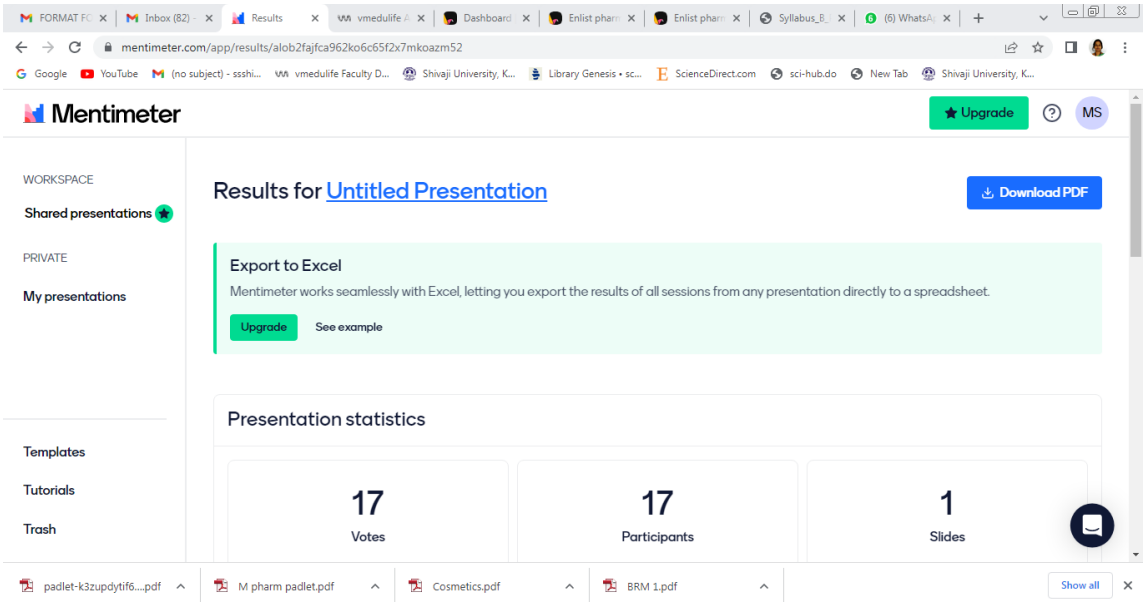

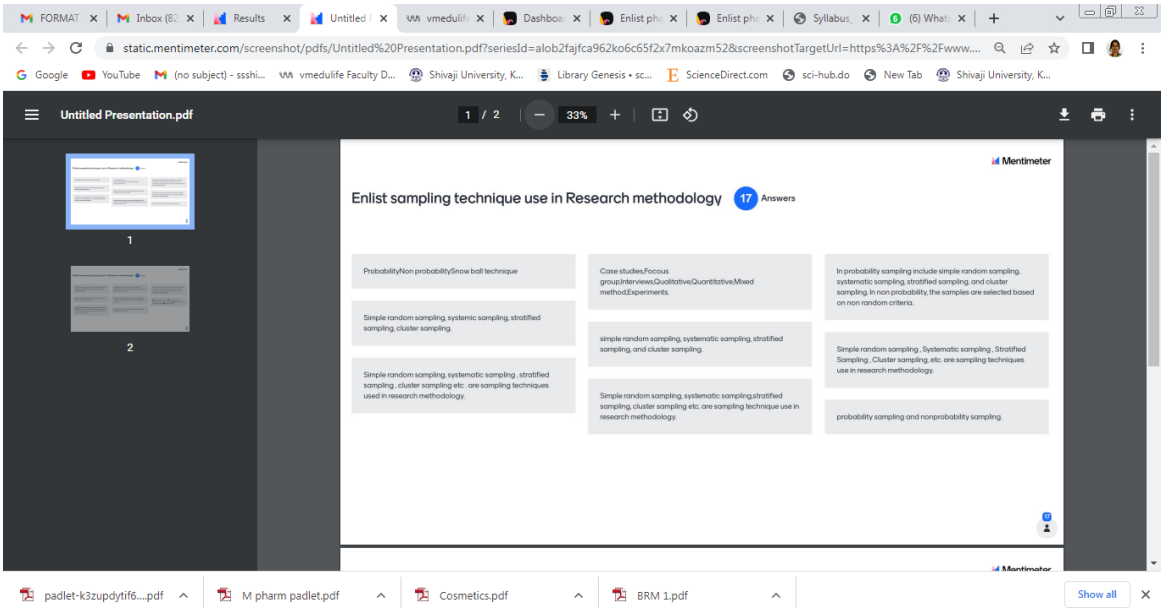

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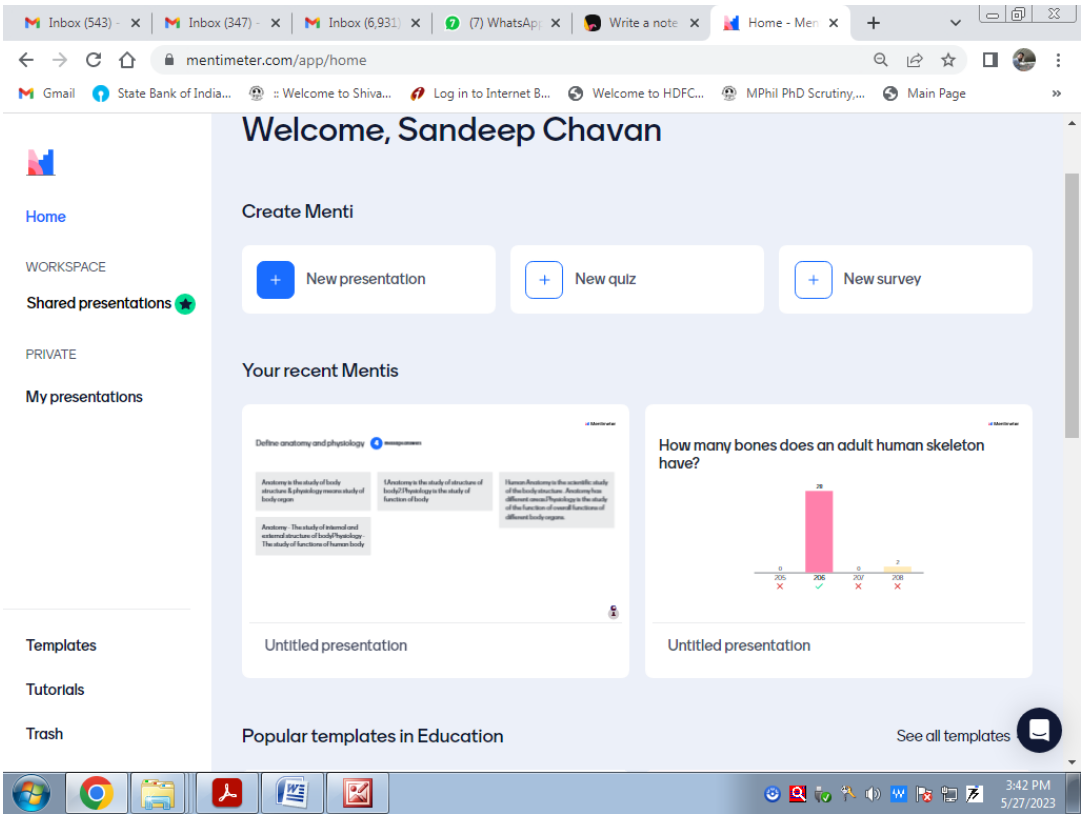

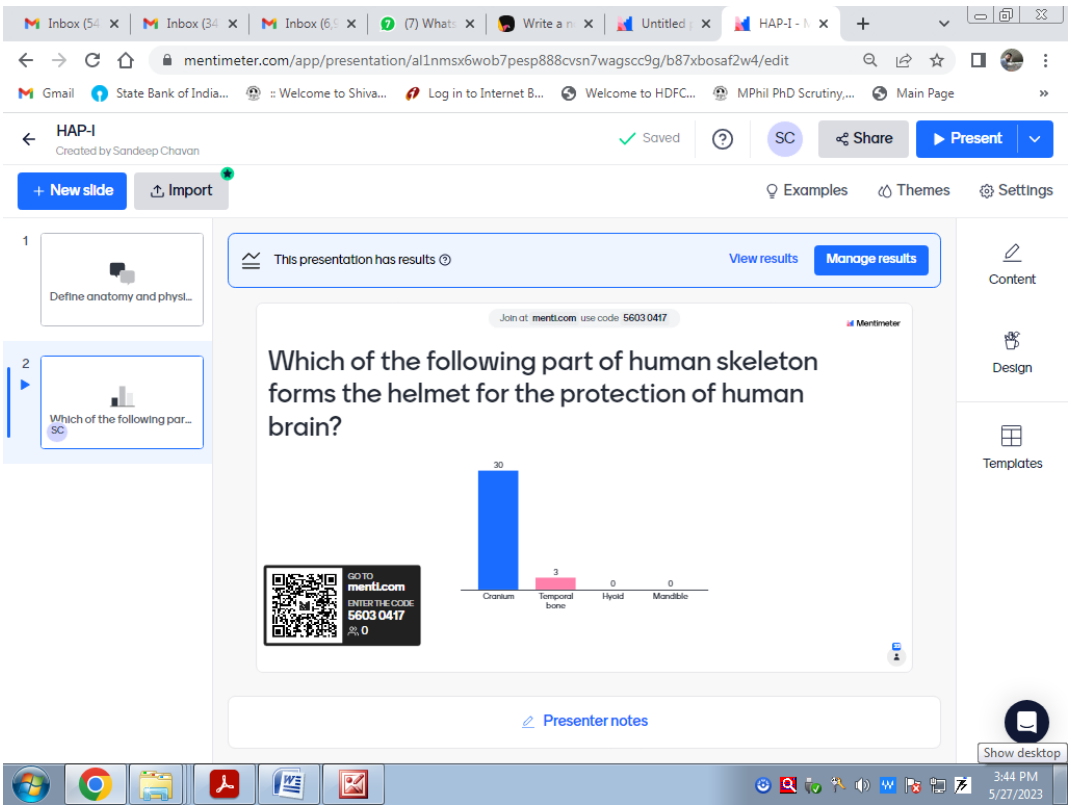

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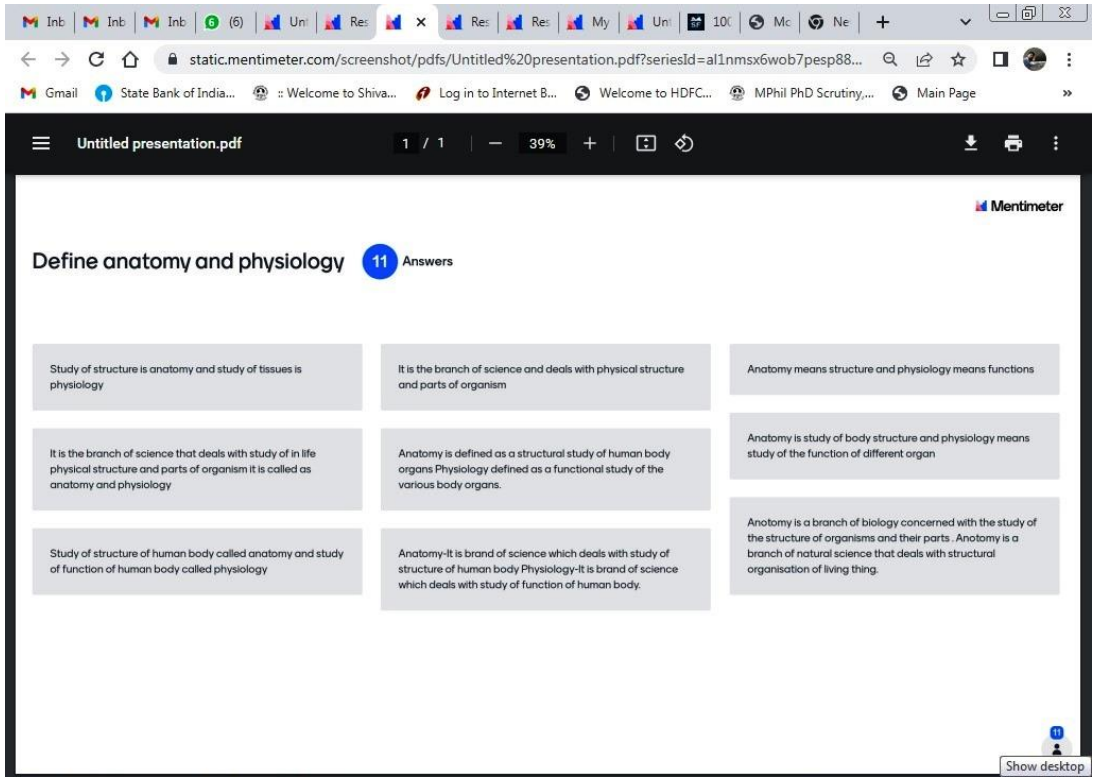

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Use of ICT Tool: Padlet

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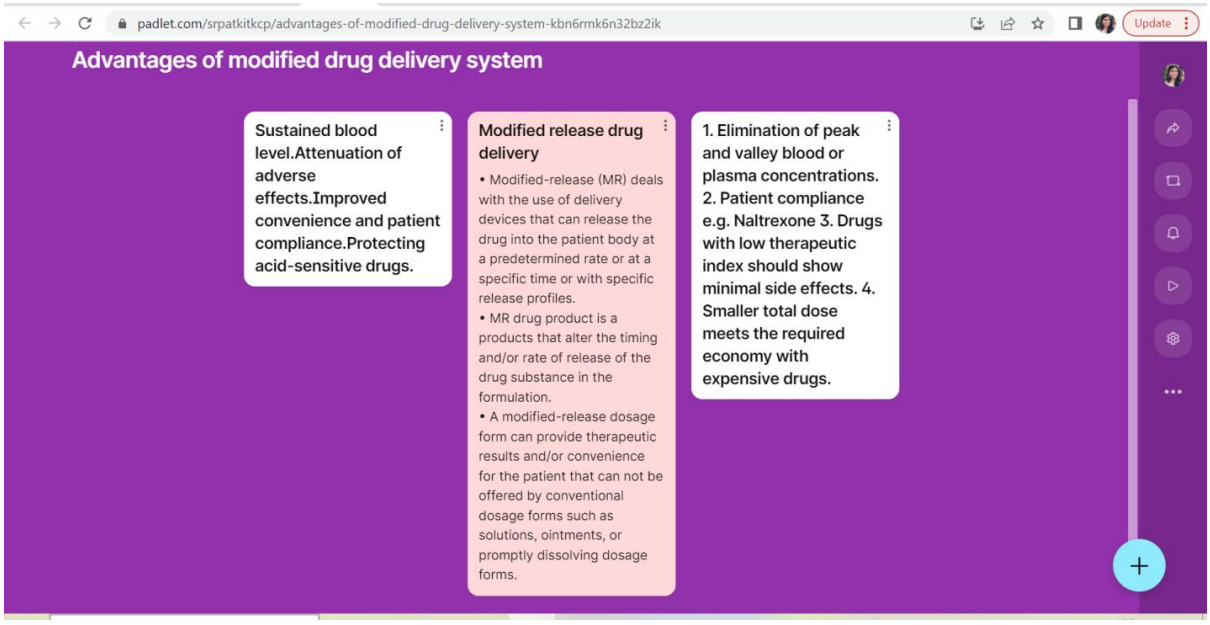

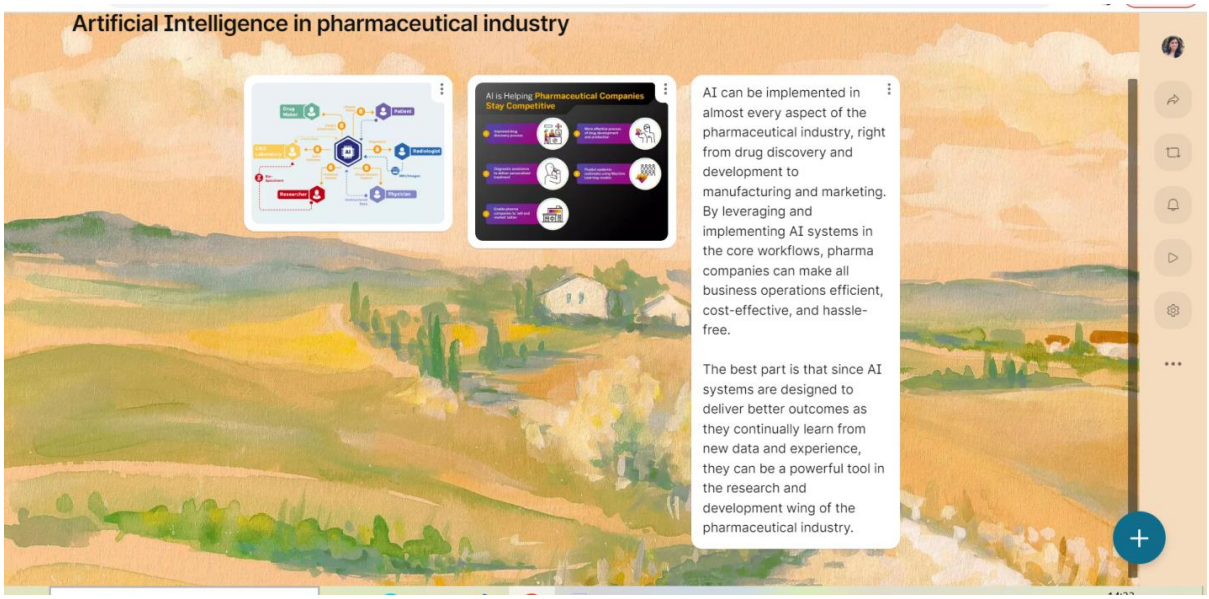

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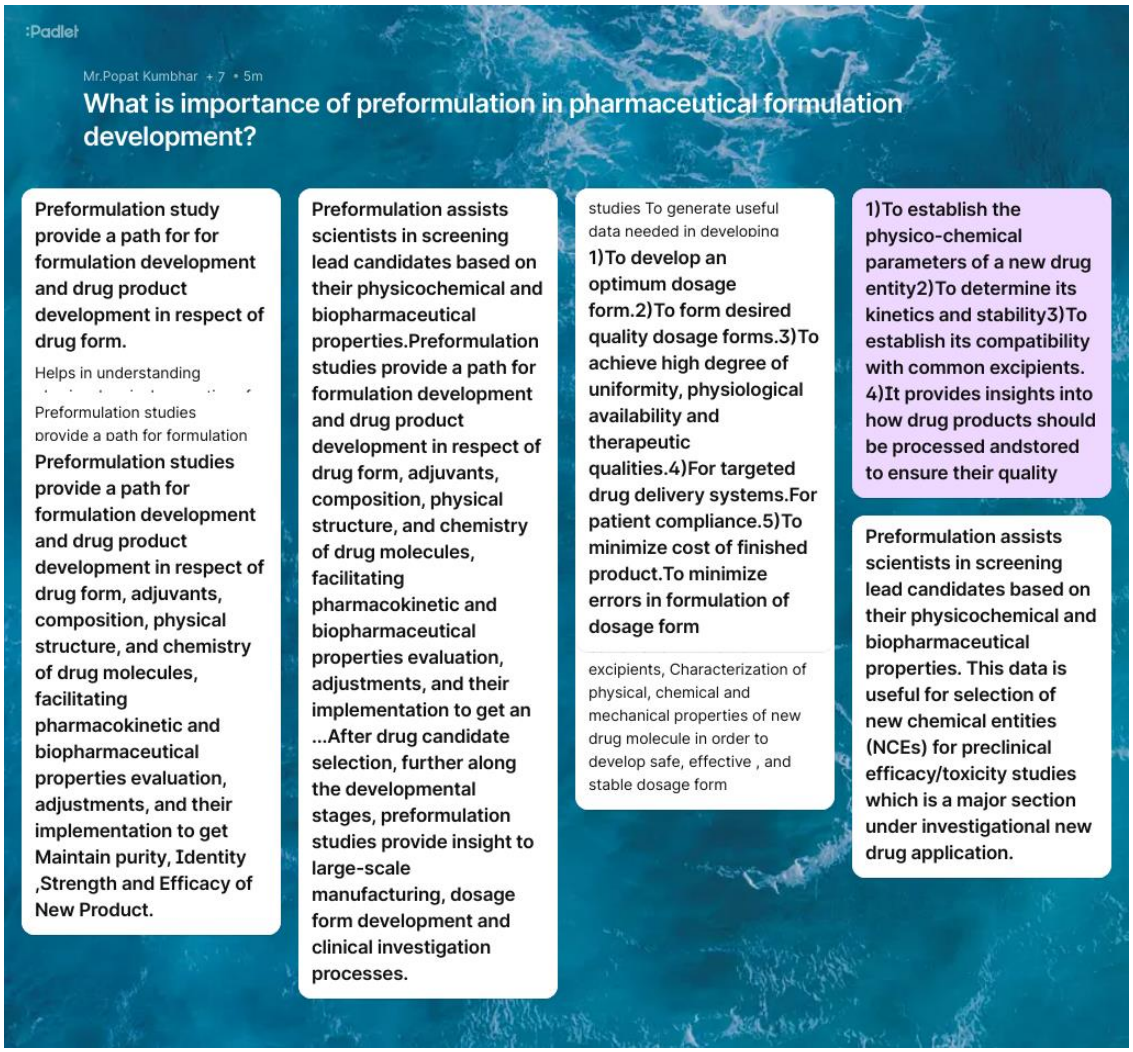

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padlet padlet.com/sdchavantkcp/write-a-note-on-mitochondria-nrjp70w9aczhyrgn

Write a note on mitochondria

SANDEEP CHAVAN MAY 27, 2023 06:50AM UTC

Mitochondria

Mitochondria are organelles found in the cytoplasm of most cells. They are essential to healthy living as they play an important role in the way cells function in the body. Mitochondria generates energy for cells to carry out activities. This energy is in the form of adenosine triphosphate

Mitochondria

Mitochondria is also known as power house of cell.
Because it generate ATP
It consist of two lipoprotein membrane i.e outer and inner membrane.
Inner membrane is folded to form a cristae
Inner membrane also refered matrix

Small structures in a cell that are found in the cytoplasm (fluid that surrounds the cell nucleus

Mitochondria is known as powerhouse of cell . it provides energy necessary for the cell's survival and functioning

Mitochondria are membrane-bound cell organelles (mitochondrion, singular) that generate most of the chemical energy needed to power the cell's biochemical reactions. Chemical energy produced by the mitochondria is stored in a small molecule called adenosine triphosphate (ATP).

A mitochondrion is an organelle found in the cells of the most eukaryotes such as animals, plants and fungi.mitochondria have a double membrane structure and use aerobic respiration to generate adenosine triphosphate which is used throughout cell as a source of chemical energy.

Mitochondria are membrane-bound cell organelles (mitochondrion, singular) that generate most of the chemical energy needed to power the cell's biochemical reactions. Chemical energy produced by the mitochondria is stored in a small molecule called adenosine triphosphate (ATP).

Mitochondria

Mitochondria are tiny structures inside cells that produce energy for the cell to use.

Mitochondria are essential components of nearly all cells in the body. These organelles are the powerhouses for cells, providing energy to carry out biochemical reactions and other cellular processes. Mitochondria make energy for cells from the chemical energy stored in the food we eat.Mitochondria are found in all body cells, with the exception of a few. There are usually multiple mitochondria found in one cell, depending upon the function of that type of cell. Mitochondria are located in the cytoplasm of cells along with other organelles of the cell.

Mitochondria are membrane-bound cell organelles (mitochondrion, singular) that generate most of the chemical energy needed to power the cell's biochemical reactions. Chemical energy produced by the mitochondria is stored in a small molecule called adenosine triphosphate (ATP).

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Criteria 2: Teaching-learning and Evaluation
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Mitochondria is power house of cell.It is membrane bound cell organell.It produces ATP which is require for the function of cell.There are about 2500 mitochondria present in each cell.

Mitochondria

Mitochondria are double membrane-bound organelles in the cytoplasm of all eukaryotic cells, that produce ATP, the main energy molecule used by the cell.
They are the powerhouse of cells.
Their purpose is to break down ATP (cell food) into energy to be used by cells.

Mitochondria:

Mitochondria are membrane bound organelles present in the cytoplasm of all eukaryotic cells, that produce ATP(Adenosine triphosphate) the main energy molecule used by cell.

Mitochondria are membrane-bound cell organelles (mitochondrion, singular) that generate most of the chemical energy needed to power the cell's biochemical reactions. Chemical energy produced by the mitochondria is stored in a small molecule called adenosine triphosphate (ATP).
Mitochondria contain their own small chromosomes. Generally, mitochondria, and therefore mitochondrial DNA, are inherited only from the mother.

Mitochondria -

Mitochondria are membrane-bound cell organelles (mitochondrion, singular)that generate most f the. Chemical energy needed to power the cell's biochemical reactions. Chemical energy produced by the mitochondria is stored in a small molecule called ATP.
- Mitochondria contain their own small chromosomes.
- Mitochondrial DNA are inherited only from the mother.
- The muscle has a lot of mitochondria the liver does too.
- The kidney as well and to certain extent the brain which lives off of the energy those mitochondria produce.
- Some different cells have different amounts of mitochondria because they need more energy.

Mitochondria

Mitichondria is important cell organelle. It is also known as power house of the cell. ATP production required for the body is produced here. The most important cycle ETC is completed here. It is double membranous structures with inner membrane having fold they are called cisterns.
Mitochondria helps in new cell growth.

Mitochondria:-

Mitochondria is also known as Power House of cell. The mitochondria are composed of a double membrane system. The inner mitochondria is known as Matrix.The matrix contains several enzymes concerned with the energy metabolism of carbohydrates, lipids and amino acids (e.g., citric acid cycle, -oxidation). Mitochondria are the principal producers of ATP in the aerobic cells.

Mithochondria

Mithochondria is an important cell organelle. It is known as power house of cell. All important biochemical process is production of ATP takes place here in mithochondria. It is double membranous structure. The inner membrane is folded and the folds are called cisterna.
Any problem with this organelle may lead to disorders where ATP production is reduced.

Mitochondria are membrane-bound cell organelles (mitochondrion, singular) that generate most of the chemical energy needed to power the cell's biochemical reactions. Chemical energy produced by the mitochondria is stored in a small molecule called adenosine triphosphate (ATP).

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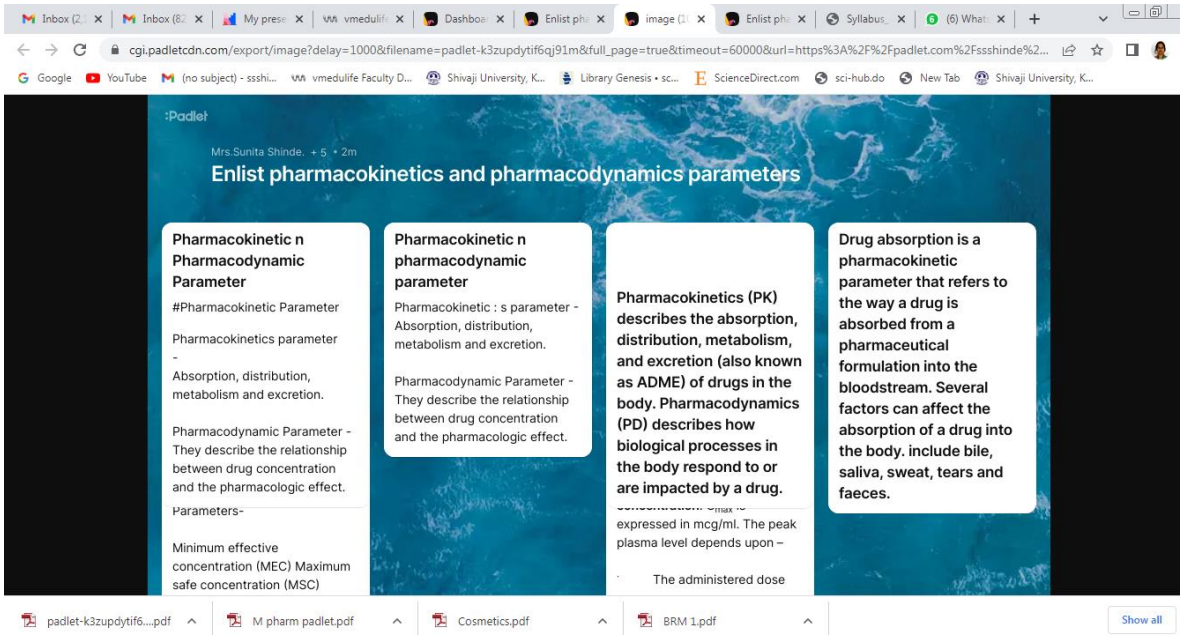
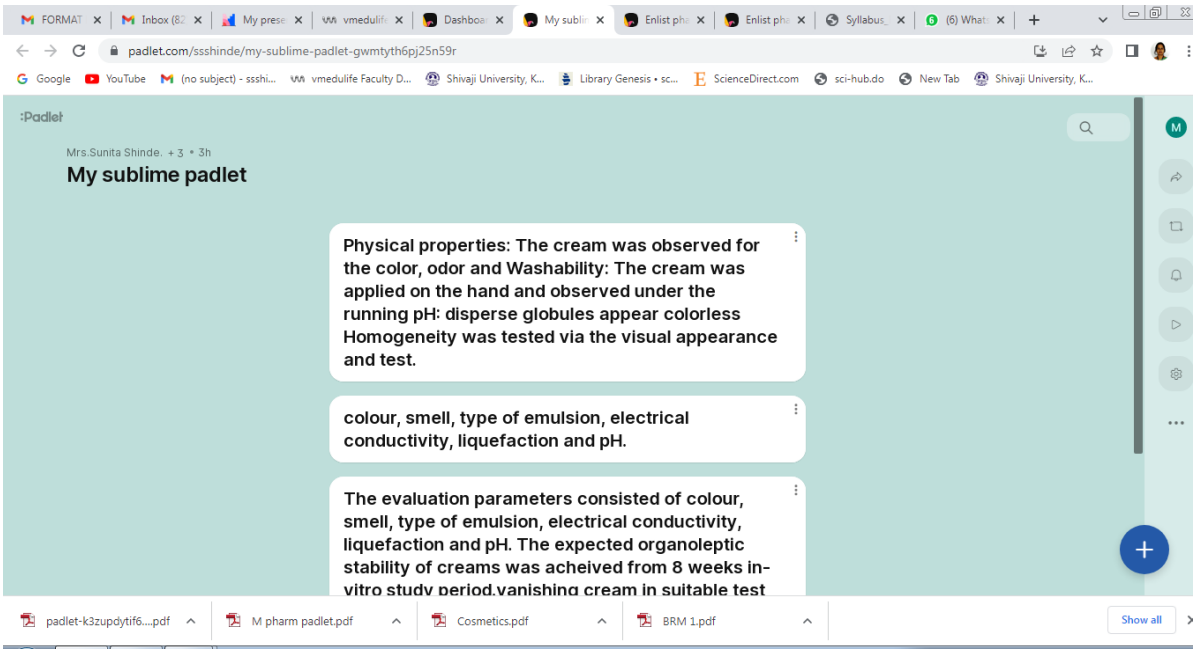
Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process





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Criteria 2: Teaching-learning and Evaluation
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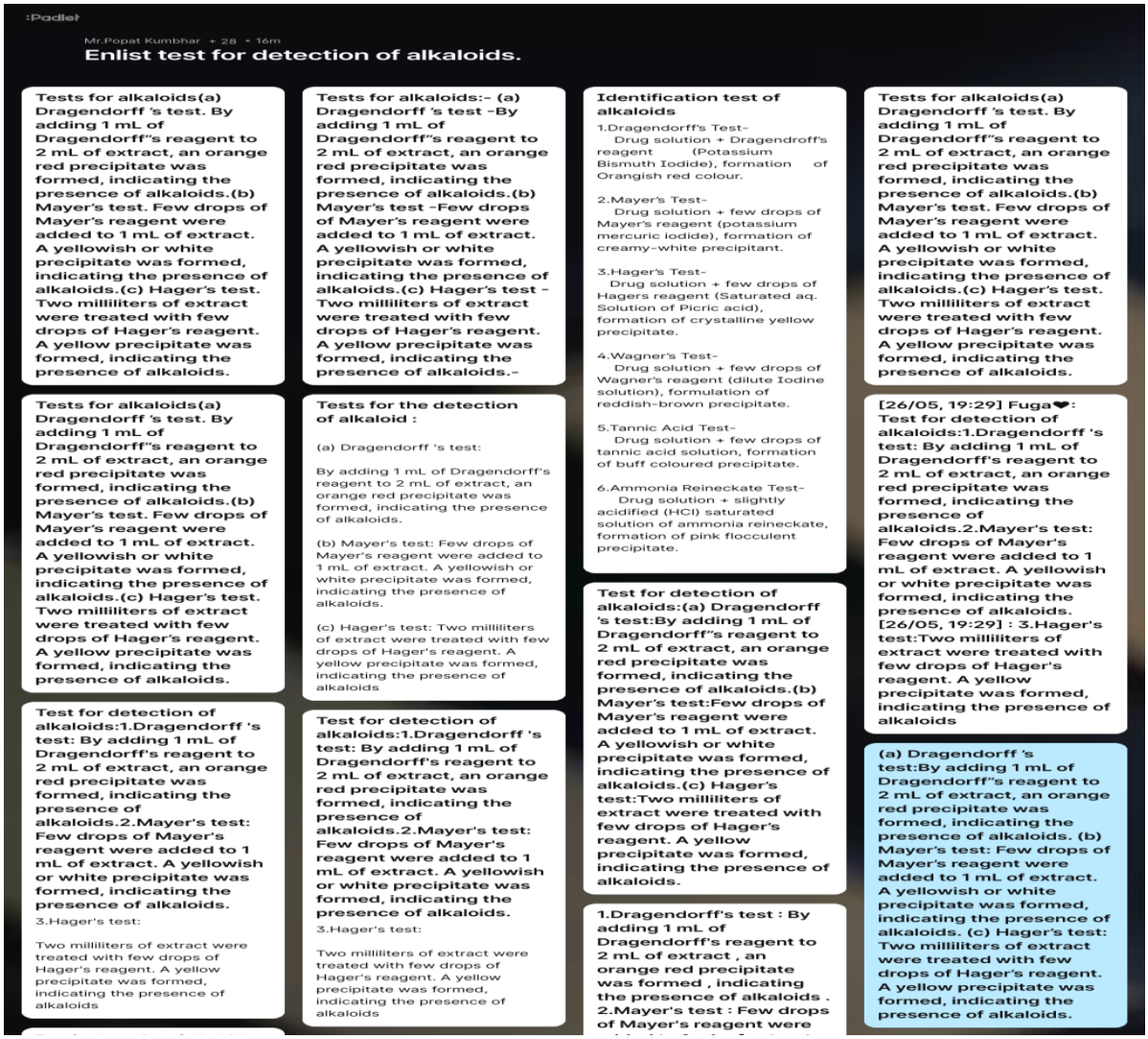

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Criteria 2: Teaching-learning and Evaluation
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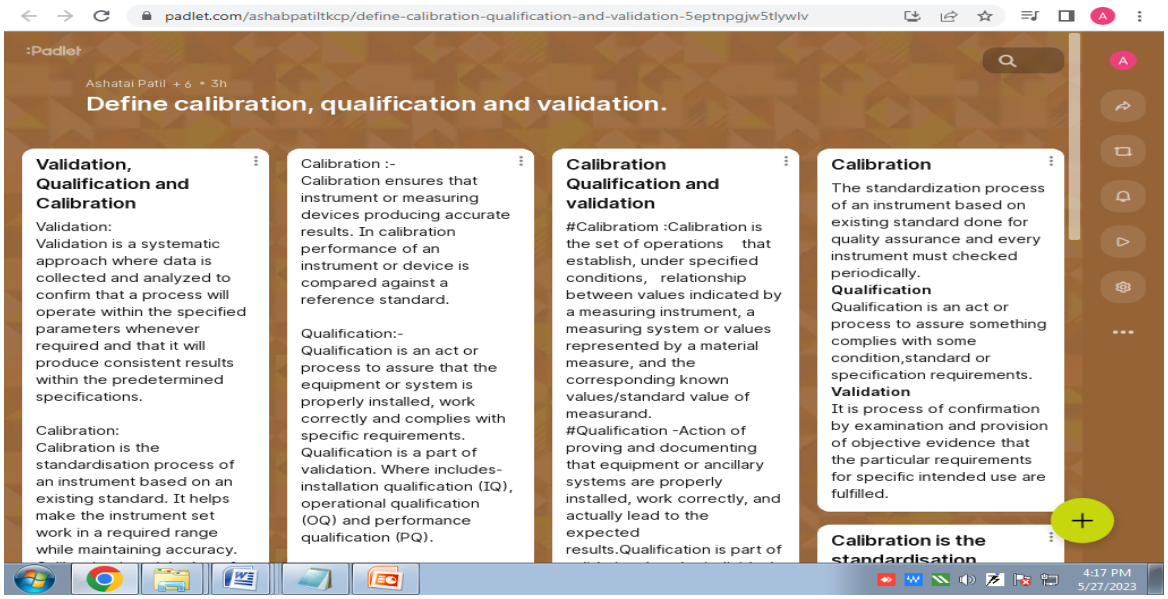

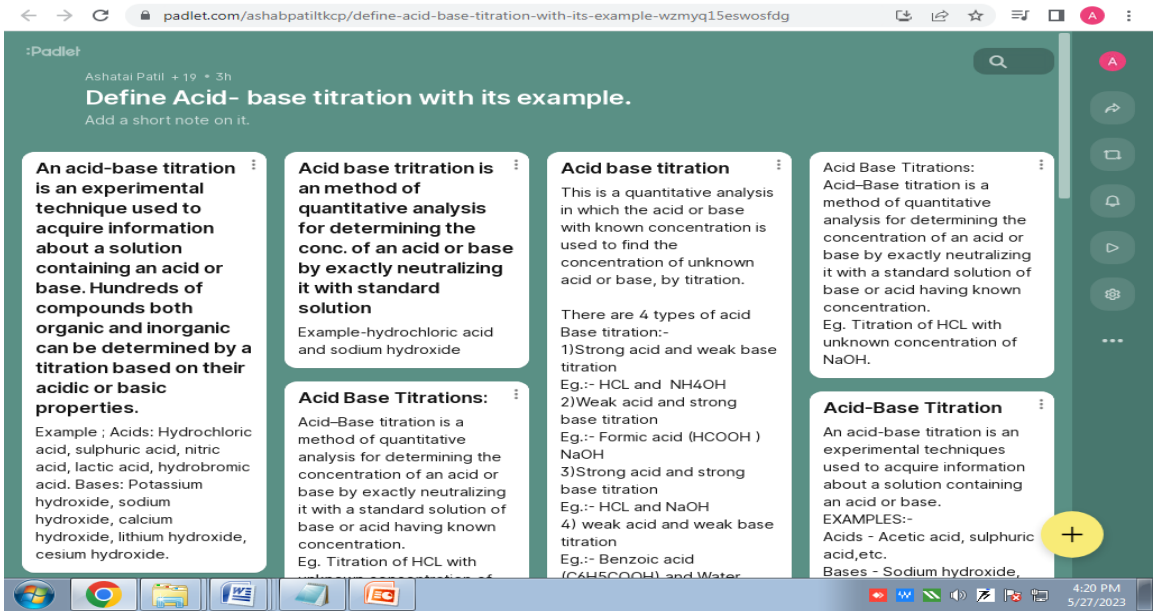

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CONTENT DEVELOPMENT DATABASE

Name of the faculty	Channel name
Mr. Kiran Patil	Pharma Digest

SEMESTER I (HUMAN ANATOMY AND PHYSIOLOGY-I)		
Topics	**Sub-topics**	**Video content link**
Body fluids and blood	blood	https://youtu.be/8F7VaLC0yyw
Body fluids and blood	Why HbA1c level is important?	https://youtu.be/-7XJxhrt-Y4
Body fluids and blood	High White Blood Cell Count?? Possible Causes	https://youtu.be/RQA_o4d2Cck
SEMESTER I (PHARMACEUTICS- I)		
Prescription	Prescription Abbreviation	https://youtu.be/JcCZmR4L5Sk
SEMESTER I (PHARMACEUTICAL ANALYSIS I)		
Introduction	Indian Pharmacopoeia	https://youtu.be/osfJlinoAuU
Acid-base titration	Acid base theories	https://youtu.be/1NjTwvC9kCo
Non-aqueous titration	Non-aqueous titration	https://youtu.be/x8M3Ts4100c https://youtu.be/KvqZSFq9Bz0
SEMESTER I (PHARMACEUTICAL INORGANIC CHEMISTRY)		
Dental agent	Causes of sensitive Teeth	https://youtu.be/yerhzqxWmcw
Poison and Antidote	Poison and Antidote	https://youtu.be/M9aPIJbqWdM
Practicals	Arsenic	https://youtu.be/BrPDrbAc6D0
Practicals	Arsenic apparatus	https://youtu.be/iUbR4-Fs4Yw
Practicals	Iron	https://youtu.be/s2EA6C0ZqE0

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Practicals	Sulphates	https://youtu.be/3hsF9Taod9U
Practicals	Chlorides	https://youtu.be/dHhfs4gCjEI
Practicals	Synthesis of Boric Acid	https://youtu.be/ZNvg4n2nuhA
Practicals	Swelling power of Bentonite	https://youtu.be/sNXuRCd1KRw
SEMESTER II (PHARMACEUTICAL ORGANIC CHEMISTRY –I)		
Topics	**Sub-topics**	**Video content link**
Classification, nomenclature	Easy IUPAC Naming	https://youtu.be/1NjTwvC9kCo
SEMESTER II (BIOCHEMISTRY)		
Topics	**Sub-topics**	**Video content link**
Practical	Determination of blood creatinine Serum Creatinine Test	https://youtu.be/ViTIYBprAg4
Practical	Identification tests for Proteins (Millon's Test)	https://youtu.be/WaSCcl7SdaM
Practical	Identification tests for amino acid (Xanthoproteic Test)	https://youtu.be/s2Qq2F54wr4
Practical	Identification tests for amino acid (Ninhydrin Test)	https://youtu.be/b8dHXanlzX0
Practical	Quantitative analysis of reducing sugars and Proteins (Biuret method)	https://youtu.be/tmTqxLLhnWM
SEMESTER II (PHARMACEUTICAL MICROBILOGY)		
Topics	**Sub-topics**	**Video content link**
history of microbiology	Robert Koch Founder of Modern Bacteriology	https://youtu.be/bXLl4GamkhQ
General knowledge	Nipah Virus Facts & Care	https://youtu.be/D6JNJW87lU8
SEMESTER IV (PHARMACOLOGY I)		
Topics	**Sub-topics**	**Video content link**
Pharmacology of drugs acting on central nervous system	Diseases Associated with Neurotransmitters levels in Brain	https://youtu.be/uLkRbuyDAlk
SEMESTER IV (Industrial Pharmacy I)		
Topics	**Sub-topics**	**Video content link**

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Drugs and Cosmetics Act	Schedules of Drugs and Cosmetics Act	https://youtu.be/8huz_0Uwvi8
SEMESTER V (PHARMACEUTICAL JURISPRUDENCE)		
Topics	**Sub-topics**	**Video content link**
Tablets	Problems and Remedies for Tablet Coating in Just 5 Minutes	https://youtu.be/DnRPMsw0ncA

SEMESTER VIII (INDUSTRIAL PHARMACY II)		
Topics	**Sub-topics**	**Video content link**
Pilot plant scale-up techniques	**Recent Dry Granulation Technology**	https://youtu.be/622Ik1S3_9g
Regulatory affairs	Pharmaceutical Regulatory Agencies around the World	https://youtu.be/86bgg2aN_KQ
SEMESTER VIII (INSTRUMENTAL METHODS OF ANALYSIS)		
Topics	**Sub-topics**	**Video content link**
UV Visible spectroscopy	Woodward fisher rule in just five minutes: Part I	https://youtu.be/fG52AWoRMg8
UV Visible spectroscopy	Woodward fisher rule for carbonyl compounds	https://youtu.be/ZL6IXRRM4N4
UV Visible spectroscopy	Fisher Kuhn Rule	https://youtu.be/HX0_aG4AGYg
IR spectroscopy	Basic theory	https://youtu.be/tZMuLEzQM6s
IR spectroscopy	Modes of vibration	https://youtu.be/0liFNXs03mY
Nephelometry and Turbidimetry	Principle	https://youtu.be/Y2PBe_va7I4
Nephelometry and Turbidimetry	Instrumentation	https://youtu.be/6XoaGLcjz4E
SEMESTER VIII (SOCIAL AND PREVENTIVE PHARMACY)		
Topics	**Sub-topics**	**Video content link**
Social and health education	Foods for VITAMIN B12 Deficiency	https://youtu.be/7jqle8VJzg4

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Hygiene and health	Hazardous Chemicals in Cigarettes	https://youtu.be/Cs0bfAQMxc0
SEMESTER VIII (DIETARY SUPPLEMENTS AND NUTRACEUTICALS)		
Functional foods, Nutraceuticals	Stress and Anxiety Relieving Super Foods	https://youtu.be/jX0Od9WrMzk
Dietary supplements	Daily Recommended Dietary Fibers	https://youtu.be/TPV3PYqEY1M
Functional foods,	Natural Powerful Antibiotics	https://youtu.be/BOYzkaRxHh8
Functional foods, Nutraceuticals	Cholesterol Lowering Foods	https://youtu.be/cyJ3vP6HLfI

Sr. No.	**COMPETITIVE EXAM PREPARATION (ALL SUBJECTS)**	
	Subjects	**Video content link**
1.	Pharmaceutics	https://youtu.be/btONOaPoPBM
2.	Biochemistry MCQs GPAT 2016	https://youtu.be/9i8jjvqYnag
3.	Physical Pharmacy MCQ's for GPAT 2016	https://youtu.be/_A5yAHOB5Gw
4.	Pharmacognosy MCQ's from GPAT 2016	https://youtu.be/WX65dxKYYMs
5.	Pharmaceutical Chemistry MCQ's from GPAT 2017	https://youtu.be/y-uFAV683S4
6.	Pharmaceutical Analysis MCQ's from GPAT 2017	https://youtu.be/MieMLGOLaEI
7.	Pharmacology MCQ's from GPAT 2017	https://youtu.be/qVXM46D7too
8.	Pharmaceutics MCQ's from GPAT 2017	https://youtu.be/bZHQNjJTtMY
9.	Pharmacognosy MCQ's from GPAT 2017	https://youtu.be/R--HAO3JaPE
10.	Biochemistry MCQ's from GPAT 2017	https://youtu.be/v_Nq-KWIS7s
11.	Pharmaceutical Jurisprudence and Management MCQ's	https://youtu.be/y2jYU-TTzAg
12.	Pharmaceutical Chemistry MCQ's from GPAT 2018	https://youtu.be/NF-LWprMkP4

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13.	Pharmaceutics MCQ's from GPAT 2018 with Answers	https://youtu.be/rpl1iJk_oTI
14.	Human Anatomy and Physiology MCQS	https://youtu.be/bhgFSruEgJo
15.	Pharmaceutical Analysis MCQS	https://youtu.be/ynqr8Gee6WE
16.	Valproate Side Effects II Quick tricks to learn faster	https://youtu.be/ZA78aFcKSBc
17.	Captopril Side Effects II Quick tricks to learn faster	https://youtu.be/K8RXEofNjxU
18.	Medicines Causing Urine Discoloration	https://youtu.be/TX82WfbgMqg
19.	Pharmacy Other subjects MCQs	https://youtu.be/oaGEgND3K_A
20.	Pharmacognosy MCQs with answers GPAT 2018	https://youtu.be/52LMK8VMLTE
21.	GPAT 2018 Pharmacology MCQs	https://youtu.be/ZzEY8Y3depI
22.	Top 10 Pharma Companies 2017	https://youtu.be/KEsAEwZsCuM
23.	Top 10 drugs in the world, 2017	https://youtu.be/UaA5A3bftM4

Sr. No	**COMPETITIVE EXAM PREPARATION (ALL SUBJECTS)**	
	Current Affairs	**Video content link**
1.	FDA approved Egaten for the treatment of fascioliasis	https://youtu.be/7DJIClDITQo
2.	New Drugs Approved by FDA in January 2019	https://youtu.be/OSt5y79iatc
3.	New Drugs Approved by FDA in DECEMBER 2018	https://youtu.be/fiHM35AbfQM
4.	New Drugs Approved by FDA in NOVEMBER 2018	https://youtu.be/-wwSxHserg4
5.	New Drugs Approved by FDA in OCTOBER 2018	https://youtu.be/pTjl4wauZ3k
6.	FDA approved New Drug Xofluza for flu treatment	https://youtu.be/EBOQM0nACjA
7.	New Drug for Metastatic Breast Cancer	https://youtu.be/6ut00bxRP-8
8.	New Drugs Approved in SEPTEMBER 2018	https://youtu.be/rMk7sPlb19s
9.	FDA approved Ajovy Injection for Migraine	https://youtu.be/WGiprp3E6Bc

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10.	FDA Approves New Lotion to Treat Acne	https://youtu.be/ED04yFYW7q4
11.	New Drugs Approved by FDA in AUGUST 2018	https://youtu.be/nqGCZylt028
12.	FDA approves Vaginal ring contraceptive Annovera	https://youtu.be/dwN3yUWCyKc
13.	FDA approved Mulpleta for thrombocytopenia	https://youtu.be/-F5b5WhoPc0
14.	New Approved Treatment for Rare Adrenal Tumors	https://youtu.be/QXvMQ3MQr2o
15.	New Drugs Approved by FDA in JULY 2018	https://youtu.be/PcVWxtNbV8E
16.	FDA Approves New Pill for Endometriosis Pain	https://youtu.be/OaUCCkq2-vY
17.	FDA Approved New Drug for Malaria	https://youtu.be/ejBsgvkGqkI
18.	USFDA Approved Symtuza for HIV-1 Infection	https://youtu.be/wZPFxAhGL6s
19.	FDA Recalled Blood Pressure Medicine	https://youtu.be/2fD8B7jcD30
20.	First Drug for Excessive Underarm Sweating	https://youtu.be/6bNJnrp5LfI
21.	World's Best-Selling Drug Surprising facts	https://youtu.be/1TFpn_T0F5o
22.	New Drugs Approved by FDA in JUNE 2018	https://youtu.be/DN8Kp3F1UEQ
23.	First Marijuana-Based Medicine for Epilepsy	https://youtu.be/v9eNRYSN9Oc
24.	World's first Digital Pill	https://youtu.be/E4Va8krlK30
25.	New Drug Approved in May 2018	https://youtu.be/sQtahSWp7ok
26.	New drugs approved in APRIL 2018	https://youtu.be/8jUleykaGAc
27.	New Drugs approved in MARCH 2018	https://youtu.be/TNub5zXjo-8
28.	New drugs approved in February 2018	https://youtu.be/WTjOM0zYL90
29.	New Drugs Approved in December 2017	https://youtu.be/pdMlfyONStw
30.	New drugs approved in October 2017	https://youtu.be/3lwY6rfXALM

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LINKS OF YOUTUBE DATABASE

PROGRAM	PHARM. D
CLASS AND SEMESTER	FIRST YEAR PHARM. D
NAME OF SUBJECT	HUMAN ANATOMY AND PHYSIOLOGY (THEORY)
SUBJECT TEACHER	MR. V. H. POTDAR

Structure and functions of cell	https://www.youtube.com/watch?v=lz1o0jt0d5E
Elementary tissues of the human body	https://www.youtube.com/watch?v=-a8nXxubPbI https://www.youtube.com/watch?v=i5tR3csCWYo
Hemopoiesis	https://www.youtube.com/watch?v=dn3FI66LPNY
Clotting factors and mechanism	https://www.youtube.com/watch?v=x8TLTTyyPfI&t=167s
Blood groups	https://www.youtube.com/watch?v=cKnEdvrmHK4 https://www.youtube.com/watch?v=xfZhb6lmxjk
Anatomy and functions of heart	https://www.youtube.com/watch?v=Myf8FcsFB6M https://www.youtube.com/watch?v=28CYhgjrBLA
Electrocardiogram	https://www.youtube.com/watch?v=deEiRCvekTU https://www.youtube.com/watch?v=xIZQRjkwV9Q
Cardiac cycle	https://www.youtube.com/watch?v=IS9TD9fHFv0 https://www.youtube.com/watch?v=R6HjpcX8itc
Respiratory system	https://www.youtube.com/watch?v=lLUFXrQ0g14 https://www.youtube.com/watch?v=Aw9OJLTlClQ
Mechanism / physiology of respiration	https://www.youtube.com/watch?v=wc2K1Olt4Q8

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Anatomy of GIT	https://www.youtube.com/watch?v=vbYCzSN11r4
Anatomy and Functions of Salivary Glands, Pancreas and Liver	https://www.youtube.com/watch?v=410lWT0gJEw
Digestion and Absorption of Nutrients	https://www.youtube.com/watch?v=rbtcAVUN7A8
Anatomy and Physiology of theLiver	https://www.youtube.com/watch?v=KpqrvAtoMeM
Nervous system	https://www.youtube.com/watch?v=Asy-Jd5SJn4
Nerve Impulse, Receptors, Synapse, Neurotransmitters	https://www.youtube.com/watch?v=rO81T9in1tw
Sympathetic Nervous System	https://www.youtube.com/watch?v=MHwvE42NNvQ
Peripheral Nervous System	https://www.youtube.com/watch?v=3m4aBbuyizI
Autonomic Nervous System	https://www.youtube.com/watch?v=gBCHknZOIXY
Urinary system	https://www.youtube.com/watch?v=rXmYE1ehQpE
Formation of urine	https://www.youtube.com/watch?v=9_h0ZXx1lFw
Endocrine system	https://www.youtube.com/watch?v=lF5QTRT7oo0
Male reproductive system	https://www.youtube.com/watch?v=Y1Hj5k1MM_U
Female reproductive system	https://www.youtube.com/watch?v=pwxm8HCRpm4
Contraceptive devices	https://www.youtube.com/watch?v=A-bmcFvIUTM
Structure and Functions of Eye	https://www.youtube.com/watch?v=CIVRZmylJPc
Structure and Functions of Tongue	https://www.youtube.com/watch?v=pj_edMCZ-mE

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Physiology of Muscle contraction	https://www.youtube.com/watch?v=bjyM13pe9NA
Sports physiology	https://www.youtube.com/watch?v=tOvp8dLMWf0

CLASS AND SEMESTER	First Year M. Pharm (Pharmaceutics) Sem: II
NAME OF SUBJECT	Computer Aided Drug Development
SUBJECT TEACHER	Mrs. Shalaka Patki

Unit I Computers in Pharmaceutical Research and Development	Computers in research and development: https://youtu.be/wH8W7WaDn8c
	Statistical modeling in Pharmaceutical research: https://youtu.be/onWeTAUW-E0 https://youtu.be/VGNa1y7Elro https://youtu.be/aJNYxAK8rIY
	Quality-by-Design in Pharmaceutical Development: https://youtu.be/cSIeMLZ7EY8
	ICH Q8 guideline: https://youtu.be/9uOGoZ2ZOTs
Unit II Computational Modeling of Drug Disposition	Modeling Techniques: https://youtu.be/Fe9PGGmRhEk
	Drug Transporters: https://youtu.be/KuXNg1SZAkE
Unit III Computer-aided formulation development	Optimization technology & Screening design: https://www.youtube.com/live/V2WGlaCF2dY?feature=share
	Development of pharmaceutical emulsions, microemulsion drug carriers:https://youtu.be/wmPhPgBG03I https://youtu.be/yQVKtl80iU8
	The Ethics of Computing inPharmaceutical Research: https://youtu.be/GW_t_Rx0V80
Unit IV Computer-aided biopharmaceutical characterization	The benefits of using modeling and simulation in drug development: https://youtu.be/o2ntCRCgpUM Gastrointestinal absorption simulation:https://youtu.be/f4Ig-lgugmk https://youtu.be/-pE9pnOt-RM https://youtu.be/RpIlqEuXn4c

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	Computer Simulations in Pharmacokinetics and Pharmacodynamics: https://youtu.be/9sh7CKx9QKw Computers in Clinical Data Management: https://youtu.be/F2zvZ4EqC9E
Unit V Artificial Intelligence (AI), Robotics	Artificial Intelligence in Pharma industry: https://youtu.be/cmQKsug16Sg https://youtu.be/NhyRPVszj0A https://youtu.be/V1npUPHlmMY

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Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process

CLASS AND SEMESTER	Final Year B. Pharm, SEM: 7 & 8
NAME OF SUBJECT	Instrumental Methods of Analysis and Advanced Instrumentation Techniques
SUBJECT TEACHER	Dr. Amol Sherikar

Unit I Flame Photometry	https://www.youtube.com/watch?v=BBhuXOh9vOM
	https://www.youtube.com/watch?v=6G79NGBWCY8
	https://www.youtube.com/watch?v=hm7hMtM4oSQ
Unit II LC-MS-MS	https://www.youtube.com/watch?v=EFPlLnnIkZ0
Unit III GC-MS-MS	https://www.youtube.com/watch?v=OVXCcBw0iCQ
Unit IVIR - Spectroscopy	https://www.youtube.com/watch?v=OiukFtC8E04
	https://www.youtube.com/watch?v=PSfrgOdxAj8
	https://www.youtube.com/watch?v=W6mjL7tNwJ8
	https://www.youtube.com/watch?v=lTAHqg_Q_5I
	https://www.youtube.com/watch?v=q_2pYI5tG34
Unit VMass Spectroscopy	https://www.youtube.com/watch?v=myolF-h1kKI

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CLASS AND SEMESTER	SECOND YEAR B. PHARM, SEM: 4
NAME OF SUBJECT	PHARMACOGNOSY & PHYTOCHEMISTRY-I
SUBJECT TEACHER	Mr. Onkar Patil

Unit I	**Vein islet palisade ratio**	**https://youtu.be/gJmoaHpGxVo**
Unit II	Organic Farming Biodiversity In-situ conservation	https://youtu.be/asydgOaIr0w https://youtu.be/GK_vRtHJZu4 https://youtu.be/1QBrzT99y34
Unit III	Plant tissue culture Edible vaccine	https://youtu.be/uPuxS1kxdVY https://youtu.be/AZN8dZqqMcw
Unit IV	Panch Mahabhutas	https://youtu.be/rDX0ievbiRY
Unit V	Collection of Bee wax	https://youtu.be/-RWbTIgmHEY

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CLASS AND SEMESTER	FIRST YEAR B. PHARM, SEM: 2
NAME OF SUBJECT	BIOCHEMISTRY
SUBJECT TEACHER	MS. SAYALI D POWAR

Unit I Biomolecules	**Carbohydrates:** https://youtu.be/jQi84TnstI4
	Fats: https://youtu.be/BVxeeiR7JB0
	Amino acids: https://youtu.be/1WJXA7rFteg
	Proteins: https://youtu.be/HSCUAjZQhXI
Unit II Carbohydrate metabolism	**Glycolysis:** https://youtu.be/yOyb23Sr1Vk
	Citric acid cycle: https://youtu.be/_k0XvDHWJeQ
	Electron transport chain: https://youtu.be/nCr3iCzX4lc
Unit III Lipid & Amino acid metabolism	**β-Oxidation of saturated fatty acid:** https://youtu.be/slCmrtFHFQQ
	Urea cycle: https://youtu.be/RJ5NI7tEzio
	Atherosclerosis: https://youtu.be/N33JsBeziEY
Unit IV Nucleic acid metabolism and genetic information	**Protein synthesis inhibitors:** https://youtu.be/ehSwB0g5sxI
	Protein synthesis: https://youtu.be/ubdoUqmNF98
Unit V Enzymes	**Coenzymes & enzymes:** https://youtu.be/ywzcbyZepWs

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Criteria 2: Teaching-learning and Evaluation
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CLASS AND SEMESTER	SECOND YEAR B. PHARM, SEM: IV
NAME OF SUBJECT	PHYSICAL PHARMACEUTICS-II
SUBJECT TEACHER	TEJASWINI SHINDE

Unit I Colloidal dispersions	**Colloidal dispersions:** https://www.youtube.com/watch?v=5R-JzPDD5jc
	Properties of colloids: https://www.youtube.com/watch?v=h150OKCfRjk
Unit II Rheology	**Rheology:** https://www.youtube.com/watch?v=51hAeFPP57s
	Non- Newtonian system: https://www.youtube.com/watch?v=51hAeFPP57s
	Deformation of solid: https://www.youtube.com/watch?v=UxrviKjDir8
Unit III Coarse dispersion	**Coarse dispersion:** https://www.youtube.com/watch?v=zbngmq7gsrk
	Formulation and theories of emulsion: https://www.youtube.com/watch?v=dddrgircgyw
Unit IV Micromeritics	**Micromeritics:** https://www.youtube.com/watch?v=ecjmlw5wjww
	Particle size determining method: https://www.youtube.com/watch?v=ibdp2wqbqno
Unit V Drug stability	**Drug stability and chemical kinetics:** https://www.youtube.com/watch?v=i3g7qzhuiaw
	Physical & chemical factors influencing rate of reaction: https://www.youtube.com/watch?v=b8frixlqmu8

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Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process

CLASS AND SEMESTER	THIRD YEAR B. PHARM SEM: VI
NAME OF SUBJECT	PHARMACOLOGY-III
SUBJECT TEACHER	SANDEEP CHAVAN

Unit I Pharmacology of drugs acting on Respiratory system Pharmacology of drugs acting on the astrointestinalTract	https://www.youtube.com/watch?v=XfM0jIc5z1U&t=928s https://www.youtube.com/watch?v=R8mV5rBbIt0
	https://www.youtube.com/watch?v=p4hRKEPmATo https://www.youtube.com/watch?v=p4hRKEPmATo&t=24s
Unit II Chemotherapy General principles • Sulfonamides	https://www.youtube.com/watch?v=LdiRH0h_xU0
	https://www.youtube.com/watch?v=ynsMzqgWe7E
Unit III Chemotherapy • Antitubercular • Antifungal • Antiviral • Anthelmintic • Antimalarial • Antiamoebic	https://www.youtube.com/watch?v=J63yXkXiAMk
	https://www.youtube.com/watch?v=87NZK8XW_Fg
	https://www.youtube.com/watch?v=cDvYBP2jNiw
	https://www.youtube.com/watch?v=ddq3ge6XYO0
	https://www.youtube.com/watch?v=gWPgmtxkN6Y
	https://www.youtube.com/watch?v=RAVfM8ebkTY
Unit IV Chemotherapy • UTI STD Immunopharmacology	https://www.youtube.com/watch?v=2wL_VZ8W-1k
	https://www.youtube.com/watch?v=JpO2jt847Ls
Unit V • Principles of toxicology Chronopharmacology	https://www.youtube.com/watch?v=HP3m9Jtlq8Y https://www.youtube.com/watch?v=DX0ztvv7Lc8 https://www.youtube.com/watch?v=kcD7ZdeiKds

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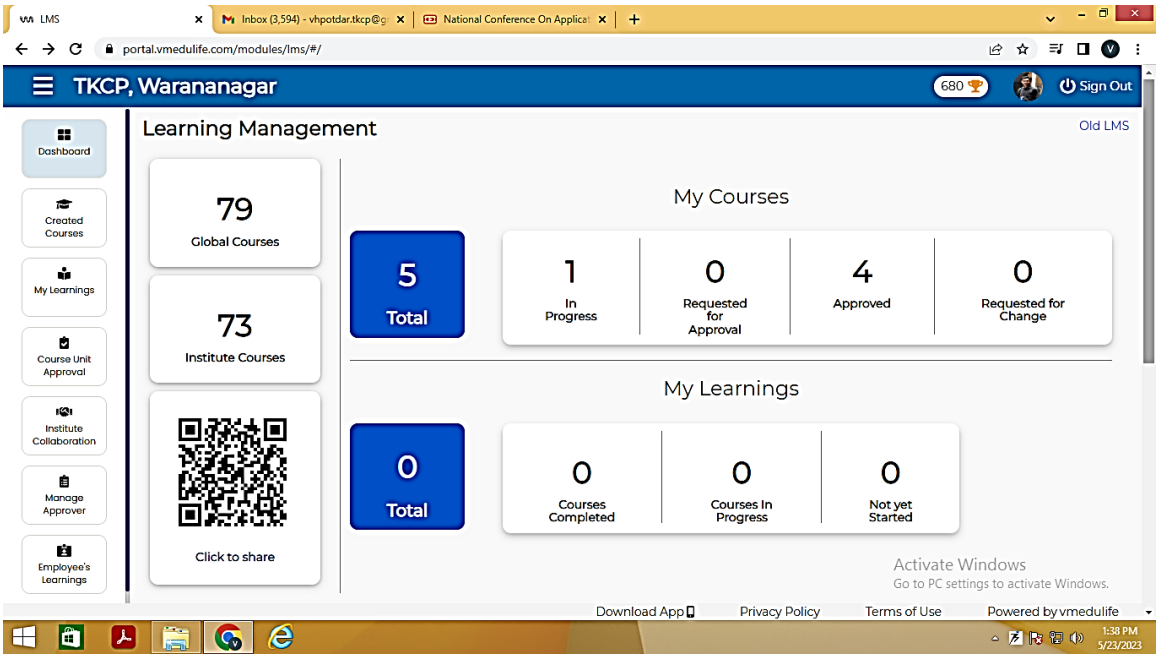
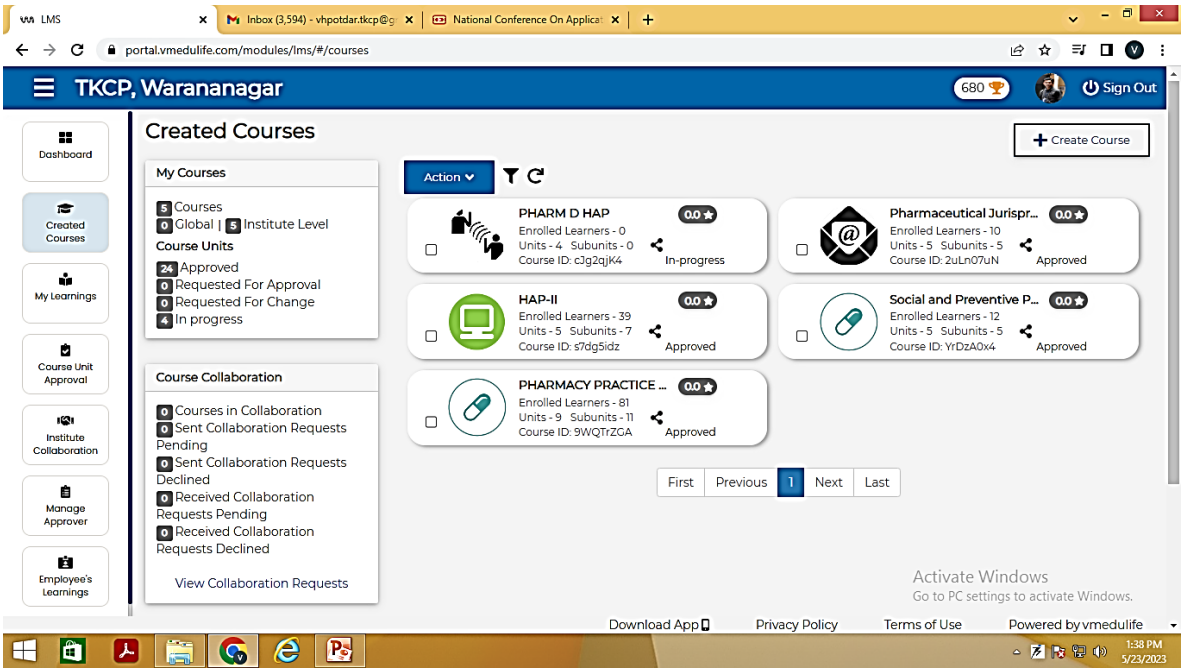
Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process

USE OF LEARNING MANAGEMENT SYSTEM





Example of courses developed by Faculty

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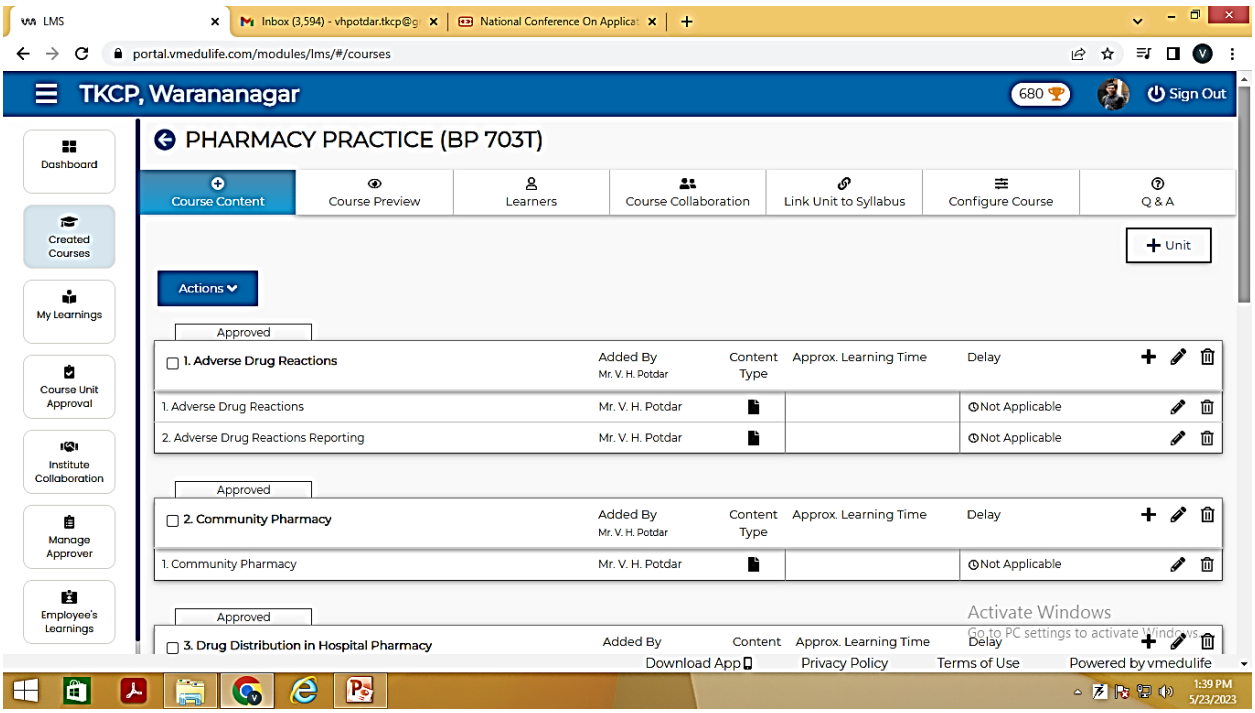
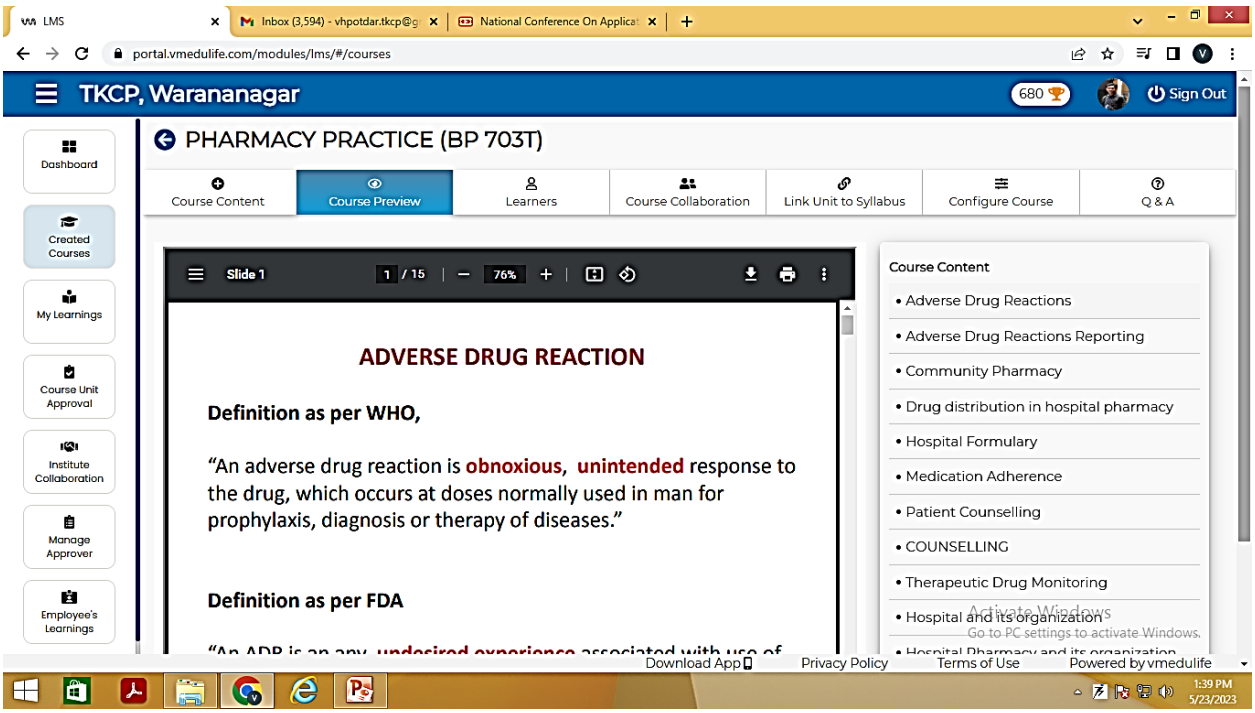


Sample Course Content



Sample Course Content

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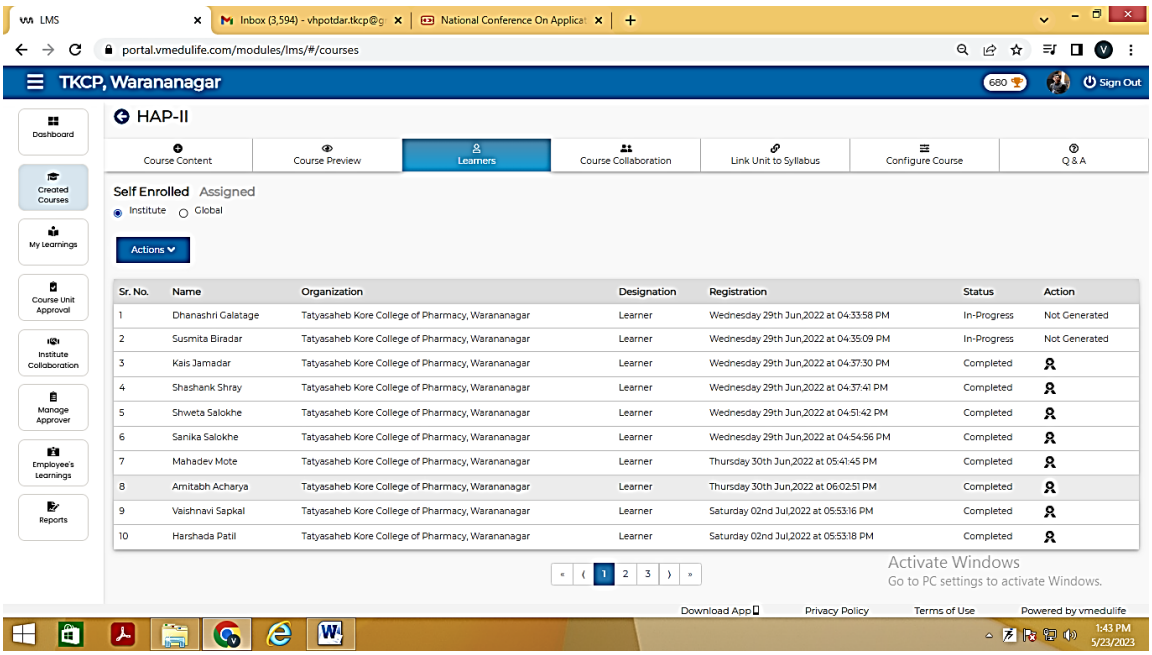

Student enrolment for LMS courses.

CERTIFICATE

This is to certify that

RUTUJA CHOUGALE

from organisation

Tatyasaheb Kore College of Pharmacy, Warananagar

has completed the course

PHARMACY PRACTICE (BP 703T)

sponsored by

Tatyasaheb Kore College of Pharmacy, Warananagar

on Tuesday 23rd of May 2023 .

This is system generated certificate.

Sample certificate after course completion

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Tatyasaheb Kore College of Pharmacy, Warananagar

Individual Instructor Course Report

Sr.No.	Instructor Name	Course Title	Created Date
1	Mrs. Sunita Sakharam Shinde	BP 502 T. Industrial P... BP 702 T. INDUSTRIA... COSMETICS AND CO... MOLECULAR PHARM... BRM Final Year Sem-... Regulatory Affairs Pharmacognosy - I	01st Feb,2022 04th Feb,2022 03rd May,2022 06th May,2022 29th Mar,2023 03rd Apr,2023 21st May,2023
2	Mr. P. S. Kumbhar	Pharmaceutical Micr... Modern Pharmaceuti... ABP Advanced Biopharm...	02nd Feb,2022 02nd Feb,2022 05th May,2022 11th Jun,2022
3	Mr. SHINDE MAYURESH	Narcotic analgesics a... Course material MC-II...	11th Feb,2022
4	Dr. A. S. Shenkar	Instrumental Method... ADVANCED INSTRU... Hazards and Safety M...	02nd Feb,2022 28th Jun,2022 07th Jul,2022
5	Mrs. S.D. Gaikwad	Pharmaceutical Anal... Medicinal Chemistry 1 Pharma. Organic Che... PHARMACEUTICAL M...	17th Feb,2022 28th Jun,2022 30th Jun,2022 02nd Sep,2022
6	Mrs. S. D. Powar	PHARMACEUTICAL I... QUALITY CONTROL A... Biochemistry QUALITY ASSURANCE	02nd Feb,2022 02nd Feb,2022 14th Jun,2022 14th Jun,2022
7	Mr. V. H. Potdar	PHARMACY PRACTIC... Social and Preventive... HAP-II Pharmaceutical Juris... PHARM D HAP	01st Feb,2022 20th Jun,2022 25th Jun,2022 30th Jun,2022 11th Apr,2023
8	Mr. Sandeep Chavan	Human Anatomy and...	22nd May,2023

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Criteria 2: Teaching-learning and Evaluation
Key Indicator 2.3: Teaching- Learning Process

Tatyasaheb Kore College of Pharmacy, Warananagar

Individual Instructor Course Report

Sr.No.	Instructor Name	Course Title	Created Date
1	Mr. Sandeep Chavan	PHARMACOLOGY-2 Pharmacology-III Pathophysiology Social and Preventive... Pharmacology- III Pra...	02nd Feb,2022 27th Jun,2022 27th Jun,2022 27th Jun,2022 27th Jun,2022
2	Mr. Ajit Patil	PATHOPHYSIOLOGY PHARMACOLOGY_I	04th Jul,2022 05th Jul,2022
3	Dr. M.C.MAHANTHESH MATTAD	Pharmacognosy & Ph... Pharmaceutical Juris... Pharmacognosy & Ph...	02nd Feb,2022 02nd Feb,2022 05th Feb,2022
4	Shalaka Patki	Physical Pharmaceut... Computer Aided Dru... Drug Delivery Systems Pharmaceutical Man...	03rd Feb,2022 13th Jun,2022 28th Jun,2022 28th Jun,2022
5	Mr. KIRAN PATIL	Pharmaceutical Anal... Pharmaceutical Quali... Physical Pharmacutic... Industrial Pharmacy II MODERN PHARMAC... GPAT 2022 Pharmaceutical Quali... Pharma Marketing M...	02nd Feb,2022 02nd Feb,2022 30th Jun,2022 30th Jun,2022
6	Dr. Sanjeevani Desai	T. Y. Bharm M.Pharm Sem-II	
7	Mr. S. S. Chopade	QUALITY ASSURANCE Herbal Drug Technol... Pharmaceutics- I Pharmaceutical Engi... Pharmaceutical Valid... PHARMACEUTICAL J...	14th Jun,2022 27th Jun,2022 27th Jun,2022 27th Jun,2022 27th Jun,2022 05th Dec,2022

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Tatyasaheb Kore College of Pharmacy, Warananagar

Individual Instructor Course Report

Sr.No.	Instructor Name	Course Title	Created Date
1	Mr. Pratik Prakash Maske	Second Year B.Pharm...	
2	Mr. Pritesh Lole	Communication Skills Remedial Mathemati... Computer Applicatio... Environmental Scien...	02nd Feb,2022 03rd Feb,2022 26th May,2022 26th May,2022
3	Vinay Bagal	PHARMACEUTICAL C... PHARMA MARKETIN... PHARMACEUTICAL O... POC 2 Pharm D. students P...	30th Jun,2022 30th Jun,2022 30th Jun,2022 03rd Oct,2022 11th May,2023
4	Uma Mali	PHARMACEUTICAL E... Physical Pharmacy- II Pharmaceutical Biote...	01st Feb,2022 30th Jun,2022 01st Jul,2022

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Project Group Learning

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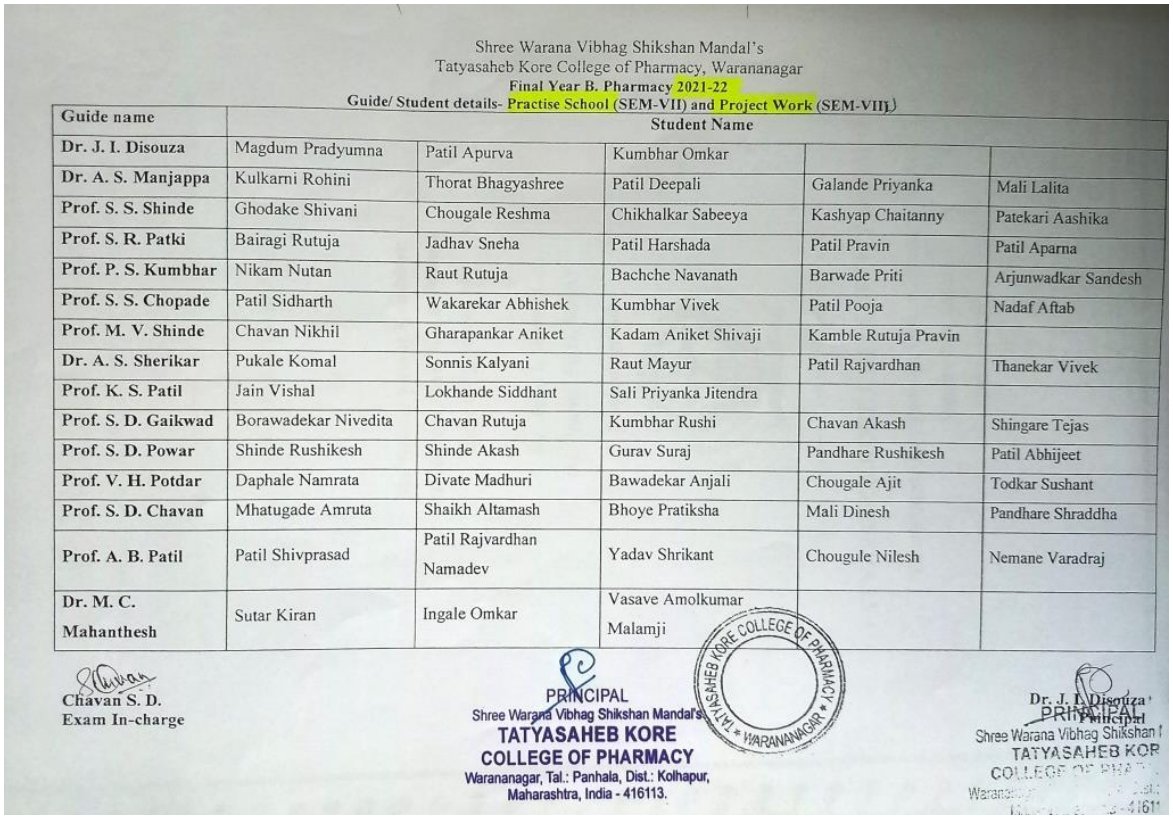

Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy, Warananagar
Final Year B. Pharmacy 2021-22
Guide/ Student details- Practise School (SEM-VII) and Project Work (SEM-VIII)

Guide name	Student Name				
Dr. J. I. Disouza	Magdum Pradyumna	Patil Apurva	Kumbhar Omkar		
Dr. A. S. Manjappa	Kulkarni Rohini	Thorat Bhagyashree	Patil Deepali	Galande Priyanka	Mali Lalita
Prof. S. S. Shinde	Ghodake Shivani	Chougale Reshma	Chikhalkar Sabeeya	Kashyap Chaitanny	Patekari Aashika
Prof. S. R. Patki	Bairagi Rutuja	Jadhav Sneha	Patil Harshada	Patil Pravin	Patil Aparna
Prof. P. S. Kumbhar	Nikam Nutan	Raut Rutuja	Bachche Navanath	Barwade Priti	Arjunwadkar Sandesh
Prof. S. S. Chopade	Patil Sidharth	Wakarekar Abhishek	Kumbhar Vivek	Patil Pooja	Nadaf Aftab
Prof. M. V. Shinde	Chavan Nikhil	Gharapankar Aniket	Kadam Aniket Shivaji	Kamble Rutuja Pravin	
Dr. A. S. Sherikar	Pukale Komal	Sonnis Kalyani	Raut Mayur	Patil Rajvardhan	Thanekar Vivek
Prof. K. S. Patil	Jain Vishal	Lokhande Siddhant	Sali Priyanka Jitendra		
Prof. S. D. Gaikwad	Borawadekar Nivedita	Chavan Rutuja	Kumbhar Rushi	Chavan Akash	Shingare Tejas
Prof. S. D. Powar	Shinde Rushikesh	Shinde Akash	Gurav Suraj	Pandhare Rushikesh	Patil Abhijeet
Prof. V. H. Potdar	Daphale Namrata	Divate Madhuri	Bawadekar Anjali	Chougale Ajit	Todkar Sushant
Prof. S. D. Chavan	Mhatugade Amruta	Shaikh Altamash	Bhoye Pratiksha	Mali Dinesh	Pandhare Shraddha
Prof. A. B. Patil	Patil Shivprasad	Patil Rajvardhan Namadev	Yadav Shrikant	Chougule Nilesh	Nemane Varadraj
Dr. M. C. Mahanthesh	Sutar Kiran	Ingale Omkar	Vasave Amolkumar Malamji		

Chavan S. D.
Exam In-charge

PRINCIPAL
Shree Warana Vibhag Shikshan Mandal's
TATYASAHEB KORE
COLLEGE OF PHARMACY
Warananagar, Tal.: Panhala, Dist.: Kolhapur,
Maharashtra, India - 416113.

Dr. J. I. Disouza
PRINCIPAL
Principal
Shree Warana Vibhag Shikshan
TATYASAHEB KOR
COLLEGE OF PHA

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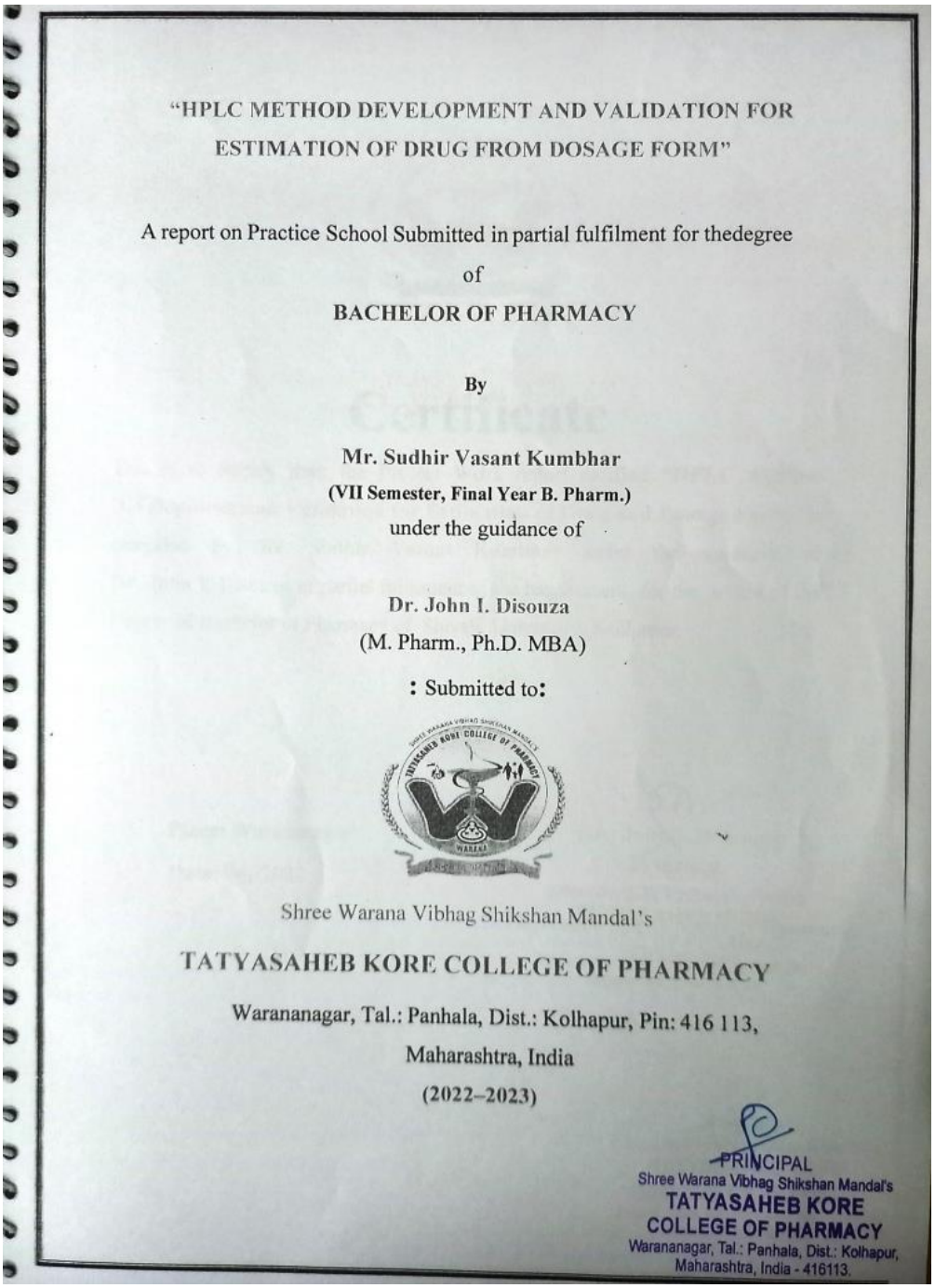

"HPLC METHOD DEVELOPMENT AND VALIDATION FOR ESTIMATION OF DRUG FROM DOSAGE FORM"

A report on Practice School Submitted in partial fulfilment for thedegree of

BACHELOR OF PHARMACY

By

Mr. Sudhir Vasant Kumbhar
(VII Semester, Final Year B. Pharm.)
under the guidance of

Dr. John I. Disouza
(M. Pharm., Ph.D. MBA)

: Submitted to:

Shree Warana Vibhag Shikshan Mandal's
TATYASAHEB KORE COLLEGE OF PHARMACY
Warananagar, Tal.: Panhala, Dist.: Kolhapur, Pin: 416 113,
Maharashtra, India
(2022–2023)

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Maharashtra, India - 416113.

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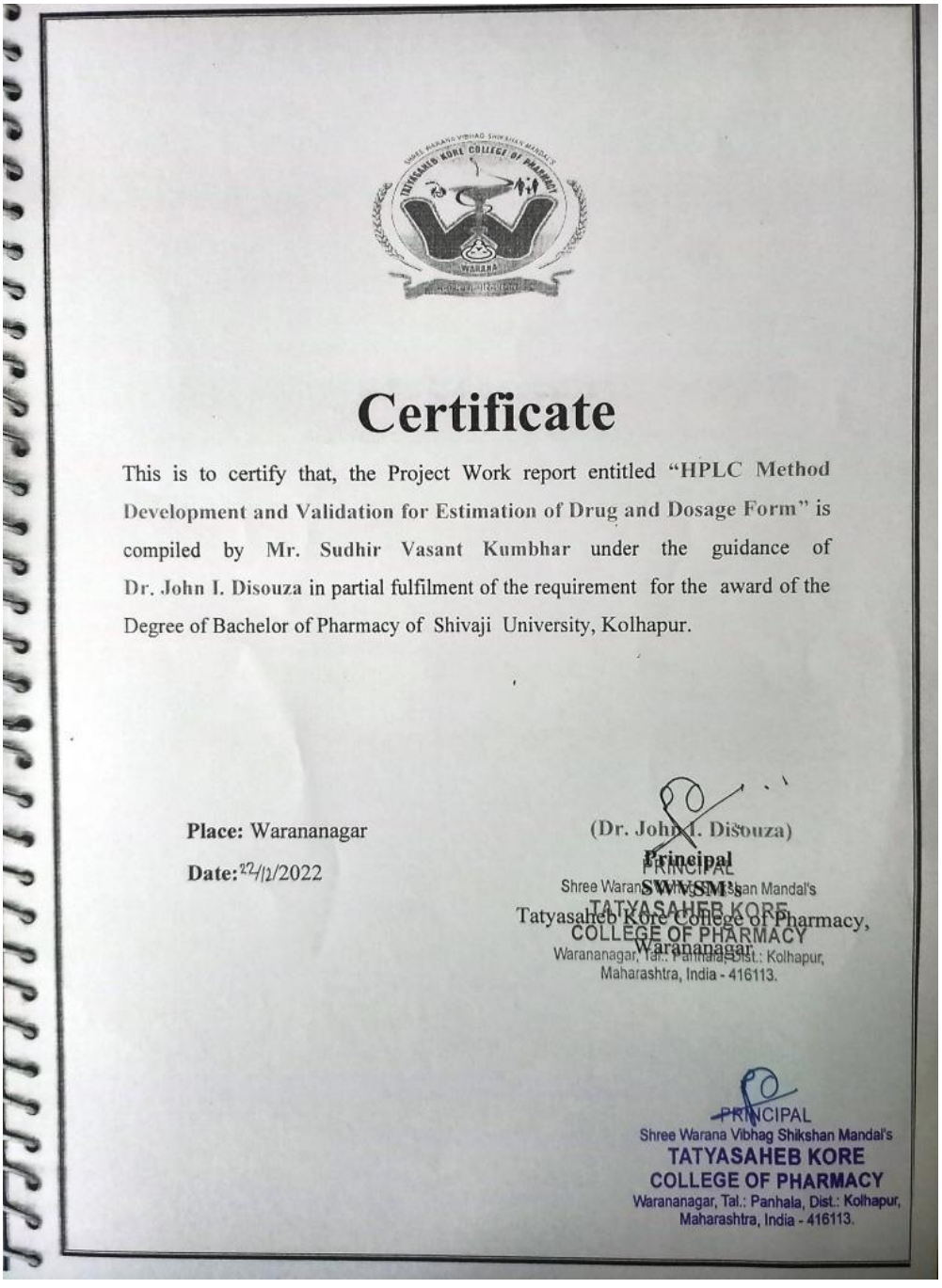

Certificate

This is to certify that, the Project Work report entitled "HPLC Method Development and Validation for Estimation of Drug and Dosage Form" is compiled by Mr. Sudhir Vasant Kumbhar under the guidance of Dr. John I. Disouza in partial fulfilment of the requirement for the award of the Degree of Bachelor of Pharmacy of Shivaji University, Kolhapur.

Place: Warananagar

Date: 22/12/2022

(Dr. John I. Disouza)
Principal
Tatyasaheb Kore College of Pharmacy,
Warananagar

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