



Indira Bahuuddeshiya Shikshan Sanstha's Dr. Rajendra Gode College of Pharmacy, Malkapur

Teaching Learning Process



Industrial Learning
Tutorial sessions
Equipment simulations
Lab Experiments



Industrial Visit
Poster presentations
Power Point presentations
Conferences, Seminars,
and Workshops

ICT Tools
DELNET
e-journals, e-books,
Molecular docking
software, Zoom &
Research Gate and
Google Scholar

Students
Centric
Methods

YouTube

WhatsApp

Publications/
Presentation by
students
Self-directed
learning

Pedagogical
Activities:
Think Pair Share
Kahoot
Gamification
Group Discussion

Problem Solving
Methodologies
Assignment
learning
Project-based
learning



Google Classroom



Kahoot!

DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2021-22 EVEN SEMESTER

This timetable will be effective from 25/04/2022

D A Y	CLAS S	09.30 AM - 10.30A M	10.30 AM - 11.30A M	11.30 AM - 12.30P M	12.30 PM - 01.30P M	01.30 PM - 02.00 PM	02.00 PM - 03.00 PM	03.00 PM - 04.00 PM	04.00 PM - 05.00 PM	05.00 PM - 06.00 PM
Monday	SEM II	HAP-II (MND) Batch-(A) Biochem (CSC) Batch-(B) POC-I (RPG) Batch-(C) CAP (APJ) Batch-(D) (2hr)				R	HAP-II (MND)	POC-I (RPG)	Biochem (PPC)	Patho (MBN)
Tuesday	SEM II	CAP (APJ) Batch-(A) (2hr) HAP-II (RRP) Batch-(B) Biochem (CSC) Batch-(C) POC-I (RPG) Batch-(D)				E	HAP-II (MND)	Biochem (PPC)	POC-I (RPG)	Patho (MBN)
Wednesday	SEM II	POC-I (RPG) Batch-(A) CAP (APJ) Batch-(B) (2hr) HAP-II (MND) Batch-(C) Biochem (PPC) Batch-(D)				C	HAP-II (MND)	POC-I (RPG)	Biochem (PPC)	Patho (MBN)
Thursday	SEM II	Biochem (PPC) Batch-(A) POC-I (RPG) Batch-(B) CAP (APJ) Batch-(C) (2hr) HAP-II (MND) Batch-(D)				E	CAP (APJ)	HAP-II (MBN)	POC-I (RPG)	EVS (RRP)
Friday	SEM II	CAP (APJ)	Patho (MND)	EVS (RRP)	Biochem (PPC)	S	EVS (RRP)	-	-	-

Academic Dean

Dr. V.S. Adhao

Academic Dean
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Principal

Dr. P.K. Deshmukh
Principal,
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Dist. Buldana.



DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2021-22 SEMESTER-IV

This timetable will be effective from 20/03/2023

DAY	CLASS	09.30 AM - 10.30AM	10:30 AM - 11.30AM	11.30 AM - 12.30PM	12.30 PM - 01.30P M	01.30 PM - 02.00 PM	02.00 PM - 06.00 PM
Monday	SEM IV	P.P.-II (MWB)	Medi. Chem-I (VMS)	P'cog &Phyto (PSL)	P'col-I (KPG)	R	P.P.-II (MWB) Batch-A Medi.Chem-I (KRP) Batch-B P'col-I (RRT) Batch-C P'cog&Phyto (PSL) Batch-D
Tuesday	SEM IV	P'cog &Phyto (PSL)	P.P.-II (MWB)	POC-III (VSA)	P'col-I (KPG)	E	P.P.-II (MWB) Batch-B Medi.Chem-I (KRP) Batch-C P'col-I (RRT) Batch-D P'cog&Phyto (PSL) Batch-E
Wednesday	SEM IV	POC-III (VSA)	P'cog &Phyto (PSL)	P.P.-II (MWB)	Medi. Chem-I (VMS)	C	P.P.-II (MWB) Batch-C Medi.Chem-I (VMS) Batch-D P'col-I (GDM)Batch-E P'cog&Phyto (PSL) Batch-A
Thursday	SEM IV	Medi. Chem-I (VMS)	P'cog &Phyto (PSL)	POC-III (VSA)	P'col-I (KPG)	E	P.P.-II (MPM) Batch-D Medi.Chem-I (VMS) Batch-E P'col-I (GDM) Batch-A P'cog&Phyto (PKG) Batch-B
Friday	SEM IV	Medi. Chem-I (VMS)	P.P.-II (MWB)	P'col-I (KPG)	POC-III (VSA)	S	P.P.-II (MPM) Batch-E Medi.Chem-I (VMS) Batch-A P'col-I (GDM) Batch-B P'cog&Phyto (PKG) Batch-C
Saturday	SEM IV	-	-	-	-	S	-

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DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2022-23 SEMESTER-III

This timetable will be effective from 02/01/2023

DAY	CLASS	10.30 AM - 11.30A M	11.30 AM - 12.30P M	12.30 PM - 01.30P M	01.30 PM - 02.00 PM	02.00 PM - 03.00 PM	03.00 PM - 04.00 PM	04.00 PM - 05.00 PM
Monday	SEM III	P.P.-I (MWB)	POC-II (VMS)	Micro (GDM)	R	P.P.-I (MWB) Batch-A POC-II (VMS) Batch-B Micro (GDM) Batch-C P'Eng (PSL) Batch-D		
Tuesday	SEM III	P'Eng (JPA)	P.P.-I (MWB)	POC-II (VMS)	E	P.P.-I (MWB) Batch-B POC-II (VMS) Batch-C Micro (NBC) Batch-D P'Eng (PSL) Batch-E		
Wednesday	SEM III	Micro (GDM)	P'Eng (JPA)	P.P.-I (MWB)	C	P.P.-I (MWB) Batch-C POC-II (VMS) Batch-D Micro (NBC) Batch-E P'Eng (PSL) Batch-A		
Thursday	SEM III	POC-II (VMS)	Micro (GDM)	P'Eng (JPA)	E	P.P.-I (NBC) Batch-D POC-II (VMS) Batch-E Micro (GDM) Batch-A P'Eng (JPA) Batch-B		
Friday	SEM III	Micro (GDM)	P'Eng (JPA)	P.P.-I (MWB)	S	P.P.-I (NBC) Batch-E POC-II (VMS) Batch-A Micro (GDM) Batch-B P'Eng (JPA) Batch-C		
Saturday	SEM III	POC-II (VMS)	Library / Sports	Library / Sports	S	-	-	-

MWB- Prof. M.W. Babhulkar (Class Teacher)

GDM- Prof. G. D. Mehetre

VMS- Prof. V.M. Shejol

JPA- Prof. J.P. Ambhore

PSL- Prof. P. S. Lande

NBC- Prof. N. B. Chopade

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DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2022-23 SEMESTER-VI

This timetable will be effective from 23/01/2023

DAY	CLASS	09.30 AM - 10.30AM	10.30 AM - 11.30AM	11.30 AM - 12.30PM	12.30 PM - 01.30PM	01.30 PM – 02.00 PM	02.00 PM – 03.00 PM	03.00 PM – 04.00 PM	04.00 PM – 05.00 PM	05.00 PM – 06.00 PM
Monday	SEM VI	Medi. Chem.-III (AMR) Batch-A P'col-III (AGT) Batch-B HDT (LPJ) Batch-C				R	Medi. Chem.-III (AMR)	HDT (LPJ)	Quality Assura. (JPA)	Pharm Biotech (MPM)
Tuesday	SEM VI	Medi. Chem.-III (AMR) Batch-B P'col-III (AGT) Batch-C HDT (LPJ) Batch-D				E	P'col-III (AGT)	Pharm Biotech (MPM)	Medi. Chem.-III (AMR)	Quality Assura. (JPA)
Wednesday	SEM VI	Medi. Chem.-III (AMR) Batch-C P'col-III (AGT) Batch-D HDT (LPJ) Batch-E				C	Bio-Pharm (GDM)	P'col-III (AGT)	HDT (LPJ)	Medi. Chem.-III (AMR)
Thursday	SEM VI	Medi. Chem.-III (NBC) Batch-D P'col-III (KRP) Batch-E HDT (PKG) Batch-A				E	HDT (LPJ)	Bio-Pharm (GDM)	P'col-III (AGT)	Library/Sports
Friday	SEM VI	Medi. Chem.-III (NBC) Batch-E P'col-III (KRP) Batch-A HDT (PKG) Batch-B				S	Pharm Biotech (MPM)	Quality Assura. (JPA)	Bio-Pharm (GDM)	Library/Sports
Saturday	SEM VI		Medi. Chem.-III (AMR) (Tutorial)	P'col-III (AGT) (Tutorial)	Quality Assura. (JPA) (Tutorial)	S	Pharm Biotech (MPM) (Tutorial)	Bio-Pharm (GDM) (Tutorial)	HDT (LPJ) (Tutorial)	Library/Sports

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DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2022-23 SEMESTER-VIII

This timetable will be effective from 23/01/2023

DAY	CLASS	10.30 AM-11.30 AM	11.30 AM-12.30 PM	12.30 PM - 01.30 PM	01.30 PM - 02.00 PM	02.00 PM - 03.00 PM	03.00 PM - 04.00 PM	04.00 PM - 05.00 PM
Monday	SEM VIII	Cosm. Sci. (RRT)	Biostat & RM (PKD)	Social & Prev. Pharm. (MWB)	R	PV (MBN) PMM (RRP)	Project Work	Project Work
Tuesday	SEM VIII	Cosm. Sci. (RRT)	Biostat & RM (PKD)	Social & Prev. Pharm. (MWB)	E	PV (MBN) PMM (RRP)	Project Work	Project Work
Wednesday	SEM VIII	Cosm. Sci. (RRT)	Biostat & RM (PKD)	Social & Prev. Pharm. (MWB)	C	PV (MBN) PMM (RRP)	Project Work	Project Work
Thursday	SEM VIII	Cosm. Sci. (RRT)	Biostat & RM (PKD)	Social & Prev. Pharm. (MWB)	E	PV (MBN) PMM (RRP)	Project Work	Project Work
Friday	SEM VIII	Project Work	Project Work	Project Work	S	Project Work	TEST	TEST

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DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2022-23 SEMESTER-III

This timetable will be effective from 06/09/2022

D A Y	CLASS	09.30 AM - 01.30PM	01.30 PM - 02.00 PM	02.00 PM - 03.00 PM	03.00 PM - 04.00 PM	04.00 PM - 05.00 PM	05.00 PM - 06.00 PM
Monday	SEM III	P.P.-I (KRP) Batch-A POC-II (VMS) Batch-B Micro (GDM) Batch-C P'Eng (JPA) Batch-D	R	P.P.-I (MWB)	POC-II (VSA)	Micro (GDM)	P'Eng (JPA)
Tuesday	SEM III	P.P.-I (KRP) Batch-B POC-II (VMS) Batch-C Micro (PKG) Batch-D P'Eng (JPA) Batch-E	E	P'Eng (JPA)	P.P.-I (MWB)	POC-II (VSA)	Library /Test
Wednesday	SEM III	P.P.-I (MWB) Batch-C POC-II (VMS) Batch-D Micro (PKG) Batch-E P'Eng (CSC) Batch-A	C	Micro (GDM)	P'Eng (JPA)	P.P.-I (MWB)	Library /Test
Thursday	SEM III	P.P.-I (MWB) Batch-D POC-II (SPD) Batch-E Micro (PKG) Batch-A P'Eng (CSC) Batch-B	E	POC-II (VMS)	Micro (GDM)	P'Eng (JPA)	Library /Test
Friday	SEM III	P.P.-I (MWB) Batch-E POC-II (SPD) Batch-A Micro (PKG) Batch-B P'Eng (CSC) Batch-C	S	Micro (GDM)	POC-II (VMS)	P.P.-I (MWB)	Library /Test

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DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2022-23 SEMESTER-V

This timetable will be effective from 15/07/2022

DAY	CLASS	09.30 AM - 01.30PM	01.30 PM - 02.00 PM	02.00 PM - 03.00 PM	03.00 PM - 04.00 PM	04.00 PM - 05.00 PM	05.00 PM - 06.00 PM
Monday	SEM V	IP-I (NBC) Batch-A P'cog & Phyto. (LPJ) Batch-B P'col. (KPG) Batch-C Library Hours Batch-D Library Horus Batch -E	R	IP-I (RRT)	PJ (PSL)	P'col. (KPG)	Medi. Chem. (MAM)
Tuesday	SEM V	IP-I (NBC) Batch-B P'cog & Phyto. (LPJ) Batch-C P'col. (NBC) Batch-D Library Hours Batch-E Library Horus Batch -A	E	P'cog & Phyto. (LPJ)	IP-I (RRT)	PJ (PSL)	P'col. (KPG)
Wednesday	SEM V	IP-I (NBC) Batch-C P'cog & Phyto. (LPJ) Batch-D P'col. (AGT) Batch-E Library Hours Batch-A Library Horus Batch -B	C	Medi. Chem. (MAM)	P'cog & Phyto. (LPJ)	IP-I (RRT)	PJ (PSL)
Thursday	SEM V	IP-I (NBC) Batch-D P'cog & Phyto. (PSL) Batch-E P'col. (AGT) Batch-A Library Hours Batch-B Library Horus Batch -C	E	P'col. (KPG)	Medi. Chem. (MAM)	P'cog & Phyto. (LPJ)	IP-I (RRT)
Friday	SEM V	IP-I (RRT) Batch-E P'cog & Phyto. (PSL) Batch-A P'col. (KPG) Batch-B Library Hours Batch-C Library Horus Batch -D	S	PJ (PSL)	P'col. (KPG)	Medi. Chem. (MAM)	P'cog & Phyto. (LPJ)
Saturday	SEM V		S				

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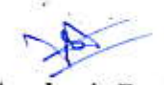
DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE


M.PHARM SEM II 2022-23

With effective from 03/04/2023

DAY	CLASS	10.00 AM-11.00 AM	11.00AM - 12.00PM	12.00 PM – 12.10 PM	12.10 PM – 01.10 PM	01.10 PM – 02.10 PM	02.10 PM – 02.30 PM	02.30 PM – 05.30 PM		
MONDAY	P'ceutics	APB (GDM)	CADDS (MPM)	R	Seminar	C&C (CSC)	R	P'ceutics Practical-II (GDM)		
	Q.A.	PMT (PPC)	Seminar		PV (VSA)	ARC (JPA)		Q.A. Practical-II (ADT)		
TUESDAY	P'ceutics	APB (GDM)	CADDS (MPM)	E	Seminar	C&C (CSC)	E	P'ceutics Practical-II (GDM)		
	Q.A.	PMT (PPC)	Seminar		PV (VSA)	H&SM (ADT)		Q.A. Practical-II (ADT)		
WEDNESDAY	P'ceutics	MP (RRT)	Seminar	C	Seminar	APB (GDM)	C	P'ceutics Practical-II (RRT)		
	Q.A.	H&SM (ADT)	Seminar		PV (VSA)	ARC (JPA)		Q.A. Practical-II (JPA)		
THURSDAY	P'ceutics	MP (RRT)	CADDS (MPM)	E	Seminar	C&C (CSC)	E	P'ceutics Practical-II (RRT)		
	Q.A.	ARC (JPA)	Seminar		H&SM (ADT)	PMT (PPC)		Q.A. Practical-II (JPA)		
FRIDAY	P'ceutics	MP (RRT)	APB (GDM)	S	C&C (CSC)	MP (RRT)	S	CADDS (MPM)	Seminar	-
	Q.A.	PMT (PPC)	ARC (JPA)		PV (VSA)	H&SM (ADT)		Seminar	Seminar	-


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DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2022-23 SEMESTER-V

This timetable will be effective from 15/07/2022

DAY	CLASS	10.00 AM-01.00 PM	01.00 PM - 01.30 PM	01.30 PM - 02.30 PM	02.30 PM - 03.30 PM	03.30 PM - 04.30 PM	04.30 PM - 05.30 PM
Monday	SEM V	IP-I (RRT) Batch-A P'cog & Phyto. (LPJ) Batch-B P'col. (KPG) Batch-C Library Hours Batch-D Library Horus Batch -E	R	IP-I (RRT)	PJ (PSL)	P'col. (KPG)	Medi. Chem. (MAM)
Tuesday	SEM V	IP-I (RRT) Batch-B P'cog & Phyto. (LPJ) Batch-C P'col. (NBC) Batch-D Library Hours Batch-E Library Horus Batch -A	E	P'cog & Phyto. (LPJ)	IP-I (RRT)	PJ (PSL)	P'col. (KPG)
Wednesday	SEM V	IP-I (RRT) Batch-C P'cog & Phyto. (LPJ) Batch-D P'col. (NBC) Batch-E Library Hours Batch-A Library Horus Batch -B	C	Medi. Chem. (MAM)	P'cog & Phyto. (LPJ)	IP-I (RRT)	PJ (PSL)
Thursday	SEM V	IP-I (NBC) Batch-D P'cog & Phyto. (PSL) Batch-E P'col. (KPG) Batch-A Library Hours Batch-B Library Horus Batch -C	E	P'col. (KPG)	Medi. Chem. (MAM)	P'cog & Phyto. (LPJ)	IP-I (RRT)
Friday	SEM V	IP-I (NBC) Batch-E P'cog & Phyto. (PSL) Batch-A P'col. (KPG) Batch-B Library Hours Batch-C Library Horus Batch -D	S	PJ (PSL)	P'col. (KPG)	Medi. Chem. (MAM)	P'cog & Phyto. (LPJ)
Saturday	SEM V	-	S	-	-	-	-

RRT- Dr. R. R. Thenge

KPG- Prof. K: P. Gayakwad

LPJ- Prof. L. P. Joge

MAM- Prof. M. A. Mapari (Class Teacher)

PSL- Prof. P.S. Lande

NBC- Prof. N.B. Chopade

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DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2022-23 SEMESTER-VII


This timetable will be effective from 15/07/2022

D A Y	CL A S S	09.30 AM - 10.30AM	10.30 AM - 11.30A M	11.30 AM - 12.30PM	12.30 PM - 01.30P M	01.30 PM - 02.00 PM	02.00 PM -06.00 PM
Monday	SEM VII	IMA (ADT)	IP-II (RRP)	Pharm. Practice (PMP)	NDDS (MPM)	R	IMA -(ADT) Batch-A Practice School Other Batches
Tuesday	SEM VII	NDDS (MPM)	IMA (ADT)	IP-II (RRP)	Pharm. Practic e (PMP)	E	IMA -(PMP) Batch-B Practice School Other Batches
Wednesday	SEM VII	Pharm. Practice (PMP)	NDDS (MPM)	IMA (ADT)	IP-II (RRP)	C	IMA -(PMP) Batch-C Practice School Other Batches
Thursday	SEM VII	IP-II (RRP)	Pharm. Practice (PMP)	NDDS (MPM)	IMA (ADT)	E	IMA -(ADT) Batch-D Practice School Other Batches
Friday	SEM VII	Pharm. Practice (PMP)	NDDS (MPM)	IMA (ADT)	IP-II (SBS)	S	IMA -(ADT) Batch-E Practice School Other Batches
Saturday	SEM VII	-	-	-	-	S	-


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TIMETABLE 2022-23 SEMESTER-I


This timetable will be effective from 27/12/2022

D A Y	CLASS	09.30 AM	10.30 AM	11.30 AM	12.30 PM	01.30 PM	02.00 PM –	03.00 PM –	04.00 PM –	05.00 PM –
		10.30AM	11.30AM	12.30PM	01.30PM	02.00 PM	03.00 PM	04.00 PM	05.00 PM	06.00 PM
Monday	SEM I	P'Ceutics-I (RRP) Batch-(A) HAP-I (MBN) Batch-(B) PIC (PPC) Batch- (C) P'Ana-I (RPG) Batch- (D)				R	PIC (PPC)	P'Ana-I (RPG)	P'Ceuti cs-I (RRP)	Library / Sports
Tuesday	SEM I	Comm.Skill (RPI) Batch-A P'Ceutics-I (RRP) Batch-(B) HAP-I (MBN) Batch-(C) PIC (PPC) Batch- (D)				E	PIC (PPC)	P'Ana-I (RPG)	HAP-I (MBN)	Library / Sports
Wednesday	SEM I	P'Ana-I (KRP) Batch- (A) Comm.Skill (RPI) Batch-B P'Ceutics-I (SAP) Batch-(C) HAP-I (AGT) Batch-(D)				C	P'Ana-I (RPG)	P'Ceuti cs-I (RRP)	HAP-I (MBN)	Library / Sports
Thursday	SEM I	PIC (PSL) Batch- (A) P'Ana-I (KRP) Batch- (B) Comm.Skill (RPI) Batch-C P'Ceutics-I (SAP) Batch-(D)				E	Comm. Skill (RPI)	PIC (PPC)	HAP-I (MBN)	RB (CSC)/ RM (APJ)
Friday	SEM I	HAP-I (AGT) Batch-(A) PIC (PSL) Batch- (B) P'Ana-I (RPG) Batch- (C) Comm.Skill (RPI) Batch-(D)				S	Comm. Skill (RPI)	P'Ceuti cs-I (RRP)	RB (CSC)/ RM (APJ)	Library / Sports
Saturday	SEM I	Test	PIC (PPC) (Tutorial)	P'Ana-I (RPG) (Tutorial)	P'Ceutics -I (RRP) (Tutorial)	S	HAP-I (MBN) (Tutorial)	RB Practical (CSC)		Library / Sports


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DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE


M.PHARM SEM I 2022-23

With effective from 09/01/2022

DAY	CLASS	10.00 AM-11.00 AM	11.00A M-12.00P M	12.00 PM – 01.00 PM	01.00 PM – 01.30 PM	01.30 PM – 02.30 PM	02.30 PM – 03.30 PM	03.30 PM – 04.30 PM	04.30 PM – 05.30 PM
MONDAY	P'ceutics	RA (GDM)	MP (MPM)	DDS (RRT)		P'ceutics Practical-I (SPD)			MPAT (VSA)
	Q.A.	Q.A. Practical-I (VSA)				QCQA (JPA)	PDTT (PPC)	Seminar	MPAT (VSA)
TUESDAY	P'ceutics	RA (GDM)	MP (MPM)	Seminar		P'ceutics Practical-I (SPD)			MPAT (VSA)
	Q.A.	Q.A. Practical-I (AKT)				QMS (ADT)	PDTT (PPC)	Seminar	MPAT (VSA)
WEDNESDAY	P'ceutics	RA (GDM)	Seminar	DDS (RRT)		P'ceutics Practical-I (SPD)			MPAT (VSA)
	Q.A.	Q.A. Practical-I (S)				QMS (ADT)	QCQA (JPA)	Seminar	MPAT (VSA)
THURSDAY	P'ceutics	Seminar	MP (AKT)	DDS (RRT)		P'ceutics Practical-I (SPD)			MPAT (VSA)
	Q.A.	Q.A. Practical-I (AKT)				QMS (ADT)	QCQA (JPA)	PDTT (PPC)	MPAT (VSA)
FRIDAY	P'ceutics	DDS (RRT)	RA (GDM)	MP (MPM)		Seminar	Seminar	Seminar	Seminar
	Q.A.	PDTT (PPC)	QCQA (JPA)	Seminar		QMS (ADT)	Seminar	Seminar	Seminar


Academic Dean
Dr. V.S. Adhao

Academic Dean
Dr. Rajendra Gode College
of Pharmacy, MALKAPUR.


Principal
Dr. P.K. Deshmukh
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana.



DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE

M.PHARM 2021-22

With effective from 03/01/2022

DAY	CLASS	10.30 TO 11.30	11.30 TO 12.30	12.30 TO 01.30	01.30 TO 02.00	02.00 TO 03.00	03.00 TO 04.00	04.00 TO 05.00
MONDAY	P'ceutics	DDS (RRT)	MPAT (VSA)	MP (GDM)	R	P'ceutics Practical-I (SBS)		
	Q.A.	QCQA (JPA)	MPAT (VSA)	PDIT (PPC)		Q.A. Practical-I (VSA)		
TUESDAY	P'ceutics	RA (SBS)	MPAT (VSA)	DDS (RRT)	E	P'ceutics Practical-I (SBS)		
	Q.A.	PDIT (PPC)	MPAT (VSA)	QMS (PVB)		Q.A. Practical-I (VSA)		
WEDNESDAY	P'ceutics	RA (SBS)	MPAT (VSA)	MP (GDM)	C	P'ceutics Practical-I (SBS)		
	Q.A.	QMS (PVB)	MPAT (VSA)	QCQA (JPA)		Q.A. Practical-I (VSA)		
THURSDAY	P'ceutics	RA (SBS)	DDS (RRT)	MP (GDM)	E	P'ceutics Practical-I (SBS)		
	Q.A.	QCQA (JPA)	QMS (PVB)	PDIT (PPC)		Q.A. Practical-I (VSA)		
FRIDAY	P'ceutics	RA (SBS)	MP (GDM)	DDS (RRT)	S	MPAT (VSA)	Seminar	Seminar
	Q.A.	QMS (PVB)	QCQA (JPA)	PDIT (PPC)		MPAT (VSA)	Seminar	Seminar

[Signature]
PRINCIPAL



DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR


TIMETABLE

M.PHARM SEM II 2021-22

With effective from 25/04/2022

DAY	CLASS	10.00 AM-11.00 AM	11.00AM - 12.00PM	12.00 PM - 12.10 PM	12.10 PM - 01.10 PM	01.10 PM - 02.10 PM	02.10 PM - 02.30 PM	02.30 PM - 05.30 PM		
MONDAY	P'ceutics	APB (GDM)	CADDS (MPM)	R	Seminar	C&C (SBS)	R	P'ceutics Practical-II (SBS)		
	Q.A.	PMT (PPC)	PV (VSA)		Seminar	ARC (JPA)		Q.A. Practical-II (VSA)		
TUESDAY	P'ceutics	APB (GDM)	CADDS (MPM)	E	Seminar	C&C (SBS)	E	P'ceutics Practical-II (SBS)		
	Q.A.	PMT (PPC)	PV (VSA)		Seminar	H&SM (PVB)		Q.A. Practical-II (VSA)		
WEDNESDAY	P'ceutics	MP (RRT)	Seminar	C	Seminar	APB (GDM)	C	P'ceutics Practical-II (SBS)		
	Q.A.	H&SM (PVB)	PV (VSA)		Seminar	ARC (JPA)		Q.A. Practical-II (VSA)		
THURSDAY	P'ceutics	MP (RRT)	CADDS (MPM)	E	Seminar	C&C (SBS)	E	P'ceutics Practical-II (SBS)		
	Q.A.	ARC (JPA)	PV (VSA)		H&SM (PVB)	PMT (PPC)		Q.A. Practical-II (VSA)		
FRIDAY	P'ceutics	MP (RRT)	APB (GDM)	S	C&C (SBS)	MP (RRT)	S	CADDS (MPM)	Seminar	-
	Q.A.	PMT (PPC)	ARC (JPA)		Seminar	H&SM (PVB)		Seminar	Seminar	-

PVB- Dr. P.V. Burakale
 GDM- Dr. G.D. Mehetre
 JPA- Prof. J.P.Ambhore
 MPM- Prof. M.P. More
 RRT- Dr. R. R. Thenge
 SBS- Dr. S. B. Sapkal
 VSA- Dr. V.S. Adhao
 PPC- Dr. P.P.Chinchole


Academic Dean
 Dr. V.S. Adhao

Academic Dean
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 of Pharmacy, MALKAPUR.


Principal

Dr. P.K. Deshmukh
 Principal,
 Dr. Rajendra Gode College
 of Pharmacy, Malkapur
 Dist. Beldang



DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2021-22 ~~SEM~~ SEMESTER - II

This timetable will be effective from 25/04/2022

DAY	CLASS	10.00 AM-11.00 AM	11.00A M-12.00P M	12.00 PM-01.00 PM	01.00 PM-02.00 PM	02.00 PM-02.30 PM	02.30 PM - 05.30 PM
Monday	SEM II	HAP-II (MBN)	POC-I (VMS)	Biochem (PPC)	Patho (MBN)	R	HAP-II (MBN) Batch-(A) Biochem (PPC) Batch- (B) POC-I (VMS) Batch- (C) CAP () Batch-(D) (2hr)
Tuesday	SEM II	HAP-II (MBN)	Biochem (PPC)	POC-I (VMS)	Patho (MBN)	E	CAP () Batch-(A) (2hr) HAP-II (RRP) Batch-(B) Biochem (PPC) Batch- (C) POC-I (VMS) Batch- (D)
Wednesday	SEM II	HAP-II (MBN)	POC-I (VMS)	Biochem (PPC)	Patho (MBN)	C	POC-I (VMS) Batch- (A) CAP () Batch-(B) (2hr) HAP-II (RRP) Batch-(C) Biochem (PPC) Batch- (D)
Thursday	SEM II	Biochem (PPC)	HAP-II (MBN)	POC-I (VMS)	EVS (RRP)	E	Biochem (PPC) Batch- (A) POC-I (VMS) Batch- (B) CAP () Batch-(C) (2hr) HAP-II (RRP) Batch-(D)
Friday	SEM II	CAP ()	Patho (MBN)	EVS (RRP)	CAP ()	S	

MBN- Prof. M.B. Narkhede

PPC- Dr. P.P. Chinchole (Class Teacher)

RRP- Prof. R. R. Popat

VMS- Prof. V.M. Shejol

(Signature)
Academic Dean

Dr. V.S. Adhao

Academic Dean

Dr. Rajendra Gode College
of Pharmacy, MALKAPUR.

(Signature)
Principal

Dr. P.K. Deshmukh

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana



DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2021-22 SEMESTER-IV

This timetable will be effective from 11/03/2022

D A Y	CLASS	10.00 AM - 01.00 PM	01.00 PM - 01.30 PM	01.30 PM - 02.30 PM	02.30 PM - 03.30 PM	03.30 PM - 04.30 PM	PM - 05.30 PM
Monday	SEM IV	P.P.-II (MWB) Batch-A Medi.Chem-I (JPA) Batch-B P'col-I (RRT) Batch-C P'cog&Phyto (PMP) Batch-D	R	P.P.-II (MWB)	Medi. Chem-I (MAM)	P'cog& Phyto (PMP)	P'col-I (KPG)
Tuesday	SEM IV	P.P.-I (MWB) Batch-B Medi.Chem-I (JPA) Batch-C P'col-I (RRT) Batch-D P'cog&Phyto (PMP) Batch-A	E	P'cog& Phyto (PMP)	P.P.-II (MWB)	POC- III (MAM)	P'col-I (KPG)
Wednesday	SEM IV	P.P.-I (MWB) Batch-C Medi.Chem-I (MAM) Batch-D P'col-I (GDM)Batch-A P'cog&Phyto (PMP) Batch-B	C	POC- III (MAM)	P'cog& Phyto (PMP)	P.P.-II (MWB)	Medi. Chem-I (MAM)
Thursday	SEM IV	P.P.-I (MWB) Batch-D Medi.Chem-I (MAM) Batch-A P'col-I (GDM) Batch-B P'cog&Phyto (PMP) Batch-C	E	Medi. Chem-I (MAM)	P'cog& Phyto (PMP)	POC- III (MAM)	P'col-I (KPG)
Friday	SEM IV	-	S	Medi. Chem-I (MAM)	P.P.-II (MWB)	P'col-I (KPG)	POC- III (MAM)
Saturday	SEM IV	-	S	-	-	-	-

MWB- Prof. M.W. Babhulkar (Class Teacher)

GDM- Dr. G. D. Mehetre


RRT- Dr. R.R. Thenge

MAM- Prof. M. A. Mapari

JPA- Prof. J.P. Ambhore

KPG-Prof. K.P. Gaykwad

PMP- Prof. P.M. Padole


Academic Dean

Dr. V.S. Adhao

Academic Dean

*Dr. Rajendra Gode College
of Pharmacy, MALKAPUR.*


Principal

Dr. P.K. Deshmukh

Principal,

*Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldana.*



DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2021-22 SEMESTER-VI

This timetable will be effective from 11/03/2022

DAY	CLASS	10.00 AM-11.00 AM	11.00 AM-12.00 PM	12.00 AM-01.00 PM	01.00 PM-01.30 PM	01.30 PM-02.30 PM	02.30 PM-03.30 PM	03.30 PM-04.30 PM	04.30 PM-05.30 PM
Monday	SEM VI	Medi. Chem.-III (PVB) Batch-A P'col-III (KPG) Batch-B HDT (LPJ) Batch-C			R	Pharm Biotech (MPM)	Bio-Pharm (GDM)	Medi. Chem.-III (PVB)	Quality Assura. (JPA)
Tuesday	SEM VI	Medi. Chem.-III (PVB) Batch-B P'col-III (PSR) Batch-C HDT (LPJ) Batch-D			E	Pharm Biotech (MPM)	P'col-III (KPG)	Bio-Pharm (GDM)	Medi. Chem.-III (PVB)
Wednesday	SEM VI	Medi. Chem.-III (MPM) Batch-C P'col-III (KPG) Batch-D HDT (LPJ) Batch-A			C	HDT (LPJ)	P'col-III (KPG)	Quality Assura. (JPA)	Medi. Chem.-III (PVB)
Thursday	SEM VI	Medi. Chem.-III (MPM) Batch-D P'col-III (KPG) Batch-A HDT (LPJ) Batch-B			E	P'col-III (KPG)	HDT (LPJ)	Bio-Pharm (GDM)	Quality Assura. (JPA)
Friday	SEM VI	HDT (LPJ)	Medi. Chem.-III (PVB)	P'col-III (KPG)	S	Quality Assura. (JPA)	HDT (LPJ)	Bio-Pharm (GDM)	Pharm Biotech (MPM)
Saturday	SEM VI	-			S	Pharm Biotech (MPM)	-	-	-

PVB- Dr. P.V. Burakale

GDM- Dr. G.D. Mehetre (Class Teacher) Academic Dean

JPA- Prof. J.P. Ambhore

MPM- Prof. M.P. More

KPG- Prof. K. P. Gayakwad

LPJ- Prof. L. P. Joge

PSR- Prof. P.S. Rindhe

Dr. V.S. Adhao

Academic Dean

**Dr. Rajendra Gode College
of Pharmacy, MALKAPUR.**

Principal

Dr. P.K. Deshmukh

Principal,

**Dr. Rajendra Gode College
of Pharmacy, Malkapur.
Dist. Buldana.**



DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2021-22 SEMESTER-VIII

This timetable will be effective from 11/03/2022

DAY	CLAS S	10.00 AM- 11.00 AM	11.00A M- 12.00P M	12.00 PM – 01.00 PM	01.00 PM – 02.00 PM	02.00 PM – 02.30 PM	02.30 PM – 05.30 PM
Monday	SEM VIII	PV (MDB)	Social & Prev. Pharm. (SBS)	Biostat & RM (PKD)	Exp. P'col (PSR)	R	Project Work
		PMM (RRP)			Cosm. Sci. (RRT)		
Tuesday	SEM VIII	PV (MDB)	Social & Prev. Pharm. (SBS)	Biostat & RM (PKD)	Exp. P'col (PSR)	E	Project Work
		PMM (RRP)			Cosm. Sci. (RRT)		
Wednesday	SEM VIII	PV (MDB)	Social & Prev. Pharm. (SBS)	Biostat & RM (PKD)	Exp. P'col (PSR)	C	Project Work
		PMM (RRP)			Cosm. Sci. (RRT)		
Thursday	SEM VIII	PV (MDB)	Social & Prev. Pharm. (SBS)	Biostat & RM (PKD)	Exp. P'col (PSR)	E	Project Work
		PMM (RRP)			Cosm. Sci. (RRT)		
Friday	SEM VIII	Library Hours	Test	Library Hours	Test	S	

PKD- Dr. P.K. Deshmukh


RRT- Dr. R. R. Thenge (Class Teacher) Academic Dean

SBS- Dr. S.B. Sapkal


RRP- Prof. R.R. Popat

PSR- Prof. P.S. Rindhe

MDB-Prof.M.D. Bhagat


Dr. V.S. Adhao

Academic Dean
Dr. Rajendra Gode College
of Pharmacy, MALKAPUR.


Principal

Dr. P.K. Deshmukh
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldana.



DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

TIMETABLE 2021-22 ODD SEMESTER

This timetable will be effective from 25/04/2022


D A Y	CLAS S	10.00 AM- 11.00 AM	11.00A M- 12.00P M	12.00 PM – 01.00 PM	01.00 PM – 02.00 PM	02.00 PM – 02.30 PM	02.30 PM – 05.30 PM
Monday	SEM I	HAP-II (MBN)	POC-I (VMS)	Bioche m (PPC)	Patho (MBN)	R	HAP-II (MBN) Batch-(A) Biochem (PPC) Batch- (B) POC-I (VMS) Batch- (C) CAP () Batch-(D) (2hr)
Tuesday	SEM I	HAP-II (MBN)	Bioche m (PPC)	POC-I (VMS)	Patho (MBN)	E	CAP () Batch-(A) (2hr) HAP-II (RRP) Batch-(B) Biochem (PPC) Batch- (C) POC-I (VMS) Batch- (D)
Wednesday	SEM I	HAP-II (MBN)	POC-I (VMS)	Bioche m (PPC)	Patho (MBN)	C	POC-I (VMS) Batch- (A) CAP () Batch-(B) (2hr) HAP-II (RRP) Batch-(C) Biochem (PPC) Batch- (D)
Thursday	SEM I	Bioche m (PPC)	HAP- II (MBN)	POC-I (VMS)	EVS (RRP)	E	Biochem (PPC) Batch- (A) POC-I (VMS) Batch- (B) CAP () Batch-(C) (2hr) HAP-II (RRP) Batch-(D)
Friday	SEM I	CAP ()	Patho (MBN)	EVS (RRP)	CAP ()	S	

MBN- Prof. M.B. Narkhede

PPC- Dr. P.P. Chinchole (Class Teacher)

RRP- Prof. R. R. Popat


VMS- Prof. V.M. Shejol


Academic Dean

Dr. V.S. Adhao

Academic Dean

Dr. Rajendra Gode College
of Pharmacy, MALKAPUR


Principal

Dr. P.K. Deshmukh
Principal,

Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana



Bureau for Health and Education Status Upliftment

Constitutionally Entitled as Health-Education, Bureau)

55/20, Rajat Path, Mansarovar, Jaipur

Rajasthan, Pin : 302020

Contact : Basic : 0141-2783681, (M) 9636348191, 7976447983

Mail : support@heb-nic.in, serviceheb@gmail.com

Website : www.heb-nic.in



Date : 25/05/2023

Ref. No. : BHESU/Ex Pharm/2023/3699

To,
The Principal/Director
I.B.S.S's Dr.Rajendra Gode College Of Pharmacy, Buldana Road, Malkapur. Dist. Buldana 443101
Maharashtra

Subject : To subscribe / renew the latest version of "Ex Pharm" Software.

Respected Sir/Ma'am,

Greetings from Bureau for Health & Education Status Upliftment,

Objective of bureau is to bring innovative & affordable education and health products, so as to make education and health in reach of every Indian.

We extend our thanks for your continuous support for Ex Pharm Software from many years, as you know that **Ex Pharm Software** is PCI Recommended Pharmacology Experiments Simulation Software – (Document Enclosed– Annexure 1)

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Director, Digital Service Division

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- PCI Guidelines
- Latest List of experiments available in software
- Subscription form with latest packages and pricing details.



"Save Animals – Save Earth"



PHARMACY COUNCIL OF INDIA

(Constituted under the Pharmacy Act, 1948)

E-MAIL : registrar@pci.nic.in
WEBSITE : www.pci.nic.in
Telephone : 011-61299901
011-61299982
011-61299903

NBCC Centre, 3rd Floor,
Plot No.2, Community Centre
Maa Anandamai Marg
Okhla Phase I
NEW DELHI - 110 020

Ref. No.14-55/2021-PCI(A)

3642-45

23 SEP 2021

To

- All institutions approved for D.Pharm Course.
- All State Governments (Technical Education and Health Departments) and admission making authorities.
- All Examining Authorities.

Sub: "Syllabus framed under Regulation 7, List of prescribed equipments and apparatus under Appendix-A of The Education Regulations, 2020 for Diploma Course in Pharmacy."

Sir/Madam

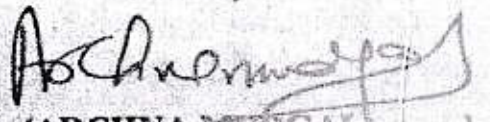
With reference to the subject cited above, it is informed that -

- With due approval of the Ministry of Health and Family Welfare, Government of India, PCI has notified the Education Regulations, 2020 for Diploma course in Pharmacy in the Gazette of India, Extraordinary No. 435, Part-III, Section-4, dt.16.10.2020.
- As empowered under regulation 7 and Appendix-A of ER-20, the PCI has framed the syllabus. A copy of the same titled as under is enclosed as Annexure-I.

"Syllabus framed under Regulation 7, List of prescribed equipments and apparatus under Appendix-A of The Education Regulations, 2020 for Diploma Course in Pharmacy."

- It is for implementation and strict compliance from 2021-2022 academic session.

Yours faithfully


(ARCHANA MUSKAT)
Registrar-cum-Secretary



Course Outcomes: Upon successful completion of this course, the students will be able to

1. Study and report the local anaesthetic, mydriatic and mitotic effects of the given drug on the rabbit eye
2. Choose appropriate animal experiment model to study the effects of the given drugs acting on the central nervous system and submit the report
3. Perform the effects of given tissues (simulated) on isolated organs / tissues and interpret the results
4. Interpret the dose dependent responses of drugs in various animal experiment models

Practicals

Introduction to the following topics pertaining to the experimental pharmacology have to be discussed and documented in the practical manuals.

1. Introduction to experimental pharmacology
2. Study of laboratory animals
(a) Mice; (b) Rats; (c) Guinea pigs; (d) Rabbits
3. Commonly used instruments in experimental pharmacology
4. Different routes of administration of drugs in animals
5. Types of pre-clinical experiments: In-Vivo, In-Vitro, Ex-Vivo, etc.
6. Techniques of blood collection from animals

Experiments

Note: Animals shall not be used for doing / demonstrating any of the experiments given. The given experiments shall be carried-out / demonstrated as the case may be, ONLY with the use of software program(s) such as 'Ex Pharm' or any other suitable software

1. Study of local anaesthetics on rabbit eye
2. Study of Mydriatic effect on rabbit eye
3. Study of Miotic effect on rabbit eye
4. Effect of analgesics using Analgesiometer
5. Study of analgesic activity by writhing test
6. Screening of anti-convulsant using Electro Convulsiometer
7. Screening of Muscle relaxants using Rota-Rod apparatus
8. Screening of CNS stimulants and depressants using Actophotometer
9. Study of anxiolytic activity using elevated plus maze method
10. Study of effect of drugs (any 2) on isolated heart
11. Effect of drugs on ciliary motility on frog's buccal cavity
12. Pyrogen testing by rabbit method



Ex Pharm - Software

Trade Mark Registration Number - 2967042

List of Experiments

01. Experiment on effects of various drugs (Mydriatic, Miotic and Local Anaesthetic) on rabbit's eye.
 - Epinephrine
 - Atropine
 - Ephedrine
 - Physostigmine
 - Lignocaine
02. Study of Analgesic activity with the help of "Tail Flick Apparatus" (Analgesiometer).
03. Study of Analgesic activity with the help of "Hot Plate Apparatus" (Analgesiometer).
04. To study analgesic activity by writhing test.
05. Study of Antihistaminic drugs/Anti allergic drugs by mast cell stabilization method with help of "Histamine Chamber"
06. Study of Muscle Relaxant activity with the help of "Rota-Rod Apparatus".
07. Study of CNS Depressants & Stimulants Using "Astrophotometer".
08. Study of Drugs acting on CNS (Including Anxiolytic Activity) using following modules
 - Elevated Plus Maze Method
 - Pole Climbing Method
09. Study of anticonvulsant activity using "Electro Convulsiometer".
10. To study PTZ induced convulsions in mice
11. Study of effect of hepatic microsomal enzyme inducers on the phenobarbitone sleeping time in mice.
12. To study the action of strychnine/ anaesthetic on frog neurons (excitability).
13. Test for pyroxenes using rabbits.
14. Study of stereotype and anti-catatonic activity of drugs on mice.
15. Effect of drugs on isolated guinea pig ileum (in-vitro).
16. Experiments on thyroid and ant thyroid drugs
 - The effect of thyroxin, TSH, propylthiouracil, on metabolism.
17. Experiments on blood sugar
 - The effect of insulin (hypoglycaemic activity) and allowance on blood glucose.
18. Study of anti-inflammatory activity using carrageenan induced paw oedema method
19. Study of diuretic activity using metabolic cage
20. Experiment on Effect of various drugs on Isolated Frog's Heart. (DRC- Dose Response Curve)



- Epinephrine
- Norepinephrine
- Isoprenaline
- Calcium Chloride
- Propranolol
- Acetylcholine
- Potassium chloride
- Atropine sulphate

21. Experiments on effect of different drugs on dog BP & heart rate.
 1. Virtual Practice- Effects of drugs on the dog BP and Heart Rate.
 2. Effects of Vasopressor and Vasodepressor with appropriate blockers.
 - a. Virtual Practice- Reversal action of adrenaline on blood pressure and heart rate.
 - b. Virtual Practice- Reversal action of acetylcholine on blood pressure and heart rate.
22. Experiment on Bioassay of Histamine on the Ileum of Guinea Pig.
23. Bioassay of Acetylcholine on the isolated rectus abdominis muscle of frog
 - (a) By Matching Method, (b) By Interpolation Method, (c) By 3 Point Method, (d) By 4 Point Method.
24. Bioassay of oxytocin on the isolated rat uterine horn by following methods
 - (a) By Matching Method, (b) By Interpolation Method, (c) By 3 Point Method, (d) By 4 Point Method.
25. Bioassay of serotonin on the isolated rat fundus strip by following methods
 - (a) By Matching Method, (b) By Interpolation Method, (c) By 3 Point Method, (d) By 4 Point Method.
26. To record the DRC and to determine the PD₂ value for acetylcholine on frog rectus abdominis muscle.
27. Study of anti-ulcer activity - using pylorus ligation method.
28. Evaluation of effect of different drugs on ciliary motility.
29. Evaluation of effect of saline purgatives on frog intestine
30. Determination of acute irritation of a test substance.
 - Skin irritation (Including enema formation)
 - Eye irritation
31. Evaluation of effect of acetylcholine (spasmogens) using rabbit jejunum.
32. Evaluation of effect of different drugs on ciliary motility.
33. Evaluation of effect of saline purgatives on frog intestine.
34. Determination of acute irritation of a test substance.
 - Skin irritation (Including enema formation) - Eye irritation.

* Examination mode will also be provided for modules.

* With the above mentioned list of Interactive Software Experiments, Modules will also be provided for following

 - Study of different routes of drugs administration in mice/rats.
 - Common Laboratory Techniques of blood withdrawal, anaesthesia and euthanasia





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Bureau For Health And Education Status Upliftment
(Constitutionally Entitled As Health-Education, Bureau)

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Journal of Hospital Pharmacy	1 Year	2,970 ₹ (Print + Online)	GST-NA	<input type="checkbox"/>	Software- EWL -Software for English Language Lab	1 Year	7790 ₹ (Regular Pack)	9192 ₹	<input type="checkbox"/>
		1,900 ₹ (Online)	GST-NA	<input type="checkbox"/>			14700 ₹ (Advance Pack)	17346 ₹	<input type="checkbox"/>
	3 Years	7,900 ₹ (Print + Online)	GST-NA	<input type="checkbox"/>		3 Year	19800 ₹ (Regular Pack)	23364 ₹	<input type="checkbox"/>
		4,690 ₹ (Online)	GST-NA	<input type="checkbox"/>			36900 ₹ (Advance Pack)	43542 ₹	<input type="checkbox"/>
Ex Pharm Software (All experimental pharmacology modules of B.Pharm + D.Pharm syllabus as per PCI)	1 Year (For all active Experimental modules)	4,150 ₹	4,897 ₹	<input type="checkbox"/>	Ex Pharm Software (All experimental pharmacology modules of syllabus as per PCI+NMC+VCI)	1 Year (For all active Experimental modules)	9,920 ₹	11,705 ₹	<input type="checkbox"/>
	5 Years (For all active Experimental modules)	16,200 ₹	19,116 ₹	<input type="checkbox"/>		3 Years (For all active Experimental modules)	25,040 ₹	29,547 ₹	<input type="checkbox"/>
Pharma-Inven Retail & Hospital Pharmacy Management Software (Including Inventory Management)	1 Year (Regular Pack)	4050 ₹	4779 ₹	<input type="checkbox"/>	Digi-Frog Software	1 Year (Regular Pack) (For Ten dissection modules)	4,250 ₹	5015 ₹	<input type="checkbox"/>
	3 Years (Regular Pack)	11720 ₹	13830 ₹	<input type="checkbox"/>		3 Year (Regular Pack) (For Ten dissection modules)	9,790 ₹	11552 ₹	<input type="checkbox"/>

*Prices includes delivery and maintenance cost also.
*Customized Packages (For desired duration/modules) are also available for all Journals/Softwares.

I/We Hereby Enclose the Demand Draft/Cheque/NEFT/RTGS Transaction No. of Rupees

Dated Bank & Branch Name in favor of "Health Education Bureau". Payable a Jaipur.

Details of Organization/Institution/Individual	ACCOUNT DETAILS
Name of Organization/Institution/Individual	Name of A/C: Health Education Bureau
Mob. No. Email.....	Name of the Bank: UCO Bank
Subscription Year	Account Number: 20960210003121
Address	IFSC code: UCRA0002096
Dist..... State..... Pin Code.....	MICR Code: 302028023
	Bank Branch Name & Code: Mansarovar, Jaipur
	Branch Code: 002096
	District & State: Jaipur, Rajasthan

PLEASE SEND US THE FILLED FORM WITH REQUISITE FEES AT FOLLOWING ADDRESS

ADDRESS
HEALTH EDUCATION BUREAU

55/20, Rajat Path, Mansarovar, Jaipur, Rajasthan, India. Pin: 302020
Contact: 0141-278368 (47970442983, 69630348191)
E-Mail: support@hep-nmc.in, serviceheb@gmail.com
Website: www.heb-nmc.in



Bureau for Health and Education Status Upliftment

(Constitutionally Entitled as Health-Education, Bureau)

55/20, Rajat Path, Mansarovar, Jaipur

Rajasthan, Pin : 302020

Contact : Basic : 0141-2783681, (M) 9636348191, 7976447983

Mail : support@heb-nic.in, serviceheb@gmail.com

Website : www.heb-nic.in



Date: 03/04/2023

Ref. No: EP/3012/05/28/03

To,
The Principal
Dr. Rajendra Gode College of Pharmacy,
Buldana Road, Malkapur, Dist. Buldana 443101 (Maharashtra).

Subject: License for subscription

Dear Sir/Madam,

In response to subscription request & subscription amount received from you, we hereby confirm the subscription of Ex Pharm - Series Software for your institution from Apr-2023 to Mar-2028 (5 Year).

We are hereby sending you the dedicated password of Ex Pharm - Series Software and the invoice (attached with letter).

To use Ex Pharm - Series Software, please enter the password in below mentioned link

Link: <https://heb-nic.in/Ex-Pharm/login.php>

User ID: drgcop

Password: drgcop04

You will be receiving further communications time to time also.

Thanking you

Director,
Digital Service Division

Enclosed:

- ❖ The Invoice
- ❖ User Manual



HEALTH EDUCATION BUREAU
(Bringing Innovations in Health & Learning)
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

INVOICE

PAN NO: AJAPA7570J		GST Reg. No: 08AJAPA7570J1Z8		INVOICE NO: EP/3012/2023			
				DATE: 03/04/2023			
The Principal Dr. Rajendra Gode College of Pharmacy, Buldana Road, Malkapur, Dist. Buldana 443101 (Maharashtra).			FORM: A	PRODUCT CODE: HP-JEN	SUB PRODUCT CODE: ONLINE	BOOKING EXECUTIVE CODE: MHMAK	
CLIENT LOCATION: Malkapur							
SR. NO	DESCRIPTION	SUBSCRIPTION		UNITE PRICE	DISCOUNT	NET PRICE (INCLUSIVE ALL TAXES)	CATEGORY
		FROM	TO				
1	Ex Pharm - Series Software	Apr-23	Mar-28	16,200 ₹	1620 ₹	17,205 ₹	INSTITUTION
AMOUNT IN WORDS: Seventeen Thousand Two Hundred Five Rupees Only							

PAYMENT RECEIVED					BALANCE TO COLLECT				
MODE	AMOUNT	TRANS. NO.	DATE	BANK	MODE	AMOUNT	TRANS. NO.	DATE	BANK
D.D./CHEQUE					D.D./CHEQUE				
NEFT/RTGS					NEFT/RTGS				
ANY OTHER	17,205 ₹	--	--	--	ANY OTHER				
PAYMENT RECEIVED: Seventeen Thousand Two Hundred Five Rupees Only					BALANCE TO COLLECT:				

FOR HEALTH EDUCATION BUREAU

Account details for NEFT/RTGS

Name of A/C Holder: Health Education Bureau
Name of the Bank: UCO Bank
Account Number: 20960210003121
IFSC code: UCBA0002096
MICR Code: 302028023
Bank Branch Name & Code: Mansarovar, Jaipur Branch . Code: 002096
District & State: Jaipur, Rajasthan

AUTHORISED SIGNATORY

DATE: 03/04/2023



Endorsement by Principal

This is to certify that this practice school report is compilation of worked assigned to Miss. Anchal Ganesh Patel in the domain specialization **Pharmaceutical Chemistry And Quality Assurance** Odd Semester (SEM VII) to pursue detailed practical understanding of subject. As per SGBAU Amravati, Miss. Anchal Ganesh Patel carried out practical work during odd semester and completed 150 hrs of training in the specialized domain **Pharmaceutical Chemistry And Quality Assurance** Under guidance of **Dr. Pavan P. Chinchole**. The candidate has completed practice school work at department of Quality Assurance Dr. RajendraGode College of Pharmacy, Malkapur for the partial fulfillment of award of Bachelor of Pharmacy in the Faculty of Science and Technology (Pharmaceutical Sciences) of Sant Gadge Baba Amravati University, Amravati.

Date: 16/12/22
Place: Malkapur



Prof. (Dr.) Prashant K. Deshmukh
(Principal)

Dr. Rajendra Gode College of Pharmacy, Malkapur

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur



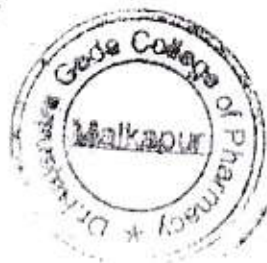


Endorsement by Principal

This is to certify that research project report is compilation of research work assigned to Miss. Nilima Navalchand Jadhav in the domain specialization Quality control & Assurance for Even Semester (SEM VIII) to pursue research dissertation in the field of pharmaceutical sciences. As per SGBAU Amravati, Miss. Nilima Navalchand Jadhav carried out research project work entitled "Drug Likeness Study of Pyrazole Derivative From The Novel Research Article" Under guidance of Prof. P. P. Chinchole The candidate has completed research work at department of Quality control & Assurance, Dr. Rajendra Gode College of Pharmacy, Malkapur for the partial fulfillment of award of Bachelor of Pharmacy in the Faculty of Science and Technology (Pharmaceutical Sciences) of SantGadge Baba Amaravati University, Amaravati.

Date: 25/04/2023

Place: Malkapur



Prof. (Dr.) Prashant K. Deshmukh
Principal

Dr. Rajendra Gode College of Pharmacy, Malkapur

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur



Dr. P. K. Deshmukh

Principal,

Dr. Rajendra Gode College of Pharmacy,


Malkapur,

CERTIFICATE

This is to certify that project report on Current Pharmaceutical Development entitled "*Pharma Marketing & Sales – Product Survey of Metformin at Malkapur*" is purely a field work. This compilation field work was carried out and submitted at Dr. Rajendra Gode College of Pharmacy, Malkapur by Miss. Arwa Raj, Miss. Heena Shaikh, Miss. Renu Aware for the award of Degree of Pharmacy in the faculty of medicine (Pharmaceutical Sciences) of Sant Gadge Baba Amaravati University, Amravati, under the guidance of Prof. Mukesh W. Babhulkar. This project report is now ready for Submission and Evaluation.

Date : 26/05/22

Place : Malkapur


Dr. P. K. Deshmukh

Principal

Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldhana.






Endorsement by Principal

This is to certify that Product Survey report is compilation of Survey work assigned to Mr. Rahul V. Nihalani, Mr. Mayur A. Chugwani, Miss. Pooja G. Dhote in the domain specialization Pharmaceutics for Even Semester (SEM VIII) to pursue Survey work in the field of pharmaceutical sciences. As per SGBAU Amravati, Mr. Rahul V. Nihalani, Mr. Mayur A. Chugwani, Miss. Pooja G. Dhote carried out research project work entitled "Pharma Marketing & Sales - Product Survey of Telmisartan At Malkapur" Under guidance of Prof. M. W. Babhulkar. The candidate has completed Product Survey report at department of Pharmaceutics, Dr. Rajendra Gode College of Pharmacy, Malkapur for the partial fulfillment of award of Bachelor of Pharmacy in the Faculty of Science and Technology (Pharmaceutical Sciences) of Sant Gadge Baba Amaravati University, Amaravati.

Date: 20/04/2023

Place: Malkapur


Prof. (Dr.) Prashant K. Deshmukh
Principal

Dr. Rajendra Gode College of Pharmacy, Malkapur
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldhana.






Endorsement by Principal

This is to certify that Product Survey report is compilation of Survey work assigned to Mr. Dipanshu C. Madhani, Mr. Raj D. Gidhwani in the domain specialization **Pharmaceutics** for Even Semester (SEM VIII) to pursue Survey work in the field of pharmaceutical sciences. As per SGBAU Amravati, Mr. Dipanshu C. Madhani, Mr. Raj D. Gidhwani carried out survey project work entitled "Pharma Marketing & Sales – Product Survey of Cetrizine At Malkapur" Under guidance of Prof. M. W. Babhulkar. The candidate has completed Product Survey report at department of Pharmaceutics, Dr. Rajendra Gode College of Pharmacy, Malkapur for the partial fulfillment of award of Bachelor of Pharmacy in the Faculty of Science and Technology (Pharmaceutical Sciences) of Sant Gadge Baba Amravati University Amravati.

Date: 20/04/23

Place: Malkapur


Prof. (Dr.) Prashant K. Deshmukh
Principal

Dr. Rajendra Gode College of Pharmacy, Malkapur
Principal,

Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldhana.



Indira Bahuuddeshiya Shikshan Sanstha's
DR. RAJENDRA GODE
COLLEGE OF PHARMACY
MALKAPUR, DIST. BULDANA (M.S.)



Certificate

This is to certify that,

Mr./ Miss./ Mrs. Ajay Dnyaneshwar Patil


Seat No. 78842 has carried out the required practical work.

prescribed by Sant Gadge Baba Amravati University, Amravati
for the III Semester of B. Pharm. / M. Pharm.

Course in Pharmaceutical Engineering

during the Academic Year 2022-2023 and this journal
represents his/h~~e~~r work done in the institute under my supervision.

Date : 18/2/2023


Subject In-Charge



Principal

INDEX

Sr. No.	Name of the Experiment	Date	Page No.	Marks	Remarks
1.	To study various operation and unit process used in the pharma engineering	7-9-2022	01	03	Jh
2.	To prepare a crystal of given sample (Copper sulphate, sodium chloride by crystallization method)	14-9-2022	05	03	Jh
3.	To study the effect of surface area on the rate of filtration.	21-9-2022	11	03	Jh
4.	To study the effect of thickness of filter paper on the rate of evaporation	28-9-2022	14	03	Jh
5.	To study the effect of filter aid on the rate of filtration and determine the optimum concentration of filter.	12-10-22	17	03	Jh
6.	To determine the humidity of air using dew point method	19-10-22	20	03	Jh

INDEX

Sr. No.	Name of the Experiment	Date	Page No.	Marks	Remarks
7.	To Study the effect of various factors on the rate of evaporation (surface area and temperature).	16-11-2021	23	03	Jee
8.	To perform of caffeine from Tea powder.	23-11-2021	26	03	Jee
9.	To Study effect of viscosity of rate of evaporation.	7-12-2021	28	03	Jee
10	To determine flow rate of H ₂ O (water) by direct weighing Method.	19-12-2022	31	02	Jee
11	To dry given weight solid and construct the drying curve.	21-12-2021	33	03	Jee
12.	To separate the given powder sample according to size and area determine average particle size and construct frequency sieve size distribution plot.	28-12-2021	36	03	Jee

Indira Bahauddeshiya Shikshan Sanstha's
DR. RAJENDRA GODE
COLLEGE OF PHARMACY
MALKAPUR, DIST. BULDANA (M.S.)



Certificate

This is to certify that,

Mr./ Miss./ Mrs. Abhishek Shahaji Johari

Seat No. has carried out the required practical work.

prescribed by Sant Gadge Baba Amravati University, Amravati
for the IVth Semester of B. Pharm. / M. Pharm.

Course in Pharmacognosy & Phytochemistry - II
during the Academic Year 2022 - 23 and this journal
represents his/her work done in the institute under my supervision.

Date :

Bhande
13-12-2022

Subject In-Charge



Principal,
Principal,



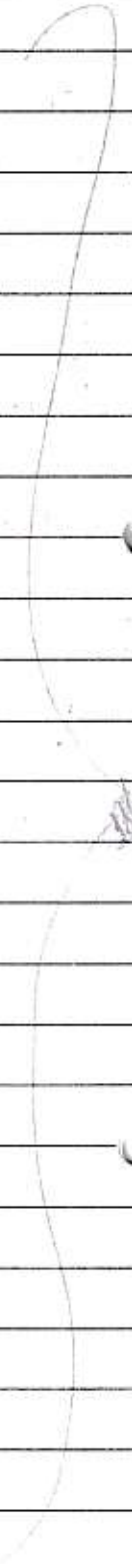
of Pharmacy, Malkapur
Dist. Buldana.

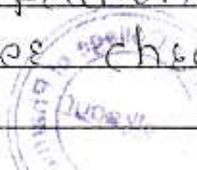
INDEX

Sr. No.	Name of the Experiment	Date	Page No.	Marks	Remarks
1	To study morphological, histological, powdered characteristics & detection of cinchona bark	22/07/22	1	2	
2	To study, morphological histological powdered characteristics, extraction and detection of cinnamon bark.	27/07/22	5	2	
3	To study morphological histological powdered characteristics extraction and detection of senna leaves	05/08/22	9	3	
4	To study morphological histological powder characteristics extraction and detection of clove.	12/08/22	11	AB	
5	To study morphological histological powder characteristics extraction and detection of roseander fruits.	19/08/22	14	2	



INDEX

Ss	Sr. No.	Name of the Experiment	Date	Page No.	Marks	Remarks
	6	To study morphological histological powder characteristics extraction and detection of fennel fruit	26/08/22	18	2.5	
	7	To study morphological histological powder characteristics	23/09/22	21	2.5	
	8	Isolation & detection of caffeine from Tea leaves / Tea dust powder	30/09/22	25	2.5	
	9	To carry out isolation detection of Diosgenin from Dioscorea	07/10/22	29	2.5	
	10	To extract Atropine from belladonna and identify by Thin layer Chromatography	14/10/22	32	2.5	
	11	To extract sennosides from senna leaves and identify by TLC.	21/10/22	35	AB	
	12	To perform separation of sugars by paper chromatography.	11/11/22	38	03	



Total No. of experiments = 15

Total Marks obtained = 32.5

Per

Mean = $\frac{32.5}{15}$

15

= 2.16

(32.5)
(15) Mark

(Course Outcomes)

- 1) To know the morphology, histology, parasites characteristics, extraction and detection of crude drug
- 2) To understand the isolation and characteristics by TIC of phytochemistry
- 3) To understand isolation of volatile oil by hydrodistillation by using Clevenger's apparatus
- 4) To understand identification of crude drug by chemical test




Dr. Rajendra Gode College of Pharmacy, Malkapur
Criterion 2 - Teaching-learning and Evaluation

Proof of Experiential Learning through Industrial Visit	
Name of Activity with Date	Industrial Visit of Chaitanya Biologicals Pvt. Ltd. Malkapur Dated 03/10/2022
Photos of Activity	
Summary of Event	<p>Training and Placement Cell has organized Industrial visit for final year students on dated 03/10/2022 to Chaitanya Biologicals Pvt Ltd. Malkapur. Prof. M. P. More and Prof P. M. Padole has conducted the activity and visited along with students. Total 50 students (25 boys, 25 girls) students have visited the industry and understood about production process. During visit student has studied following section and understand the working of each section. Starting from Raw material section grouped into quarantine, approved materials subsections, Manufacturing section in that reactor section, filtration section and ultrafiltration section followed by spray drying, blending and packaging section. At the end student visited Effluent treatment plant, purified water generation system, finished goods store, quality control section, and quality assurance section. With assistance and communication with plant head, QA executive participated in training and guide students. The drive was concluded with brief introduction of production process and functions of QA section.</p>
Name of Coordinator and team members	Prof. Mahesh More and Prof. P.M. Padole

Dr. Rajendra Gode College of Pharmacy, Malkapur

Activity Report (2022-23)

Name of Activity	Industrial Tour (Quaint Labs, Satara)			
Organizer	Dr. Rajendra Gode College of Pharmacy, Malkapur			
Venue	Quint Labs, Satara	Number of Participants	Students	Teacher
			45	4
Date	25/01/2023	Time: 11:00 am - 2.00 pm		
Objectives of Program	To provide an opportunity to our students to be familiarized with pharma industry, working culture and knowledge of various equipment's used in manufacturing of various dosage forms.			
In-charge	Prof. M. W. Babhulakar, Prof. V. M. Shejol, Prof. J. P. Ambhore			
Brief Report on activity	The Objective To provide an opportunity to our students to be familiarized with pharma industry, working culture and knowledge of various equipment's used in manufacturing of various dosage forms. We planned an industrial visit on 25/01/2023 at Quaint lab, satara, prior communication had with director Mr. Rohit Jadhao after his approval for visit, we arranged a visit for our B. Pharma second year students. During visit at quaint labs students has been demonstrated for working of tablet punching machine, ball mill, mixer, blender and other equipment's avail at quaint lab used for manufacturing of tablet dosage form.			
Photograph				



[Signature]
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur.
Dist. Buldana.

INDIRA BAHUDDSHIYA SHIKSHAN SANSTHA, BULDANA'S

DR. RAJENDRA GODE COLLEGE OF PHARMACY
MALKAPUR

Buldana Road, MALKAPUR – 443101 Dist – Buldana (M.S.)

Mob. 8308827339

E-mail : drgcopmalkapur@gmail.com, Web : www.drgcop.co.in

Recognized by AICTE & PCI, New Delhi ; Affiliated to S.G.B. Amravati University, Amravati & M.S.B.T.E. Mumbai.

Founder President: Late Dr. Rajendraji V. Gode., Ex- Minister, Govt. of Maharashtra.

Shri.Yogendra R.Gode
President

Dr. P. K. Deshmukh
Principal

Ref. No. 3267 DRGCOF-23

Date : 10.01.23.

To,
Mr.Rohit Jadhao
Director, Quaint Labs,
Gate No.1532 Plot No.6,
Degaon, Satara 415004.

Subject: Request for Industrial Visit.

Dear Sir,

We Dr. Rajendra Gode College of Pharmacy, Malkapur, was established in 2007. The institute is affiliated to Sant Gadge Baba Amravati University, Amravati Approved by Pharmacy Council of India, Delhi. The institute is recognized as research Centre by Sant Gadge Baba Amravati University, Amravati and offers D.Pharm, B. Pharm and M. Pharm course. The institute is continuously taking an effort for overall development of students.

With reference to above mentioned subject I kindly request you to provide a permission for industrial visit for Second Year B. Pharm students in your esteemed organization. Number of students is approximately 40. Tentative Date of visit is 25th Jan. 2023.

We will be very thankful if you could provide us permission for the same. So, kindly consider our request.

Thank you.

accepted
Quaint Labs Food Prod
25/01/23



Principal
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana.

3/23, 4:44 PM

Gmail - CamScanner 01-10-2023 17.35.08.pdf

M Gmail

Dr Rajendra Gode College of Pharmacy Malkapur <drgcopmalkapur@gmail.com>


CamScanner 01-10-2023 17.35.08.pdf

2 messages

10 January 2023 at 17:39

Vinayak Shejol <vinayakshejol10@gmail.com>
To: rohit@quaintlabs.com, drgcopmalkapur@gmail.com

Dear sir,
As per our conversation and your instruction regarding our students visit to your industrial unit, find the attached request letter.
Please acknowledge and accept.
Thank you

 CamScanner 01-10-2023 17.35.08.pdf
428K

13 January 2023 at 16:43

Vinayak Shejol <vinayakshejol10@gmail.com>
To: drgcopmalkapur@gmail.com

----- Forwarded message -----

From: Rohit S Jadhav <rohit@quaintlabs.com>
Date: Tue, Jan 10, 2023, 17:54
Subject: Re: CamScanner 01-10-2023 17.35.08.pdf
To: <vinayakshejol10@gmail.com>

Dear Vinayak sir,
We will be happy to have you and your students visit our facility. We are currently engaged in manufacturing of various nutraceutical and sports nutrition supplements.
I hope that the visit will be helpful for your students.
The 25th Jan is okay with us.
If you have any questions please let me know.

Regards,

Rohit Jadhav

Proprietor

QUAINT LABS (an ISO 9001:2015 certified co.)

m: +91 8007607913

a: 6, "Sawali" New Kranti Housing Society

Sambhaji Nagar, Satara, Maharashtra 415004

w: www.quaintlabs.com e: rohit@quaintlabs.com

--- On Tue, 10 Jan 2023 17:39:57 +0530 vinayakshejol10@gmail.com wrote ---

[Quoted text hidden]





INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, BULDANA'S

Dr. RAJENDRA GODE COLLEGE OF PHARMACY MALKAPUR

Buldana Road, MALKAPUR - 443101 Dist - Buldana (M.S.)
Mob. 8308827339

E-mail : drgcopmalkapur@gmail.com, Web : www.drgcop.co.in

Recognized by AICTE & PCI, New Delhi ; Affiliated to S.G.B. Amravati University, Amravati & M.S.B.T.E. Mumbai

Founder President: Late Dr. Rajendraji V. Gode., Ex- Minister, Govt. of Maharashtra.

Shri. Yogendra R. Gode
President

Dr. P. K. Deshmukh
Principal

Ref. No. ३२५४/DRG-COPM/2023

Date : 16.01.23,

प्रति,

मा. उपविभागीय परिवहन अधिकारी साहेब,
पुणे.

विषय : जय अंबे ट्रॅव्हल्स (सिटींग) बसने शैक्षणिक सहल नेण्यास
परवानगी मिळणेबाबत.

महोदय,

वरील विषयान्वये डॉ. राजेंद्र गोडे कॉलेज ऑफ फार्मसी, मलकापूर आमचे महाविद्यालयाचे शैक्षणिक सहल दि. २०.०१.२०२३ सायंकाळ पासून ते २६.०१.२०२३ रात्री पर्यंत (मलकापूर - महाड गणपती - पालीगणपती - कशीदबीच - मुरुड - जंजिरा किल्ला - रायगड किल्ला - प्रतापगड - पाचगणी - वाई - पोलादपुर - महाबळेश्वर - वाई - सातारा इंडस्ट्री व्हिजिट - जेजुरी - मोरगाव) या ठिकाणी जय अंबे ट्रॅव्हल्सने जात आहे. तरी या शैक्षणिक सहलीसाठी यादी प्रमाणे विद्यार्थी व शिक्षक जात असून सहलीची जबाबदारी महाविद्यालय स्विकारत आहे.

तरी आपण आमच्या महाविद्यालयाची जय अंबे ट्रॅव्हल्स च्या बसने शैक्षणिक सहल नेण्यासाठी परवानगी द्यावी, हि नम्र विनंती.

गाडी क्र. MH-12 PV-2649


दि. १६.०१.२०२३

सहपत्र. विद्यार्थी व शिक्षकाची यादी.



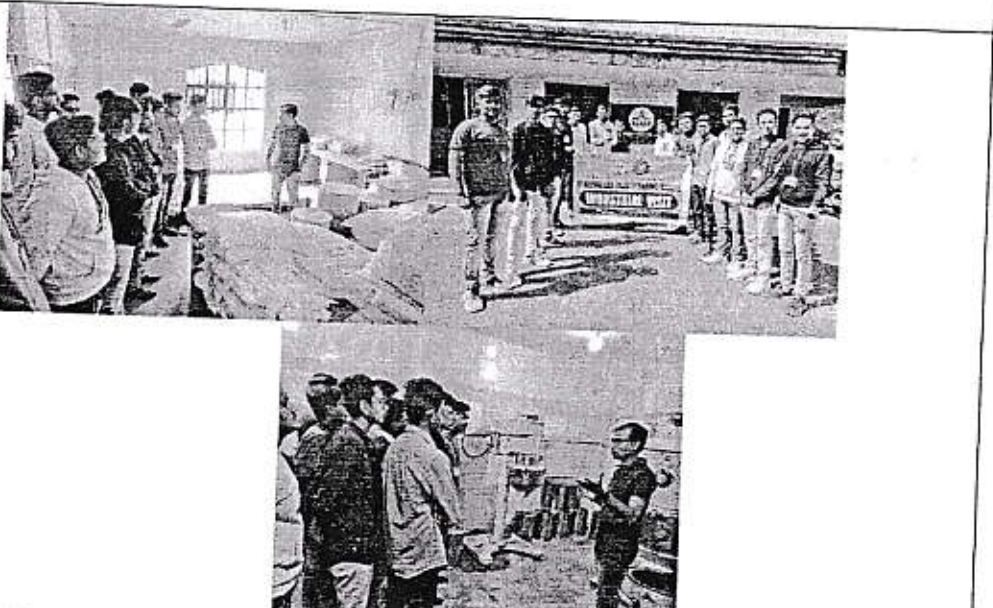
प्रमाणे,
डॉ. राजेंद्र गोडे कॉलेज
फार्मसी मलकापूर

Dr. Rajendra Gode College of Pharmacy, Malkapur
Criterion 2 - Teaching-learning and Evaluation

<p>Name of Activity with Date</p>	<p align="center">Industrial Visit of A-Class Pharmaceutical Pvt. Ltd. Khamgaon Dated 24/12/2022</p>
<p>Photos of Activity</p>	
<p>Summary of Event</p>	<p>Training and Placement Cell has organized Industrial visit for Diploma second year students on dated 24/11/2022 to A-Class Pharmaceutical Pvt. Ltd. Khamgaon. Prof. R.A. Darakhe has conducted the activity and visited along with students. Total 25 students have visited the industry and understood about production process. During visit student has studied following section and understand the working of each section. Starting from Raw material section grouped into quarantine, approved materials subsections, Manufacturing section in that reactor section, filtration section and ultrafiltration section followed by spray drying, blending and packaging section. At the end student visited Effluent treatment plant, purified water generation system, finished goods store, quality control section, and quality assurance section. With assistance and communication with plant head, QA executive delivered the training and guided to students. The drive was concluded with brief introduction of production process and functions of Quality Control and Quality Assurance department.</p>
<p>Name of Coordinator and team members</p>	<p>Prof. R. A. Darakhe</p>

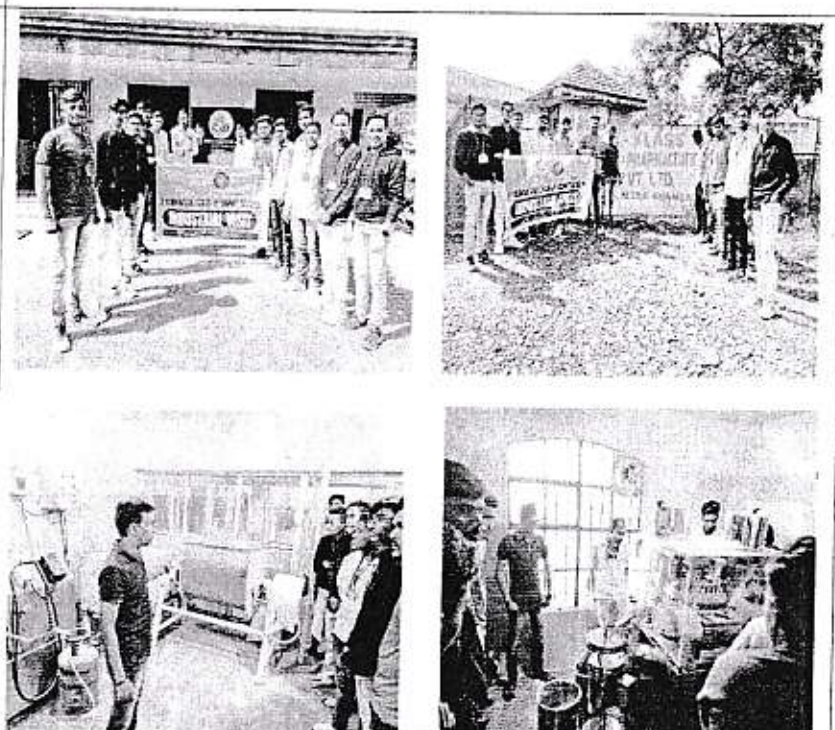
MoUs Activity Report

KLASS Pharmaceuticals Ltd Khamgaon

Name of Activity with Date	Industrial Visit to A - KLASS Pharmaceuticals Ltd. Khamgaon dated 24th November 2022
Photos of Activity	
Summary of Event	<p>Dr. Rajendra Gode College of Pharmacy, Malkapur B. Pharmacy students visited A - KLASS Pharmaceuticals Ltd. Khamgaon on 24th November 2022. A-KLASS Pharmaceuticals Ltd. Khamgaon is a known organization in the region engaged in manufacturing of popular pharmaceutical products. The visit was organised as a part of institute's vision and mission to do continuous efforts to help students grow by way of teaching, experiential learning. Practical approach. Students observed and understood the establishment of a Pharmaceutical manufacturing unit. The officials made them known about the various departments of the company such as Production, Packaging, Quality Control and Quality Assurance etc. This industrial visit activity was organised successfully by efforts of team DRGCOP, Malkapur including Prof. Rahul A. Darakhe under the guidance of Principal Dr. P. K. Deshmukh. Students happily attended the activity and were thankful to A-KLASS Team as well DRGCOP.</p>
Name of Coordinator and team members	Prof. R. A. Darakhe



Activity Report

Name of activity with date	Industrial Visit To A KLASS Pvt. Ltd. Khamgaon 24/11/2022
Photos of activity	
Summary of event	<p>Dr. Rajendra Gode College of Pharmacy, Malkapur has organized industrial visit for D. Pharmacy final year students. They are visited to A - KLASS Pharmaceuticals Pvt. Ltd. Khamgaon on 24 th November 2022. A-KLASS Pharmaceuticals Pvt. Ltd. Khamgaon is a known organization in the region engaged in manufacturing of popular pharmaceutical products. The visit was organized as a part of institute's vision and mission to do continuous efforts to help students grow by way of teaching, experiential learning, Practical approach. Students observed and understood the establishment of a Pharmaceutical manufacturing unit. The officials made them known about the various departments of the company such as Production, Packaging, Quality Control and Quality Assurance etc. With assistance and communication with plant head, QA executive participated in training and guide students.</p> <p>The industrial visit activity was organized successfully by efforts of team DRGCOP, malkapur including prof. R A Darakhe under the guidance of Hon. Shri Yogendraji Gode, (President IBSS Buldana), Principal Dr. Prashant k. Deshmukh and the student were happily attended the activity and thankful to A - KLASS Pharmaceuticals Pvt. Ltd. as well as team DRGCOP, Malkapur</p>
Name of coordinator & team members	Prof. R A Darakhe



[Handwritten signature]



INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, BULDHANA'S

**DR. RAJENDRA GODE COLLEGE OF PHARMACY
MALKAPUR**

Buldana Road, MALKAPUR – 443101 Dist – Buldana (M.S.)

Phone: 8308827339, Fax: (07267) 227338

E-mail: drgcopmalkapur@gmail.com, cop_malkapur@rediffmail.com, Web: www.drgcop.co.in
Recognized by AICTE & PCI, New Delhi and Affiliated to S.G. B. Amravati University, Amravati

Yogendra R. Gode
President

Dr. P. K. Deshmukh
Principal

Ref. DGR COP/2022 – 23

Date 21/11/2022

Student Notice

All students of D. Pharmacy, B. Pharmacy are hereby informed that, Industrial Visit is scheduled on 23 November, 2022 at AKLASS Drugs and Pharmaceuticals Pvt Ltd., Khamgaon. At Students should remain present at 9.00 am in college campus.

Kindly note attendance is mandatory.



P. K. Deshmukh
Principal

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana





INDIRA BAHUDDSHIYA SHIKSHAN SANSTHA, BULDANA'S

**Dr. RAJENDRA GODE COLLEGE OF PHARMACY
MALKAPUR**

Buldana Road, MALKAPUR - 443101 Dist - Buldana (M.S.)

Mob. 8308827339

E-mail : drgcopmalkapur@gmail.com, Web : www.drgcop.co.in

Recognized by AICTE & PCI, New Delhi ; Affiliated to S.G.B. Amravati University, Amravati & M.S.B.T.E. Mumbai.

Founder President: Late Dr. Rajendraji V. Gode., Ex- Minister, Govt. of Maharashtra.

Shri. Yogendra R. Gode
President

Dr. P. K. Deshmukh
Principal

Ref. No. 3234/DRGCOPM/22

Date : 23/11/22

To,
The HR Manager
A- Klass drugs & Pharmaceuticals.
Khamgaon.

Subject: Regarding Permission for Industrial Visit.

Respected Sir,

With reference to the above mentioned subject we here by requesting you to grant us the permission for industrial Visit of D.Pharm Second year students of our institute as part of a curriculum activity, the proposed numbers of Students for industrial visit are 63.

So, kindly consider the same.

Thanking you.

Contact Details:

Prof. R. A. Darakhe: 9922163116

Institute Code: 1658

Institute Name: IBSS, Dr. Rajendra Gode College of Pharmacy, Malkapur.

Institute Email: 1658principal@msbte.com



Received



Principal
23/11/22

|| Shreejee ||

MFG L No : AMD/2
VAT TIN : 27300275263 V
CST TIN : 27300275263 C



A - Klass Drugs and Pharmaceuticals Pvt. Ltd.

D-48, M. I. D. C., KHAMGAON - 444 303 (M.S.) ☎: (07263) 277075

Ref.No.:

Date: 24/11/2022

CERTIFICATE OF ATTENDENCE

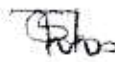
This is to certify that the 60 students of Dr. Rajendra Gode Collage of Pharmacy Malkapur, visited to our plant on 24.11.2022 with prior permission. During this visit they studied about following sections.

1. Raw Material Section
2. Packing Material Section
3. Granulation Section
4. Compression Section
5. Packaging Section
6. Finished goods Store
7. Quality Control Section

During the visit students were sincere and obedient. We wish the best luck for their bright future.

Date: 24.11.2022

Place: Khamgaon.


Signature of
Company Official



Dr. Rajendra Gode college of Pharmacy, Malkapur

Industrial Visit Attendance Report

Name of Industry:- A-Class drugs & Pharmaceuticals

Date of Visit :- 24/11/2022

Sr. No	Candidate Name	Sign
1	CHAUDHARI PALLAVI YOGIRAJ	Chaudhari
2	CHOPADE SAKSHI VIJAY	S.v.chopade
3	DEVIKAR VINAY RAJENDRA	Devikar
4	GAYKI BHUSHAN RAJENDRA	Gayki
5	GOND SHRADDHA SOPAN	Gond
6	INGLE KOMAL RAHUL	Ingle
7	INGLE NEHA YUVRAJ	Ingle
8	INGLE PRATHMESH ARUN	Ingle
9	INGLE PUNYAVARDHAN VINOD	Ingle
10	KAJALE NIKITA SHRIDHAR	Kajale
11	KANOJE MANSI RAJESH	M.R.kanje
12	KATE ASHWINI DEOCHAND	Kate
13	KATE VISHNU BHAGVAT	Kate
14	KHARATE SUPRIYTA GAJANAN	Kharate
15	KSHIRSAGAR POOJA SHANKAR	Kshirsagar
16	MAHAJAN MAYUR VIJAY	M.v.mahajan
17	MANVATKAR NIKITA BHASKAR	N.B.manvatkar
18	MAPARI AKASH NANA	A.N.mapari



19	MHAISANE POOJA KISHOR	P. K. Mhaissane
20	MOHD MUSABBIR MOHD IBRAHIM	Musabbir
21	MUNDALE LAXMI GANESH	L. G. Mundale
22	PATIL DIPALI DILIP	Dipali
23	PATIL SANIKA ISHWAR	Sanika
24	PATURDE BHAGYASHRI GAJANAN	B. G. Paturde
25	RAUT BHAGYASHRI RAMDAS	Raut
26	RAUT YOGITA DNYANESHWAR	Y. D. Raut
27	SAMBARE PALLAVI GOPAL	Sambare
28	SHRINATH MANISHA PRALHAD	Shrinath
29	WAGH AKASH NARAYAN	Wagh.
30	WANKHADE TEJASWINI SANTOS	
31	RAUT PURVA DINESH	P. D. Raut
32	ADNAN KHAN ZAFERULLAH KHAN	Adnan Khan
33	AOCHAR SAKSHI RAMRAO	Sakshi
34	BHALTADAK SHIVRAJ PRAMOD	Shivraj
35	DABERAO VIVEK BALKRISHNA	Daberao
36	KAKAD AKASH KARBHARI	
37	MAPARI SMITA DILIP	Smita
38	MIRGE RUPALI ANANTA	
39	MUSFERA FIRDAUS SADIQUE AHAMAD	
40	MUZAMMIL KHAN AHMAD KHAN	
41	PAWAR VAISHNAVI SANTOSH	
42	RAHUL MUKINDA KAKDE	R. M. Kakde
43	RAJPUT RESHMA CHANDANSINGH	R. C. Rajput
44	RAJPUT SHIVANI VITTHALSING	S. V. Rajput



45	RATHOD PAVAN DEVIDAS	<u>Rathod</u>
46	SATAV PRATIBHA DNYANDEO	<u>P.D.satav</u>
47	SK TAUSEEF SK AZIM	<u>KTauseef</u>
48	TAP AARTI NILESH	<u>Tap</u>
49	BUDUKALE OM SANJAY	<u>Om</u>
50	DHORAN PRASAD SOPAN	<u>Prasad</u>
51	GHADEKAR MANSI SHANKAR	<u>M.S.Ghadekar</u>
52	INGLE YASH SANTOSH	<u>Yash</u>
53	KATHOLE ROSHAN PRADEEP	
54	MAHAJAN YOGESH VINOD	<u>Yogesh</u>
55	PATIL SHUBHAM SAMADHAN	<u>Shubham</u>
56	PATURDE SHUBHAM RAMBHAU	
57	SAHARKAR SHILPA RAJESH	<u>S.R.Saharkar</u>
58	SAKET MURARILAL SHARMA	<u>Saket</u>
59	SAPKAL PRATIK ANIL	<u>P.A.Sapkali</u>
60	SHEIKH MUSKAN YUSUF	<u>Muskan</u>
61	TALE ANIKET GAJANAN	<u>Aniket</u>
62	TIKAR RUSHIKESH CHANDRASHEKHAR	<u>Tikar</u>
63	WAGH VISHAL SANJAY	





CHAITANYA BIOLOGICALS PVT. LTD.

75/2, Malkapur By-Pass, N.H.No.06, Malkapur- 443101
Dist. Buldana (M.S.),India

08/06/2022

To WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Divya Kharode, student of Dr. Rajendra Gode College of Pharmacy, Malkapur has attended seven days industrial in-plant training from 30/05/2022-07/06/2022 in our organization in Manufacturing, Quality control and Quality assurance Department.

During the training, we found her sincere and hard working.

We wish all the very best for her future

For Chaitanya Biologicals Pvt. Ltd.

AK Koth

Authorized Signatory

Manager



Principals

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana.



CHAITANYA BIOLOGICALS PVT. LTD.

75/2, Malkapur By-Pass, N.H.No.06, Malkapur- 443101
Dist. Buldana (M.S.),India

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For Chaitanya Biologicals Pvt. Ltd.

Authorized Signatory

Manager



Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana.



St. Therese Medical
Medical Center and Pharmacy

10 March 2023

TO WHOM SOEVER IT MAY CONCERN

This is to certify that **Mr. Sagar Sanjay Kokate, B. Pharm** student of Rajendra Gode College of Pharmacy, Malkapur. He has undergone in plant training for the period **04 Dec 2022 to 04 March 2023**.

He has completed his training from **RMPM Stores, Packing, and Quality Control Department**.

Her attendance was found to be satisfactory.

We wish his all the best in his future endeavors.

Mr. P. B. Mulavkar
Manager
The Human Resources Department



ADD:-

A-22, M.G. Road, Santacruz (East) Mumbai-400098
India, (91-22)66529888

06th MARCH 2023

TO WHOMSOEVER IT MAY CONCERN

THIS IS TO CERTIFY THAT MS. BHAGYASHRI SHRINIWAS NAPHADE B. Pharm STUDENT OF DR.RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR. SHE HAS UNDERGONE SIX MONTHS IN-PLANT TRAINING IN OUR ORGANIZATION DURING THE PERIOD 06th September 2022 TO 06th March 2023.

DURING THIS PERIOD SHE HAS GIVEN TRAINING IN OUR PRODUCTION, QUALITY CONTROL AND STORE DEPARTMENT. DURING HIS TRAINING THIS IS FOUND THAT SHE IS HONEST, HARDWORKING & SINCERE.

WE WISH BEST LUCK FOR HIS BRIGHT FUTURE.

FOR NeuroCare Pharmaceuticals Ltd.



ANIKET S.
MANAGER - HR



NeuroCare Pharmaceuticals Limited

Works & Admin office : P-110, Ambad - Uttam Nagar Rd, MIDC Area, MIDC Ambad, Nashik, Maharashtra 422010
Phone number : +91-0253-2301264 | Fax number: +91-0253-230265



28th January 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Tushar Namdev Patil, B. Pharm** student of Dr. Rajendra Gode College of Pharmacy, Malkapur, Dist Buldhana, has undergone in plant training for the period **27th November 2021 to 28th January 2022.**

He has completed his training from **RMPM Stores, Packing, and Quality Control Department.**

His attendance was found to be satisfactory.

We wish him all the best in his future endeavors.

For LUPIN LIMITED

ABHAY P. GITE
MANAGER - HR



Lupin Limited

Aurangabad Works : A 28/1, M.I.D.C, Industrial Area, Chikalthane, Aurangabad 431 210. India Tel : (91240) 2485871 – 72. (91-240) 6612444. Fax : (91-240) 2484121

Corporate Office : 159, C.S.T Road, Kalina, Santacruz (East), Mumbai 400 098, India. Tel. : (91-22) 66402222 (BKC)
www.lupinpharma.com



St. Therese Medical
Medical Center and Pharmacy

10 Jan 2022

TO WHOM SOEVER IT MAY CONCERN

This is to certify that **Mr. Sachin Subhashappa Ghodeswar B. Pharm** student of Rajendra Gode College of Pharmacy, Malkapur. She has undergone in plant training for the period **04 Oct. 2021 to 04 Jan. 2022.**

She has completed his training from **RMPM Stores, Packing, and Quality Control Department.**

Her attendance was found to be satisfactory.

We wish his all the best in his future endeavors.

Mr. P. B. Mulavkar
Manager
The Human Resources Department



ADD:-

A-22, M.G. Road, Santacruz (East) Mumbai-400098
India, (91-22)66529888
www.sttmpharma.com

16.05.2022

15 Jan 2022

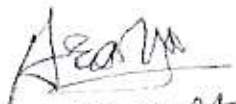
TO WHOM SOEVER IT MAY CONCERN

This is to certify that **Mr. Avinash Sakharam Jadhao, B. Pharm** student of **Rajendra Gode College of Pharmacy, Malkapur** He has undergone in plant training for the period **04 Oct. 2021 to 04 Jan. 2022.**

He has completed his training from **RMPM Stores, Packing, and Quality Control Department.**

His attendance was found to be satisfactory.

We wish his all the best in his future endeavors.


15-01-22

Mr. Arindom Sen
Sr. Manager-Operations



Ipca Laboratories Ltd.



Geotek Global
Certification Pvt. Ltd.
ISO 9001-2015
Certification

BUSINESS EXCELLENCE AWARD 2015 WINNER
PANTOMATH,
BSE & CNBC AWAZ

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Works : Plot No. I-4&L-15, Phase-III, M. I. D. C., AKOLA-444 104 (M.S.) INDIA
Ph. No. : 0091-724-2259401/02/03, Fax : 2258371, Email : info@lebenlab.com
Mumbai Office : 11, Mahavir Mansion, 70, Trinity Street, MUMBAI - 400 002 (M.S.) INDIA
Ph. 0091-22-22075301/02, Fax : 22075303 Email : mumbai@lebenlab.com
CIN : U24230MH1988PTC048316 Web.: www.lebenlab.com

Date: - 30/06/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Mamata Sangitrao Bhagat, student of Dr. Rajendra Gode College of Pharmacy, Malkapur. has completed her one month Industrial in-plant training from 01/06/2022 to 30/06/2022 in our organization in the Raw Materials, Packing Materials, Liquid Oral, External Preparation, Tablet, Capsule, Quality Control, Quality Assurance and Maintenance Departments.

During the training we found her sincere & hard working.

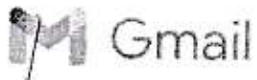
We wish all the very best for her future.

For Leben Laboratories Pvt. Ltd.,


Authorized Signatory

Q.A. Manager





Dr Rajendra Gode College of Pharmacy Malkapur <drgcopmalkapur@gmail.com>

Application for Training Completion certificate

1 message

Sachin Mendhi <sachin24mendhi@gmail.com>
To: "drgcopmalkapur@gmail.com" <drgcopmalkapur@gmail.com>
Cc: "riteshpopat87@gmail.com" <riteshpopat87@gmail.com>

1 July 2022 at 15:34

Dear Sir,


I Sachin Madhukar Mendhi, Passed B Pharmacy From Your Institute in 2009, So now I required a training completion certificate for the issuing of my degree certification process.

So Kindly find the attached Experience Industry certificate.

Kindly issue me a Training completion certificate.

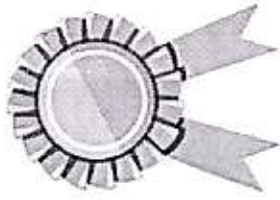
Kind Regards,

Mr. Sachin M Mendhi
Asst. Professor
Dadasaheb Balpande College of Pharmacy,
Besa, Nagpur.

 Experience Letter.pdf
265K

*Issue certificate.
Accepted.
04/07/22*





**Azadi Ka
Amrit Mahotsav**

DR RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

CERTIFICATE

IS PRESENTED TO :

VAISHNAVI LOKHANDE

For being Runner up in the Poster presentation competition held on
the occasion of **"Women's Day"** on 08 March 2022

Gandhi's



**PROF. S. J. GANDHI
COORDINATOR**

Adhao

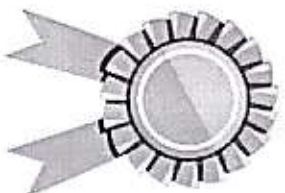
**DR. V. S. ADHAO
IQAC COORDINATOR**

Principle

**Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buidana.**

P. K. Deshmukh

**P. K. DESHMUKH
PRINCIPAL &
CONVENER**



DR RAJENDRA GODE COLLEGE OF PHARMACY MALKAPUR

CERTIFICATE

IS PRESENTED TO :

TEJAL JAIN

For being Runner up in the Poster presentation competition held on
the occasion of "Women's Day" on 08 March 2022

Gandhi's

Adhao

Principals

Deshmukh

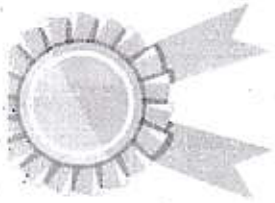


PROF. S. J. GANDHI
COORDINATOR

DR. V. S. ADHAO
IQAC COORDINATOR

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldana.

P. K. DESHMUKH
PRINCIPAL &
CONVENER



**DR RAJENDRA GODE COLLEGE OF PHARMACY,
MALKAPUR**

CERTIFICATE

IS PRESENTED TO :

Miss. Ankita Khiralkar

For being Winner/Runner in the **Poster presentation / Dance**
/Drama /One act Play competition held on the occasion of
“Women’s Day” on 09 March 2023

Gandhi



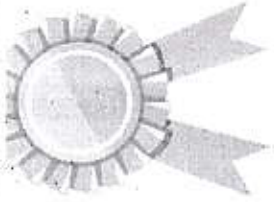
**PROF. S. J. GANDHI
COORDINATOR**

Adhao

**DR. V. S. ADHAO
IQAC COORDINATOR**

Dr. P. K. Deshmukh

**DR. P. K. DESHMUKH
PRINCIPAL &
CONVENER**



**DR RAJENDRA GODE COLLEGE OF PHARMACY,
MALKAPUR**

CERTIFICATE

IS PRESENTED TO :

Miss. Harshali Kharade

For being **Winner/Runner** in the **Poster presentation / Dance**
/ Drama / One act Play competition held on the occasion of
“Women’s Day” on 09 March 2023

Gandhi



Adhao

**PROF. S. J. GANDHI
COORDINATOR**

DR. V. S. ADHAO
JQAC COORDINATOR

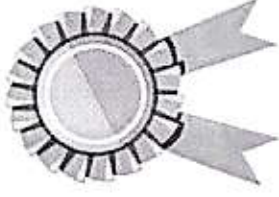
Principal

Principal,

**DR. RAJENDRA GODE COLLEGE OF
PHARMACY, MALKAPUR**
**PRINCIPAL &
CONVENER**

Deshmukh

DR. P. K. DESHMUKH
**PRINCIPAL &
CONVENER**



**Azadi Ka
Amrit Mahotsav**

DR RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

CERTIFICATE

IS PRESENTED TO:

POOJA GAJANAN DHOTE

For being Winner in the Poster presentation competition held on the
occasion of **"Women's Day"** on 08 March 2022

Gandhi's

**PROF. S. J. GANDHI
COORDINATOR**

Adhao



**DR. V. S. ADHAO
QAC COORDINATOR**

Deshmukh

Deshmukh

**DR. P. K. DESHMUKH
PRINCIPAL &
CONVENER**

DEVELOPMENT AND VALIDATION OF RP - HPLC METHOD FOR DETERMINATION OF ANTI DIABETIC DRUG IN BULK AND DOSAGE FORM



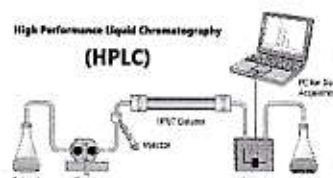
BY
Mr. Arpit Rajaram
Suralkar
(M Pharmacy QA.)
4th Sem



Guidance BY
Dr. Vaibhav Adhao
(Academic Dean)

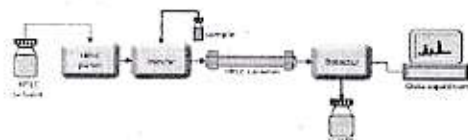
HPLC chromatography

- High Performance Liquid Chromatography which is also known as High Pressure Liquid Chromatography. It is a popular analytical technique used for the separation, identification and quantification of each constituent of mixture. HPLC is an advanced technique of column liquid chromatography.^{1,2,3}

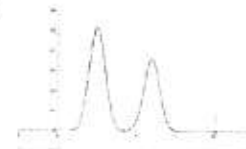


Operation:

- The sample blend to be isolated and dissected is presented, in a discrete little volume (commonly micro liters), into the stream of mobile phase permeating through the column. The segments of the sample travel through the segment at various speeds, which are a component of particular physical connections with the adsorbent (likewise called stationary stage). The velocity of every component relies on upon its compound nature, composition of mobile phase. The time at which a particular analyte elutes (rises up out of the column) is called its retention time.



- The retention time measured under specific conditions is a distinguishing normal for a given analyte. Various sorts of columns are available, loaded with adsorbents varying in molecule size, and in the nature of their surface ("surface science"). The utilization of small molecule size packing materials requires the utilization of higher operational pressure ("backpressure") and regularly enhances chromatographic resolution (i.e. the degree of division between sequential analytes rising up out of the column). Sorbent particles might be hydrophobic or polar in nature. Basic mobile phases utilized incorporate any miscible mixture of water with different natural solvents (the most widely recognized are acetonitrile and methanol).



Instrumentation

- The HPLC instrumentation involves pump, injector, column, detector, integrator and display system. In the column the separation occurs. The parts include:^{1,2,3}
- Solvent Reservoir:** The contents of mobile phase are present in glass container. In HPLC the mobile phase or solvent is a mixture of polar and non-polar liquid components. Depending on the composition of sample, the polar and non-polar solvents will be varied.^{1,2,3}



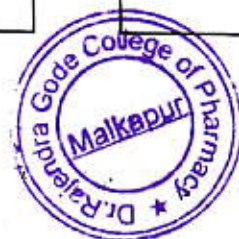
Pump: The pump sections the mobile phase from solvent reservoir and forces it to column and then passes to detector. 42000 KPa is the operating pressure of the pump. This operating pressure depends on column dimensions, particle size, flow rate and composition of mobile.



- Sample Injector:** The injector can be a solitary infusion or a computerized infusion framework. An injector for a HPLC framework should give infusion of the fluid specimen inside the scope of 0.1 mL to 100 mL of volume with high reproducibility and under high pressure (up to 4000 psi).^{1,2,3}




- Columns:** Columns are typically made of cleaned stainless steel, are somewhere around 50 mm and 300 mm long and have an inward distance across of somewhere around 2 and 5 mm. They are generally loaded with a stationary phase with a molecule size of 3 μm to 10 μm. Columns with inner diameters of <2 mm are regularly alluded to as micro bore segments. Preferably the temperature of the mobile phase and the column should be kept consistent during investigation.^{1,2,3}



DEVELOPMENT AND VALIDATION OF STABILITY INDICATING METHOD OF RP-HPLC FOR DETERMINATION OF ANTIVIRAL DRUG

PRESENTED BY :
Shubham S Lakde
M Pharm II year



Guided by :
Dr. V. S. Adhao

DR. RAJENDRA GODE COLLEGE OF PHARMACY, MALKAPUR

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INTRODUCTION
LITERATURE REVIEW
AIM & OBJECTIVES
PLAN OF WORK
DRUG PROFILE
METHOD DEVELOPMENT
RESULT AND DISCUSSION
REFERENCES

DEVELOPMENT AND VALIDATION OF STABILITY INDICATING METHOD OF RP-HPLC FOR DETERMINATION OF ANTIVIRAL DRUG 2

INTRODUCTION

❑ **Antiviral drugs -**
Antiviral drugs are a class of medicines particularly used for the treatment of viral infections. Drugs that combat viral infections are called antiviral drugs. Viruses are among the major pathogenic agents that cause a number of serious diseases in humans, animals and plants.

❑ **Stability-indicating assay method -**
Validated quantitative analytical method capable of detecting the change over time in the chemical, physical or microbiological properties of the pharmaceutical substance and specific pharmaceutical products so that the content of active ingredients and degradation products can be accurately measured without interference.

❑ **High Performance Liquid Chromatography** which is also known as High Pressure Liquid Chromatography. It is a popular analytical technique used for the separation, identification and quantification of each constituent of mixture.

DEVELOPMENT AND VALIDATION OF STABILITY INDICATING METHOD OF RP-HPLC FOR DETERMINATION OF ANTIVIRAL DRUG 3

LITERATURE REVIEW

Author Name And Year	Column Use	Mobile Phase	Flow Rate	Retention Time	LOD	LOQ
Aranga Prasadra (2022)	Kromasil CR	0.01N Potassium dihydrogen phosphate; Acetonitrile 60:40 (v/v)	1.0 ml/min	2.257 min	0.54 µg/ml	0.46 µg/ml
B. Rajkumar (2019)	Zorbax Eclipse XDB-C18	0.01M-H potassium hydrogenorthophosphate; Acetonitrile 15:85(v/v)	1.0 ml/min	7.19 min	0.05 µg/ml	0.15 µg/ml
Venkateswari D (2018)	Phenomenex CR	0.1% Ortho phosphoric acid and acetonitrile 60:40 v/v	1.0 ml/min	7.73 min	0.005 µg/ml	0.05 µg/ml
Dr. Subrahmanyam K. V (2014)	Develsil ODS HPLC CR	Acetonitrile and Potassium dihydrogen phosphate with orthophosphoric acid 40:60(v/v)	1.0 ml/min	4.50 min	0.05 µg/ml	0.15 µg/ml

DEVELOPMENT AND VALIDATION OF STABILITY INDICATING METHOD OF RP-HPLC FOR DETERMINATION OF ANTIVIRAL DRUG 4

AIM&OBJECTIVES

AIM:
Development and validation of stability indicating method of RP-HPLC for determination of antiviral drug

OBJECTIVE:
To develop a simple, precise, accurate, rapid, economical and stability indicating analytical method for simultaneous quantification of Active ingredients in single as well as in combine formulation samples using HPLC method.
To perform forced degradation study on formulation samples.
To validate the developed method for simultaneous quantification of Active ingredients in formulation samples using HPLC method.

DEVELOPMENT AND VALIDATION OF STABILITY INDICATING METHOD OF RP-HPLC FOR DETERMINATION OF ANTIVIRAL DRUG 5

- PLAN OF WORK**
- Stability indicating of antiviral drug will be done by following methods
 - ✓ HPLC Method
 - ✓ UV Spectrophotometric method
 - o Literature survey
 - o Selection of Drug molecules
 - o Method Development of Proposed Method
 - ✓ Wavelength Selection and its Detection
 - ✓ Selection of mobile phase
 - ✓ Preparation of Standard Calibration Curve
 - Validation of Proposed Method
 - ✓ Similarity factor
 - ✓ System suitability
 - ✓ Specificity
 - ✓ Stability
 - ✓ Linearity and Range
 - ✓ Accuracy (Recovery)
 - ✓ Precision
 - ✓ Stability of analytical solution
 - ✓ Filter compatibility
 - ✓ Robustness
- DEVELOPMENT AND VALIDATION OF STABILITY INDICATING METHOD OF RP-HPLC FOR DETERMINATION OF ANTIVIRAL DRUG 6





INDIRA BAHUDESSHIYA SHIKSHAN SANSTHA'S
Dr. Rajendra Gode College of Pharmacy,
Malkapur
Tal - Malkapur Dist - Buldhana

Seminar Evaluation Report for M. Pharmacy Students

Name of Students	Vaibhav Gajanan Akhand		
Branch of Specialization	Quality Assurance		
Year	First/Second	Semester:	I/II/III/IV
Topic of presentation	Pharmaceutical packaging materials.		
Date and time of presentation	12/04/2022		
Medium used	Multimedia Projector/OHP/Slide Project/Black Board		

Observation

Sr. No.	Evaluation Parameter	Max. Marks	Marks Obtained	Total
1	Voice clarity and Pronunciation	10	7	64
2	Body Language (Facial expression)	10	7	
3	Confidence	10	8	
4	Preparation for Seminar	10	8	
5	Beginning and end of seminar	10	7	
6	Ability to explain topic	10	5	
7	Defense (Ability to respond question)	10	4	
8	Overall Performance (Referencing, Books, Journals, Articles etc.)	30	18	

Remark: presentation is not good.

Signature





INDIRA BAHUJDESSHIYA SHIKSHAN SANSTHA'S
Dr. Rajendra Gode College of Pharmacy,
Malkapur
Tal - Malkapur Dist - Buldhana

M.P.M

Seminar Evaluation Report for M. Pharmacy Students

Name of Students	PRATIK PRAKASH JADHAV		
Branch of Specialization	PHARMACEUTICS		
Year:	<input checked="" type="checkbox"/> First/Second	Semester:	<input checked="" type="checkbox"/> I/II/III/IV
Topic of presentation	Computational Modeling of drug disposition		
Date and Time of presentation	23/5/2022 Time: 11:30		
Presentation aid used	Multimedia Projector/OHP/Slide Project/Black Board		

Observation

Sr. No.	Evaluation Parameter	Max. Marks	Marks Obtained	Total
1	Voice clarity and Pronunciation	10	8	
2	Body Language (Facial Expression)	10	8	
3	Confidence	10	8	
4	Preparation for Seminar	10	8	
5	Beginning and end of seminar	10	8	
6	Ability to explain topic	10	10	
7	Defense (Ability to respond question)	10		
8	Overall Performance (Referencing, Books, Journals, Articles etc.)	30		

Remark:

(Signature)





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Malkapur
Tal - Malkapur Dist - Buldhana

Seminar Evaluation Report for M. Pharmacy Students

Name of Students	Aditya Narendra Vaidya		
Branch of Specialization	PHARMACEUTICS		
Year:	First/Second	Semester:	I/II/III/IV
Topic of presentation	Computer Aided Formulation Development <i>Medicinal Chemistry</i>		
Date and Time of presentation	23/05/2022 11:30		
Presentation aid used	Multimedia Projector/OHP/Slide Project/Black Board		

Observation

Sr. No.	Evaluation Parameter	Max. Marks	Marks Obtained	Total
1	Voice clarity and Pronunciation	10	10	
2	Body Language (Facial Expression)	10	10	
3	Confidence	10	10	
4	Preparation for Seminar	10	10	
5	Beginning and end of seminar	10	10	
6	Ability to explain topic	10	10	
7	Defense (Ability to respond question)	10	10	
8	Overall Performance (Referencing, Books, Journals, Articles etc.)	30		

Remark:

Signature





INDIRA BAHUDESSHIYA SHIKSHAN SANSTHA'S
Dr. Rajendra Gode College of Pharmacy,
Malkapur
Tal - Malkapur Dist - Buldhana

Seminar Evaluation Report for M. Pharmacy Students

Name of Students	Maelhuri N. Bhattad		
Branch of Specialization	M'pharm 1 st Quality Assurance		
Year:	First/Second	Semester:	I/II/III/IV
Topic of presentation	Preclinical and clinical process		
Date and Time of presentation	8/4/2022 10:30 - 11.30		
Presentation aid used	Multimedia Projector/OHP/Slide Project/Black Board		

Observation

Sr. No.	Evaluation Parameter	Max. Marks	Marks Obtained	Total
1	Voice clarity and Pronunciation	10	5	46
2	Body Language (Facial Expression)	10	3	
3	Confidence	10	6	
4	Preparation for Seminar	10	6	
5	Beginning and end of seminar	10	8	
6	Ability to explain topic	10	5	
7	Defense (Ability to respond question)	10	3	
8	Overall Performance (Referencing, Books, Journals, Articles etc.)	30	10	

Remark:

Seminar was not satisfactory. Need to refer to recent material on the subject.
Candidate has not referred to recent material on the subject.

Signature

(J. P. more)

J. P. more





INDIRA BAHUJDESSHIYA SHIKSHAN SANSTHA'S
Dr. Rajendra Gode College of Pharmacy,
Malkapur
Tal - Malkapur Dist - Buldhana

Seminar Evaluation Report for M. Pharmacy Students

Name of Students	Shubham Shekhar Lakde.		
Branch of Specialization	MQA		
Year:	First/Second	Semester:	I/II/III/IV
Topic of presentation	Pilot Plant scale up for solid and liquid		
Date and Time of presentation	8/04/22		
Presentation aid used	Multimedia Projector/OHP/Slide Project/Black Board		
Observation			

Sr. No.	Evaluation Parameter	Max. Marks	Marks Obtained	Total
1	Voice clarity and Pronunciation	10		
2	Body Language (Facial Expression)	10		
3	Confidence	10		
4	Preparation for Seminar	10		
5	Beginning and end of seminar	10		
6	Ability to explain topic	10		
7	Defense (Ability to respond question)	10		
8	Overall Performance (Referencing, Books, Journals, Articles etc.)	30		

Remark:

(Signature)





INDIRA BAHUJDESSHIYA SHIKSHAN SANSTHA'S
Dr. Rajendra Gode College of Pharmacy,
Malkapur
 Tal - Malkapur Dist - Buldhana

Seminar Evaluation Report for M. Pharmacy Students

Name of Students	Vash Vijay Kawai		
Branch of Specialization	Quality assurance		
Year:	First/Second	Semester:	I/II/III/IV
Topic of presentation	Pilot plant set up technique		
Date and Time of presentation	12/01/2022		
Presentation aid used	Multimedia Projector/OHP/Slide Project/Black Board		
Observation			

Sr. No.	Evaluation Parameter	Max. Marks	Marks Obtained	Total
1	Voice clarity and Pronunciation	10	6	55
2	Body Language (Facial Expression)	10	5	
3	Confidence	10	8	
4	Preparation for Seminar	10	7	
5	Beginning and end of seminar	10	5	
6	Ability to explain topic	10	5	
7	Defense (Ability to respond question)	10	5	
8	Overall Performance (Referencing, Books, Journals, Articles etc.)	30	10	

Remark: need prepare & focus on the topic. Preparation of presentation was not appropriate.

Signature

(*M.P. More* M.P. More)



Dr. Rajendra Gode College of Pharmacy, Malkapur

Seminar Schedule: Drug Delivery System.

All the students are hereby informed to note their seminar schedule and prepare accordingly and deliver the seminar on the mentioned date. The seminar date will not be change in any circumstance.

Roll No	Name of Student	Date	Topic
MPH01	Aditya Dilipkumar Bhakare	08/02/2023 15/02/2023	Gastro-retentative Drug Delivery System
MPH02	Amol Ramesh Wankhade	09/02/2023 16/02/2023	Rate Controlled Drug Delivery System
MPH03	Anand Diwakar Tekade	10/02/2023 17/02/2023	Protein and Peptide Delivery
MPH04	Aniket Sudhakar Sapkal	13/02/2023 16/02/2023	Buccal Drug Delivery System
MPH05	Dhanshri Bhagwat Ingale	14/02/2023 22/02/2023	Personalized Medicine
MPH06	Kalpesh Pramod Kukade	16/02/2023 23/02/2023	Vaccine Delivery System
MPH07	Monika Vilas Arbat	17/02/2023 24/02/2023	Transdermal Drug Delivery System
MPH08	Samiksha Sanjay Charpe	09/02/2023 24/02/2023	Ocular Drug Delivery System
MPH09	Sunil Baburao Bansode	10/02/2023 24/02/2023	3D Printing of Pharmaceuticals Telepharmacy



Subject In-charge
Dr. R. R. Thenge

Dr. Rajendra Gode College of Pharmacy, Malkapur
M. Pharm Sem -I (Pharmaceutics) 2022-23

Dear M. Pharm SEM I students,

Please go through the list of topic for seminar presentation. You need to prepare your presentation and submit hard copy of assignment on the day of presentation. The date of presentations is also given below. Follow the guidelines strictly and attendance is compulsory. No further extension will be entertained.

Roll. No.	Name of Student	Topic <i>SEMINAR I</i>	Date of Presentati on	Topic for <i>SEMINAR II</i>	Date of Presentati on
MPH 01	Aditya Dilipkumar Bhakare	Preformulation Concept (UNIT I)	06/02/2023	Total Quality Management (UNIT III)	13/02/2023
MPH 02	Amol Ramesh Wankhade	Theories of Dispersion and Pharmaceutical Dispersion (UNIT I)	06/02/2023	Physics of Tablet Compression (UNIT IV)	13/02/2023
MPH 03	Anand Diwakar Tekade	Preparation and Stability of Large and Small Volume Parenteral (UNIT I)	07/02/2023	Consolidation and Compaction Profile (UNIT IV)	14/02/2023
MPH 04	Aniket Sudhakar Sapkal	Optimization Techniques in Pharmaceutical Formulation (UNIT I)	07/02/2023	Solubility and Role of Solubility parameters in product development (UNIT IV)	14/02/2023
MPH 05	Dhanshree Bhagwat Ingale	Optimization Techniques in Pharmaceutical Processes and Statistical Design (UNIT I)	08/02/2023	Study of consolidation parameters with special emphasis on diffusion (Unit V)	15/02/2023
MPH 06	Kalpesh Pramod Kukade	Validation (UNIT II)	08/02/2023	Study of consolidation parameters with special emphasis on dissolution (Unit V)	15/02/2023
MPH 07	Monika Vilas Arbat	Validation of Solid and Liquid Dosage Form (UNIT II)	09/02/2023	Study of consolidation parameters with special emphasis on Pharmacokinetic Parameters (Unit V)	16/02/2023
MPH 08	Samiksha Sanjay Charpe	Validation of Parenteral and semisolid Dosage forms, Manufacturing Process Model (UNIT II)	09/02/2023	Similarity Factor – F1 and F2 correlation and importance in product development (Unit V)	16/02/2023
MPH 09	Sunil Baburao Bansode	Current Good Manufacturing Practices (UNIT III)	10/02/2023	Statistical Methods – ANOVA, Chi Square Test, Student T Testh (Unit V)	17/02/2023



(Signature)
Dr. Mahesh P. More

DR. Rajendra Gode College of Pharmacy, Malkapur


M.Pharm Sem-I (Quality Assurance) 2022-2023

Dear M. Pharm Sem -I Students, please go through the list of topics for presentation ___

Roll No.	Student Name	Date	Time	Seminar Topic
MQA 01	Hrutik R. Kanhed	27/03/2023	02:00 PM - 02:45 PM	Quality management System & customer focus (UNIT -I)
MQA 02	Kalyani M. Sheku	27/03/2023	02:45 PM – 03:30 PM	Pharmaceutical Quality Management (UNIT – II)
MQA 03	Nikhil B. Kotgale	29/03/2023	01:30 PM – 02:15 PM	Drug Stability & Quality Risk Management (UNIT -IV)
MQA 04	Sanket B. Marke	29/03/2023	02:15 PM -02:45 PM	Statical process control (SPC) (UNIT- V))
MQA 05	Shreyash P. Choudhari	29/03/2023	02:45 PM - 03:30 PM	Benchmarking (UNIT- VI)



Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana.


Prof. A.D. Taktode
Subject In charge

DR. Rajendra Gode College of Pharmacy, Malkapur

M.Pharm Sem- I (Quality Assurance) 2022-2023

Dear M. Pharm Sem -I Students, please go through the list of topics for presentation __

Subject- Product Development & Technology Transfer

Roll No.	Student Name	Date	Time	Seminar Topic
MQA 01	Hrutik R. Kanhed	31/03/2023	01:30 PM - 02:00 PM	Drug discovery & drug Development & (UNIT -I)
MQA 02	Kalyani M. Sheku	31/03/2023	02:00 PM - 02:30 PM	SUPAC & BACPAC (UNIT - I)
MQA 03	Nikhil B. Kotgale	03/04/2023	01:30 PM - 02:15 PM	Preformulation studies (UNIT -II)
MQA 04	Sanket B. Marke	03/04/2023	02:15 PM -02:45 PM	Pilot plant scaleup technique (UNIT- III)
MQA 05	Shreyash P. Choudhari	03/04/2023	02:45 PM - 03:30 PM	Pharmaceutical Packaging & Quality Control test (UNIT- IV)



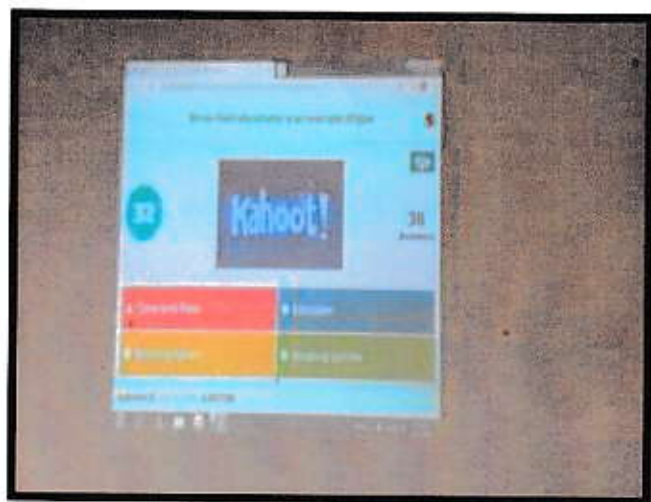
Dr. P.P. Chinchole

Dr. P.P. Chinchole

Subject In charge

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana.

Pedagogical Activities



Dr. Rajendra Gode College of Pharmacy, Malkapur
Criterion 2 – Teaching –learning and Evaluation



Scoreboard	
Poojisha	1807 A
Poojari	1577
Mayuri	1438
Nisha	1255
Tushar	887

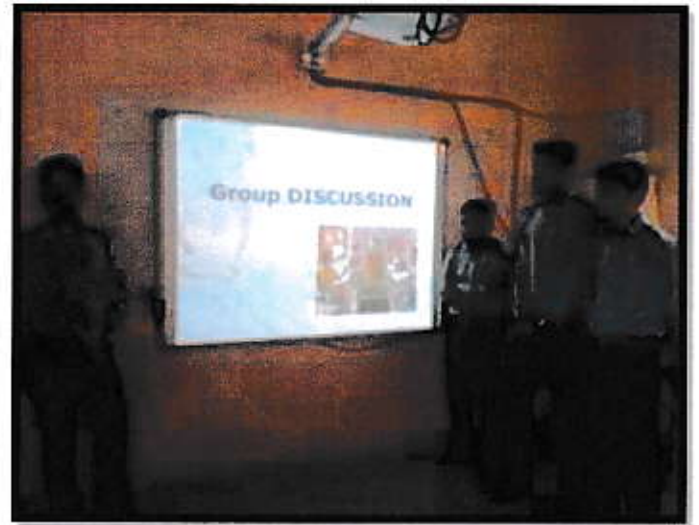
1st Place - Poojisha is the highest scorer!



Group Discussion



Dr. Rajendra Gode College of Pharmacy, Malkapur
Criterion 2 – Teaching –learning and Evaluation



Dr. Rajendra Gode College of Pharmacy, Malkapur
Criterion 2 – Teaching –learning and Evaluation

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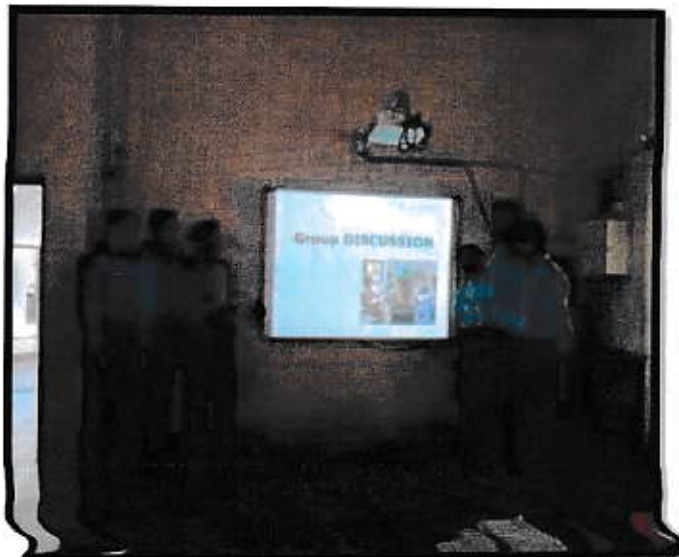
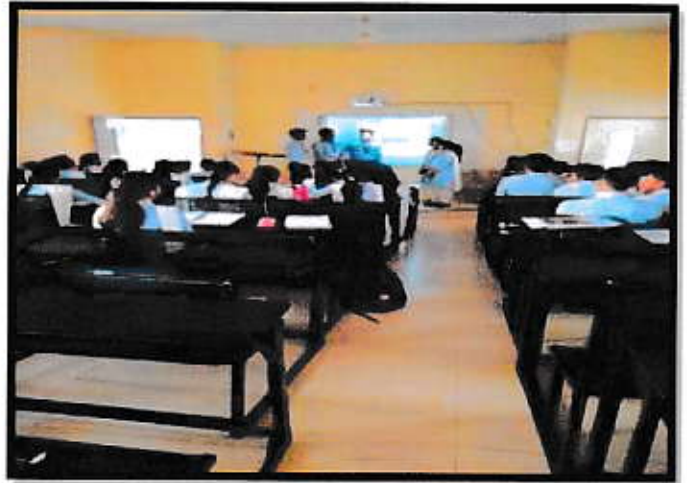
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Criterion 2 – Teaching –learning and Evaluation



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Criterion 2 – Teaching –learning and Evaluation



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Theory Marks Distribution Chart 2022-23 Winter
DIRAJENDRA GODI COLLEGE OF PHARMACY, MAHAKUPIR
Name of Subject Teacher: Prof. J. P. Ambhure
SUBJECT: Pharmaceutical Engineering

B Pharm Semester III		Continuous Mode Marks				Sessional Marks			Total mark (Out of 25)
		1	2	3	A (1+2+3)	Sessional Theory	B	A + B	
Roll No.	Candidate Name	Attendance (4)	College Activities (Out of 3)	Student Teacher Interaction (Out of 3)	Total	P ¹ (00-100%)	P ² (00-100%)	BOI (Out of 15)	
1	Aachal Rameshwar Gadhe	4	3	3	10	12	9	13	23
2	Aarti Karlas Tayde	4	3	3	10	12	10	12	22
3	Abhishek Mahadev rao Dhatriak	3	3	3	9	8	11	11	20
4	Abhishek Nikant Mankar	4	3	3	10	AB	8	8	18
5	Aditi Damodar Sumbare	3	3	3	9	13	9	13	22
6	Aditya Sheshrao Rokade	3	3	3	9	10	12	12	21
7	Aditya Vilas Gedam	3	3	3	9	AB	10	10	19
8	Ajay Dnyaneshwar Patil	3	3	3	9	10	11	11	20
9	Ajay Sahadeo Lohole	4	3	3	10	11	6	11	21
10	Aniket Dnyaneshwar Survastanshi	3	3	3	9	12	8	12	21
11	Angali Ganaman Dandge	4	3	3	10	10	8	10	20
12	Ankit Dinesh Doshi	3	3	3	9	AB	7	7	16
13	Anwar Mohammad Anas Mohammad	2	3	3	8	AB	8	8	16
14	Arpita Vikas Pawar	4	3	3	10	15	13	15	25
15	Asmita Rajendra Dhole	3	3	3	9	11	13	13	22
16	Charanya Gunes Khandagale	3	3	3	9	7	3	7	16
17	Dhanangay Numbraj Chandane	3	3	3	9	9	10	10	19
18	Dhruv Ganaman Ingle	4	3	3	10	AB	8	8	18
19	Diksha Dipak Walurwagh	4	3	3	10	13	12	13	23
20	Dipak Prakash Kalyankar	4	3	3	10	12	11	12	22
21	Dnyaneshwar Satyanarayan Bharade	3	3	3	9	12	9	12	21
22	Eknath Ganesh Dandale	3	3	3	8	10	10	10	18
23	Gaurav Guruprasad Mantri	3	3	3	9	13	12	13	23
24	Gomoga Hitesha Bisen	3	3	3	9	AB	6	6	15
25	Gota Chaitansh Chavan	4	3	3	10	10	AB	10	20
26	Hardev Gaywade	4	3	3	10	13	10	13	23
27	Harish Dnyaneshwar Tayade	4	3	3	10	13	12	13	23
28	Harsh Natin Gollbani	4	3	3	10	AB	4	4	14
29	Harshal Sanjay Borse	3	3	3	9	12	6	12	21
30	Himaj Dayaram Ade	2	3	3	8	AB	9	9	17
31	Jagrati Narendra Jadhav	3	3	3	9	9	11	11	20
32	Jayesh Arun Wankhede	4	3	3	10	13	8	13	23
33	Jayshri Narsing Sonane	4	3	3	10	9	AB	9	19
34	Jyoti Madhukar Nivane	3	3	3	9	9	11	11	20
35	Kalyani Shivaji Dhakne	3	3	3	9	12	13	13	22
36	Kamethan Sunil Solankar	4	3	3	10	10	10	10	20
37	Mangra Santosh Wadhve	3	3	3	9	8	11	11	20
38	Mangru Prakash Patil	3	3	3	9	10	13	13	22
39	Mohan Kisan Chopade	4	3	3	10	10	12	12	22
40	Mohammed Sabir Ahmed	2	3	3	8	AB	10	10	18
41	Mrunali Vasant Chaudhari	4	3	3	10	12	12	12	22
42	Neha Santoshsingh Rajput	4	3	3	10	7	10	10	20
43	Neha Shivaram Narkhede	4	3	3	10	13	12	13	23
44	Niketa Rajkumar Shende	3	3	3	9	8	11	11	20
45	Nilesh Sunesh Dabergao	3	3	3	9	AB	5	5	14
46	Pallavi Ajay Navalkar	4	3	3	10	9	7	16	26
47	Pallavi Rajkumar Ghisar	4	3	3	10	6	8	8	18
48	Pawan Rameshwar Wawal	3	3	3	9	12	3	13	22
49	Prabhakar Kisan More	3	3	3	9	9	9	9	18
50	Prachi Karlas Amte	4	3	3	10	11	9	11	21
51	Prachi Wamare	4	3	3	10	11	13	13	23
52	Prarwal Lavhale	2	3	3	8	8	11	11	19
53	Pramati Sandip Patil	4	3	3	10	12	11	12	22
54	Prathmesh Sanjay Patil	2	3	3	8	8	AB	8	16
55	Pratik Sanjay Amode	4	3	3	10	12	12	12	22
56	Pratik Rajput	4	3	3	10	7	AB	7	12
57	Pratiksha Manohar Sirey	4	3	3	10	7	9	9	19
58	Prem Vinod Lokar	3	3	3	9	12	11	12	21
59	Puja Vijay Patil	4	3	3	10	14	12	14	24
60	Ram Jyendrasingh Rajput	4	3	3	10	11	13	13	23

61	Renika Vajresh Patil	4	3	3	10	7	11	11	21
62	Revati Shrikashina Dhokane	3	3	3	9	11	12	13	22
63	Rimzon Paryani	4	3	3	10	13	AB	15	25
64	Rohan Madhav Kogde	3	3	3	9	12	12	12	21
65	Rohan Mane	4	3	3	10	AB	12	12	22
66	Roni Santosh Gurhe	3	3	3	9	10	9	10	19
67	Rushikesh Dinkar Pachpor	2	3	3	8	AB	11	11	19
68	Sagar Namdeo Nemane	3	3	3	9	9	5	9	18
69	Sakshi Deydas Dhokare	3	3	3	9	9	12	12	21
70	Sakshi Ganesh Patil	4	3	3	10	10	11	11	21
71	Sakshi Prakash Patil	4	3	3	10	10	9	10	20
72	Sambhaji Sutarashu	4	3	3	10	12	11	12	22
73	Sameer Arun Khadekar	3	3	3	9	13	11	13	22
74	Samiksha Gaganan Kogde	4	3	3	10	13	12	13	23
75	Santosh Dhanraj Zade	3	3	3	9	10	10	10	19
76	Sanchi Dhale	0	0	0	0	0	0	0	0
77	Sandeep R Moutva	3	3	3	9	12	10	12	21
78	Sanskriti Avinash Borle	3	3	3	9	11	7	11	20
79	Savali Sunar Kharche	4	3	3	10	13	9	13	23
80	Seema Gaganan Shelke	4	3	3	10	11	10	11	21
81	Shantanai Sanjay Wakode	3	3	3	9	11	6	11	20
82	Shreyas Gopal Chopade	4	3	3	10	10	13	13	23
83	Shubham Chaitan Ingle	3	3	3	9	8	12	12	21
84	Shweta Sanjay Patil	4	3	3	10	12	12	13	23
85	Snigdha Rajesh Khilare	3	3	3	9	11	7	11	20
86	Snehal Santosh Adhao	4	3	3	10	11	11	11	21
87	Smita Prakash Sonone	4	3	3	10	7	6	7	17
88	Swarnim Damodar Tayade	4	3	3	10	12	AB	13	23
89	Syed Mushtarrat Syed Saleem	2	3	3	8	AB	8	8	16
90	Tegis Shivaji Jangare	2	3	3	8	AB	8	8	16
91	Tushar Rajendra Bhople	2	3	3	8	AB	14	14	22
92	Ujwala Dnyanesh Aadhre	4	3	3	10	15	13	15	25
93	Utsav Balram Warge	2	3	3	8	12	12	12	20
94	Varshma Dnyaneshwar Hukad	3	3	3	9	8	12	12	22
95	Varshma Ananta Khandare	4	3	3	10	12	14	14	24
96	Vedant Arav Deshmukh	4	3	3	10	12	13	12	22
97	Vika Balkrishna Barbat	2	3	3	8	AB	12	12	20
98	Vishal Sanjay Horse	3	3	3	9	10	12	12	22
99	Vishwavya Sanjay Dinkar	4	3	3	10	AB	12	12	22
100	Yamini Bhauddas Gurdhane	4	3	3	10	10	13	13	23
101	Yash Gaganan Nemade	3	3	3	9	AB	7	7	16
102	Yash G Chaudhane	3	3	3	9	8	8	8	17
103	Yash Satyendra Jari	4	3	3	10	10	11	11	21
104	Yashraj Pralhad Rote	3	3	3	9	AB	6	6	15
105	Adesh Santosh Ingole	3	3	3	9	9	5	9	18
106	Ahira Balkrishna Gupta	4	3	3	10	12	10	12	23
107	Bhagyashri Manohar Patil	4	3	3	10	14	11	14	24
108	Dhanraj Ayubhai Chavan	3	3	3	9	12	12	13	22
109	Eknath U. Jha Kothle	4	3	3	10	15	12	15	25
110	Gayatri Rajendra Sultane	3	3	3	9	13	9	13	22
111	Mohini Suresh Tidake	3	3	3	9	14	13	14	23
112	Mustazib Ahmed Ateeque	2	3	3	8	10	AB	10	18
113	Neena Ganam Ingle	4	3	3	10	14	11	14	24
114	Niraj Arvind Vamari	3	3	3	9	14	10	14	23
115	Dinkar Jadhav Khadkeshwar	4	3	3	10	14	13	14	24
116	Pooja Vaman Gurhe	4	3	3	10	14	13	14	24
117	Rohit Taraji Pawar	4	3	3	10	AB	8	8	18
118	Sachin Haribhai Wankhede	0	0	0	0	0	0	0	0
119	Sagar Bhanu Chaudhari	3	3	3	9	11	8	11	20
120	Smita Bhagwan Padalkar	3	3	3	9	10	6	10	19
121	Vishal Ramesh Gupta	3	3	3	9	13	9	13	22

Name - Ku. Rani Jitendrasingh
Rajput.

Sub - pharmacognocny & phyto-
chemistry - I

Roll No - 72

Batch - C.



Date -

Assignment No. 01

Q 1) Define pharmacognocny. write History, scope and development of pharmacognocny.

Ans. pharmacognocny is defined as scientific & systematic study of physical, chemical, structure, and biological characters of crude drugs along with geographical source, history, method of cultivation, collection & preparation for market.

History of pharmacognocny -

The history of herbal medicine is as old as human civilization. Contributions of various scientists for development of pharmacognocny system was German scientist & wrote a book "Analecta pharmacognostica" in 1815.

Pharmakon - Drug

Gignoso - To acquire knowledge of



Galen was Greek pharmacist; worked on extraction of chemical constituent from plant. He was regarded as a 'father of experimental physiology' & also as 'first pharmacist of world'.

Hippocrates in 460-360 B.C. he was Greek scientist; he worked on HAP & ANS & on systems. He was regarded as father of medicine.

Aristotle (384-322 B.C.) He renowned philosopher was well known for his studies on classifying animal & plant kingdom. He was father of natural history.

G. Mendel published the important observations on plants Hybrids.

Sushruta Samhita who introduced surgery in Ayurveda & He was considered as a "father of surgical medicine".

Charaka Samhita is first recorded treatise fully devoted to concept of practice of Ayurveda.



Scope of pharmacognosy -

pharmacognosy as an applied science has played an important role in development of different disciplines of science. Medicinal plants have great values in treatment & care of diseases. Enormous no. of alkaloids, glycosides, tannins, volatile oils have been isolated, identified & used as curative agents.

Natural products have been used as a drug substitute for semisynthetic patent drugs. Future development of pharmacognosy as well as Herbal drug industries dependent upon reliable methodologies for identification of marker compounds of extracts.

The crude drugs which are obtained from plants, animals & mineral sources & their active chemical constituents are subject matter of pharmacognosy.

In this way scope of pharmacognosy seems to



enormous in field of medicines, bulk drugs, food supplements, pharmaceutical necessities, tissue culture biotechnology & genetic engineering, etc.

Development of pharmacognocny

Pharmacognocny is nearly medicine of pharaohs around 3000 B.C. The modern pharmacognocny occurred during 1934 - 1960.

This development was mainly due to some events like, Discovery of penicillin in 1928. Isolation of reserpine 1952. Anticancer properties of vinca rosea.

The knowledge of pharmacognocny in plant taxonomy, breeding, pathology & genetics



2) Enlist different method of pharmacognosy & classification of crude drugs.

Pharmacognostic study, crude drugs are classified as follows

1) Alphabetical classification

- Indian pharmacopeia
- National Compendium
- United States pharmacopeia
- BP
- British Herbal pharmacopeia
- pharmacopeia internationalis
- European pharmacopeia

2) Chemical classification

- pharmacological activity
- therapeutic activity

3) pharmacological classification or therapeutic

4) Morphological classifications

5) Taxonomical classification

6) chemo Taxonomical classification



3) write in detailed about the pharmacological classification & taxonomical classifications.

pharmacological or Therapeutic classification -

Grouping of drugs according to their pharmacological action or of most important constituent or their therapeutic use is termed as pharmacological or therapeutic classification of drug.

Advantages -

1) with the help of pharmacological classification, medicinal importance of drugs is known easily.

2) Crude drugs used as a pharmaceutical aid, do not have any place in this class.

Disadvantages -

1) It does not give any idea whether drugs are organized or unorganized.



2) This method does not give any idea about source of drugs.

pharmacological Action	Drugs
Carminatives purgatives Anti-cancer	clove, dill cascara, senna, aloe. podophyllum, vinca
Bitter tonic	Gentian, cinchona.
Expectorant	liquorice

Taxonomical classification -

It is purely botanical classification & is based on principles of natural relationship & evolutionary developments & is restricted mainly to crude drugs obtained from plant source only.

Example -

1) fennel

Division - Angiosperm

class - Dicotyledons

order - Umbelliflorae

family - Umbelliferae



4) Defined adulteration & substitution
write difference between
Adulteration & Substitution.

Adulteration - Adulteration
means the debasement of an
article.

Substitution - It is an addition
of an entirely different
article in place of required
one.

Difference between adulteration
& substitution.

	Adulteration	Substitution
1)	Adulteration is practice of substituting original drug partially with other similar looking substances	substitution occurs when totally different substance is added in place of original drug.
2)	An adulterant is similar to original drug with respect to its	

morphological characters	The substitute is of substandard variety of drug.
eg- Saffron is adulterated with safflower.	eg- clove is substituted by mother clove.

5) write in details about different type (method) of adulteration.

1) Replacement by exhausted drug
 It is usual in case of costly drugs like clove, ginger, fennel, tea, etc. The active chemical constituents are exhausted from these drugs & exhausted drug is colored properly with artificial dye & mixed with genuine drug.

2) Use of vegetative matter from same plant:-

This is done by mixing naturally occurring adventitious matters with drug in excessive amounts of parts of plants other than that which



which constitute the drugs.

eg - clove stalks are used as adulterant in cloves.

3) Addition of Synthetic chemicals -

synthetic chemical which consist one of the chemical constituents of drug is added to genuine drug.

eg - Benzyl benzoate is added to peru balsam.

4) Adulteration of powders -

Beside entire drugs, powdered forms are frequently used as adulterants.

eg - Dexmin mixed with ipecacanha.

5) substitution by sub-standard or inferior commercial varieties -

Due to morphological resemblance to authentic drug, different inferior commercial varieties are used as

adulterants which may or may not have any chemical or therapeutic potential as that of original natural drug.

eg - Capsicum annuum used to mix with capsicum minimum.

Q) Define term evaluation. Enlist different method of evaluation write about microscopic & organoleptic.

Ans. Definition - Evolution.

Evolution of drug means confirmation of its identity & determination of its quality & purity or to confirm the identify, quality & purity of a crude drug.

Methods of evaluation -

- 1) microscopic evaluation.
- 2) chemical
- 3) Solubility
- 4) physical
- 5) Foreign organic matter
- 6) Biological
- 7) organoleptic or morphological.



1) Microscopic Evaluation -

This method allows detailed examination of crude drug & can be used to identify organized crude drug by their histological characters.

Microscopic Evaluations are as follow -

Leaf Surface Constants

- A) Stomatal no.
- B) Stomatal Index
- C) Vein Islet no.
- D) Palisade Ratio
- E) Quantitative Microscopy

2) Chemical Evaluation -

Isolation, purification & identification of active chemical constituents from crude drug are chemical method of evaluation.

Quantitative chemical tests such as acid value, saponification value, etc., are also covered in chemical evaluation.

Qualitative tests are useful in detection of adulterants.



3) Physical Evolution -

physical methods are used for evolution of crude drug whenever possible. physical standard like specific gravity, density, optical rotation, m.p., viscosity & solubility in different solvents.

physical evolution methods -

- 1) Determination of moisture content
- 2) Determination of viscosity.
- 3) Determination of m.p.
- 4) Determination of ash content.

4) Biological evolution - (Bio Assay)

Estimation or determination of potency & any crude drugs or its preparation by means of its effect on living organism like bacteria, fungi, animal or animal tissue is known as bioassay.

Bioassay can be done by three types.

- 1) Toxic
- 2) Symptomatic
- 3) Tissue method.



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5) organoleptic or morphological or macroscopic evolution -

Crude drug may be evaluated by color, odor, shape, size, taste, touch, texture, sound etc is known as organoleptic evaluation.

Morphology of crude drugs is described in official books & is considered as guidelines for their study. But morphology of crude drug may vary by several factors like

- when crude drugs are exposing to sunlight then color of crude drug may fade.

21/04/2025



Assignment no. 02

date - 21/04/23

Q1. Explain method of cultivation along with advantages & disadvantages.

Methods -

1) Sexual (propagation) of seed

2) asexual (vegetative propagation)

3) Layering 6) Budding.

4) cutting 5) Grafting

• Sexual method -

In sexual method plants are raised by propagating the seeds. These plants are known as seedlings. Seeds which are to be used for

propagation should be of standard quantity & they should be free from disease, insects & extraneous material. They should possess high germination rate. Long storage of all seeds decreases % of germination.

Advantages -

① Seedlings are cheap & can be



Rajendra Gode College of Pharmacy, Malkapur
Project Report B. Pharm Final Year 2022-23

Roll No	Name of Student	Guide	Topic Title
1	Aarri satyanarayan varma	Prof C S Chandak	Medicated polyherbal hair gel formulation
2	Abdul Sameer Abdul Muntazim	Prof R P Gandhi	Green synthesis of silver nanoparticles from giloy plant
3	Abhijeet Dryandoo Amale	Prof P S Lande	Infectious Disease:- Corona virus
4			
5	Aditya Vikas Bodade	Prof P S Lande	Infectious Disease :- Coronavirus
6	Aifaz Ur Rehman Atik Ur Rehman	Prof A G Titare	Review on drug revlimid
7	Aishwarya Subhash Chavhan	Prof C S Chandak	Medicated polyherbal hair gel formulation
8	Akanksha Gosavi	Prof C S Chandak	Medicated polyherbal hair gel formulation
9	Akash Gajanan Rothe	Prof A G Titare	Review on Herbal potential for treatment of osteoporosis.
10	Akash Madhukar Wagh	Dr R R Thenge	STUDIES ON CRYSTAL FORMS OF BCS-2 DRUGS: PREPARATION, CHARACTERIZATION AND EVALUATION
11	Akash Vasudeo Nikam	Dr R R Thenge	STUDIES ON CRYSTAL FORMS OF BCS-2 DRUGS:-PREPARATION, CHARACTERIZATION AND EVALUATION
12	Akshada Anil Tap	Prof A G Titare	Review on luteolin
13	Amol Yuvraj Mole	Prof. M B Narkhede	Review on Quercetin
14	Anchal Ganesh Patel	Dr P P Chinchole	Drug likeness study of pyrazole derivative from the novel researcher article.
15	Aniruddha T. Wankede	Prof. M B Narkhede	Review of Quercetin
16	Anushka gadhe	Dr V S Adhao	Development and validation of Hplc method for determination of antiviral drug
17	Arti jankirram Daberao	Prof A G Titare	Reviews of luteolin-A pharmacological Activity
18	Ashish Digambar Dikkar	Prof A G Titare	Review of Luteolin
19	Atul Ramesh Kalpande	Dr R R Thenge	Studies on crystal forms of BCS-II drugs: Preparation, Characterization and Evaluation
20	Chandrakant Ginyander Shinde	Dr M P More	SYNTHESIS OF HETERO ATOM DOPED FLUORESCENT CARBON DOTS FOR SENSING OF HEAVY METAL.
21			
22	Dhananjay Bhagwan Ingle	Dr M P More	SYNTHESIS OF HETERO ATOM DOPED FLUORESCENT CARBON DOTS FOR SENSING OF HEAVY METAL.
23	Dhanshri Narayanrao Khodke	Prof. M B Narkhede	Zebrafish Experimental model for toxicology study
24	Dhiraj Gajanan Vaidyakar	Prof. M B Narkhede	Review of quercetin
25	Dhiraj sheshrao wanare	Prof. V M Shejoi	Method Development and validation of antidepressants drug by rp hplc
26	Dipak Ramesh Chavan	Prof A G Titare	Review on monkeypox
27	Dipanshu Chandraprakash Madhani	Prof. M W Babhulkar	Product survey of Cetrizine.
28	Divya Prafulla Kharate	Prof. M B Narkhede	Zebrafish Experimental Model For Toxicology Study
29	Farhan ahemed Khan Aabid ullah khan	Prof R P Gandhi	Green Synthesis of Silver nanoparticles from Giloy plant
30	Gaurav Prabhakar Patil	Prof. V M Shejoi	Method development and validation of anti depressant drug by RP HPLC
31	Gopal Rajendra Dhoran	Prof. V M Shejoi	Method Development and Validation of Anti-diabetic drug by RP-HPLC
32	Gurjan Pradeep Taori	Prof C S Chandak	Medicated Herbal Soap
33	Harish Anil wagh	Prof. M B Narkhede	METHOD DEVELOPMENT AND VALIDATION OF ANTI-DEPRESSANT DRUG BY RP-HPLC
34	Harshal A Deshmukh	Prof. M B Narkhede	Method development and VALIDATION of anti diabetic drugs by using hplc



35	Hemant D Sarmaik	Prof A G Titiare	Review of monkey pox
36	Hrutik Suresh Sawarkar	Dr P P Chinchole	Simultaneous estimation of marketed Formulation of paracetamol and aceclofenac tablet by using hplc method
37	Ibrahim Khan	Prof R P Gandhi	Green synthesis of nanoparticle Giloy plant
38	Karan Sunil Gayakwad	Dr M P More	Synthesis of Hetero Atom Doped Fluorescent Carbon Dots for Sensing of Heavy Metals.
39	Kartik Narendra Deulkar	Prof. A M Rathi	Poly herbal anti dandruff shampoo
40	Kedar Kailas Bodkhe	Prof A G Titiare	Review on Monkey Pox
41	Anjali Arun Jaiswal	Prof J P Ambhore	Development And Validation Of Suitable Analytical Method For Estimation Of Antiviral Drug From Marketed Formu
42	Ankita Kishor Waghode	Dr G D Mehre	Medicated Herbal Moisturizing Cream
43	Divya Santosh Kharode	Prof J P Ambhore	Development and Validation of Suitable Analytical method for Estimation of Antiviral drug from Marketed Formu
44	Gauri Prakash Pote	Dr G D Mehre	Formulation and Evaluation of Herbal Lipstick from Rosa Kordesii
45	Madhura Vipin Purohit	Dr G D Mehre	Formulation and evaluation of Herbal lipstick from Rosa Kordesii
46	Sakshi Ravindra Ingole	Prof J P Ambhore	Development And Validation Of Suitable Analytical Method For Estimation Of Antiviral Drug From Marketed Formu
47	Shital honmane	Prof R R Popat	Pilot plant scale up technique in solid dosage form
48	Swati Thakur	Prof M B Narkhede	Zebrafish as a model for Diabetic Retinopathy
49	Tanushri Purushottam Raipure	Prof K P Gaikwad	Cell therapy and heart disease
50	Vaishnavi Sanjay Thakare	Prof J P Ambhore	Development and validation of suitable analytical method for estimation of antiviral drug from marketed formulation
51	Mahima Rajesh Rathi	Dr G D Mehre	Formulation and Evaluation of Herbal Lipstick from Rosa Kordesii
52	Lekharaj kakar	Prof R R Popat	Pilot plant scale up technique in Solid dosage form
53	Mahima Sanjay Munde	Prof J P Ambhore	Development and validation of Suitable analytical method for estimation of anti viral drug from marketed formulation.
54	Mayur Anilkumar Chugwani	Prof M W Babhulkar	Pharma marketing and sales-product survey of Telmisartan at Malkapur
55	Mayur vinod tayade	Dr P P Chinchole	Simultaneous estimation of marketing formulation of aceclofenac and paracetamol tablet using hpl method
56	Mayuri laxman kharche	Prof M B Narkhede	Zebra fish as a model for diabetic retinopathy
57	Megha wanare	Dr V S Adhao	Development and validation of hplc for determination of anti viral drug
58	Mohammad owaiss	Prof A G Titiare	Review on drug revimimid
59	Mohd Siddique shaikh yunus	Prof A G Titiare	Review on REVLIMID drug.
60	Naved Jawed Chavhan	Prof A G Titiare	Review On Drug Revlimid
61	Nilima Nevalchand Jadhao	Dr P P Chinchole	Drug likeness study of pyrazole derivative from the novel research article
62	Pankaj aravind dhavale	Prof L P Joge	New herbal anticancer drug gilyoy
63	Payal Rajesh chandak	Prof M B Narkhede	Zebra fish as a diabetics retinopathy model
64	Pooja Gajanan Dhote	Prof M W Babhulkar	Pharma Marketing and Sales - Product Survey Of Telmisartan At Malkapur
65	Pooja Shankar adhe	Prof R R Popat	Solid dosage form
66	Pranati Wasudeo Shahane	Dr G D Mehre	Medicated herbal moisturizing cream
67	Pranav Santosh Wakte	Prof K P Gaikwad	Cell therapy in heart disease
68			
69	Prasanna Mahadev Thombare	Dr V S Adhao	Development and validation of hplc method for determination of antiviral drug
70	Prashant sanjay chikate	Prof M B Narkhede	Review on Quercetin
71	Pratik Vinod Tak	Prof A M Rathi	Polyherbal Anti-dandruff Shampoo



72	Pratima santosh ukarde	Prof K P Gaikwad	Cow urine therapy for cancer
73	Prerana gajanan sapskal	Prof C S Chardak	Medicated Herbal Soap
74	Priyanka ashok kharche	Prof K P Gaikwad	Cell therapy and heart disease
75	Priyanka Sanjay Bhirud	Prof V M Shejol	Method development and validation of antibiotic drug by HPLC
76	Priyanka vijay khakare	Prof M B Narkhede	Zebrafish Experimental Model for Toxicology study
77	Punam Kailas Satav	Dr G D Mehre	Medicated Herbal Moisturizing Cream
78	Punam Namdev Paisode	Prof M B Narkhede	Zebrafish Experimental Model For Toxicology Study
79	Rahul Vinod Nihalani	Prof M W Babhulkar	Pharma marketing Survey of Telmisartan drug
80	Raj D Gidhwani	Prof M W Babhulkar	Product survey of ceftrizime
81	Rajat Gajanan Yadav	Dr V S Adhao	Development and validation of HPLC method for determination of antiviral drug.
82	Rohan vinayak adhao	Prof A G Titare	Review on luteolin
83	Rupesh Dinkar Lahase	Prof L P Joge	New Herbal Anticancer drug Giloy
84	Rushikesh Raut	Prof K P Gaikwad	Cell Therapy in heart disease
85	Rushikesh keshavrao Deshmukh	Prof K P Gaikwad	CELL THERAPY IN HEART DISEASE
86	Rushikesh Narayan kale	Prof A M Rathi	Polyherbal anti dandruff shampoo
87	Rushikesh Vijay Tayade	Dr P P Chinchole	Simultaneous Estimation of Marketed Formulation of Aceclofenac And Paracetamol Tablet Using HPLC Method
88	Rutuja Hanumantrao Yadav	Prof R A Darakhe	To synthesis and evaluation of Nelfinavir Mesylate drug loaded nanoparticle
89	Rutuja Milind Bagade	Prof M B Narkhede	Zebrafish Experimental model for Toxicology study.
90	Rutuja Prakashchand Bangade	Prof L P Joge	New Herbal AntiCancer Drug Giloy
91	Sagar Gajanan Baddode	Prof A G Titare	Review on Herbal Potential for Treatment of Osteoporosis
92	Sakshi Dilipsingh rajput	Dr V S Adhao	Development and validation of HPLC method for determination of antiviral drug
93	Sakshi Ravikiran Bodwade	Prof M B Narkhede	Zebrafish as a model for diabetic retinopathy
94	Sangharsh Rajendra Kamble	Prof R A Darakhe	Zinc oxide nanoparticles for effective dye degradation
95	Sanket Baliram Gavhale	Prof R A Darakhe	To Synthesis Chitosan Nanoparticle
96	Saurabh Manohar Aochar	Prof A G Titare	Review on herbal potential for treatment of osteoporosis.
97	Sejal Rajendra vyas	Prof L P Joge	Presentation and project report submission
98	Shital Mahadeo Sonune	Prof K P Gaikwad	Cow urine therapy for Cancer
99	Shital Sahchrao kanade	Prof R A Darakhe	To synthesis and evaluation of Nelfinavir Myslate drug loaded nanoparticles
100	Shivani Manohar Khade	Prof M B Narkhede	Zebrafish as a model for diabetic retinopathy
101	Shoeb Khan Firoz Khan	Prof R P Gandhi	Green synthesis of silver nanoparticles from Giloy plant
102	Shruti Sanjay Mehasare	Prof C S Chandak	MEDICATED POLYHERBAL HAIR GEL FORMULATION
103	Shubham Kaduba Rokade	Prof R A Darakhe	Design and synthesis of Zinc oxide nanoparticles for effective dye degradation.
104	shubham santosh khairode	Prof C S Chandak	medicated herbal soap
105	Siddesh Gajanan Harne	Prof R A Darakhe	DESIGN AND SYNTHESIS OF ZINC OXIDE NANOPARTICLES FOR EFFECTIVE DYE DEGRADATION
106	Smita Madhav Warade	Dr G D Mehre	Medicated Herbal Moisturizing Cream
107	Somesh Girish Ghodeswar	Prof N B Chopde	FORMULATION AND EVALUATION OF IMMEDIATE RELEASE TABLET OF TINIDAZOLE
108	SOPAN DEVIDAS BORHADE	Prof R A Darakhe	TO SYNTHESIS AND EVALUATION OF NELFINAVIR MESYLETE LODDED CHITOSAN NANO-PARTICLE



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114	Vaibhav Pandurang Shinde	Prof A G Titare	Review On Monkey Pox
115	Vaibhav Raju Darekar	Prof N B Choppe	Project
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118	Vaishnavi Gajanan Lokhande	Prof K P Gaikwad	Cow urine therapy for cancer
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120	Vinay Prakash Budukale	Dr V S Adhao	Development and Validation of HPLC method for determination of antiviral drug.
121	Vinod dahije	Prof A M Rathi	Polyherbal anti-dandruff shampoo
122	YASH SANTOSH RAUT	Prof N B Choppe	FORMULATION AND EVALUATION OF IMMEDIATE RELEASE TABLET OF TINIDAZOLE
123	Yogesh Baban Ugle	Prof A G Titare	Monkeypox



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This is to certify that the investigations described in this thesis entitled *synthesis and characterization of poly- α -hydroxy acid nanostructure for the delivery of anticancer agent* is submitted for the partial fulfillment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics** in the faculty of **Science and Technology (Pharmaceutical Sciences)** of **Sant Gadge Baba Amravati University, Amravati**, was carried out in the laboratories of Department of Pharmaceutics, of **Dr. Rajendra Gode College of Pharmacy, Malkapur**, by *Mr. Gajanan Ramesh Rathod* under the guidance and supervision of *Prof. (Dr.) P. K. Deshmukh*.

This thesis is now ready for examination

Date : 30/05/2023

Place: Malkapur




Prof. Dr. P. K. Deshmukh
Head,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Rutana

CERTIFICATE


This is to certify that the investigations described in this thesis entitled "*Development of surface grafted polymeric micro nano particle by hot melt extrusion coprocess technology for delivery of poorly soluble drug*" is submitted for the partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmaceutics in the faculty of Science and Technology (Pharmaceutical Sciences) of Sant Gadge Baba Amravati University, Amravati, was carried out in the laboratories of Department of Pharmaceutics, of Dr. Rajendra Gode College of Pharmacy, Malkapur, by *Mr. Shubham Bajirao Ahir* under the guidance and supervision of *Prof. (Dr.) M.P More*

This thesis is now ready for examination

Date: 30/05/2023

Place: Malkapur




Prof. Dr. P.K. Deshmukh
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldana.

Prof. Dr. Prashant Deshmukh
Principal
Dr. Rajendra Gode College Of Pharmacy,
Malkapur
Dist -Buldhana

CERTIFICATE

This is to certify that the investigation described in this dissertation entitled, "**Formulation And Evaluation of Mouth Dissolving Tablet of NSAIDS Drug**", submitted for the partial fulfilment of the requirement for the degree **Master of Pharmacy In Pharmaceutics** in the faculty of **Medicine (Pharmaceutical Science)** of Sant Gadge Baba University, Amravati was carried out in the laboratories of department of pharmaceutics, of Dr. Rajendra Gode college of Pharmacy, Malkapur, by **Miss. Sharda P. Shahane** under the guidance and supervision of **Associate Professor Mukesh Babhulkar**

The dissertation ready for examination.

Date: 30/05/2023

Place: Malkapur

Prof. Dr. Prashant Deshmukh

Principal
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana.



CERTIFICATE

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This thesis is now ready for examination

Date: 30/05/2023

Place: Malkapur



[Signature]
Prof. Dr. P.K. Deshmukh
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldana.



Prof.(Dr.)P.K.Deshmukh

Principal,

Dr.Rajendra Gode College of Pharmacy,
Malkapur,

Dist.-Buldhana (M.S.) 443101

CERTIFICATE

This is to certify that the investigations described in this dissertation entitled "**SOLUBILITY ENHANCEMENT OF BCS CLASS-II DRUG BY USING SOLID DISPERSION METHOD**" submitted for the award of the degree of **Master of Pharmacy in Pharmaceutics** under the faculty of Science and Technology of Sant Gadge Baba Amravati University, Amravati, was carried out in the laboratories of Department of Pharmaceutics, of Dr.Rajendra Gode College of Pharmacy, Malkapur, by **Mr. Aditya N. Vaidya** under the guidance and supervision of **Prof. R. R. Popat**. This dissertation is now ready for examination.



Date : 30/05/23

Place: Malkapur



Prof.(Dr.) P.K.Deshmukh

Principal,
Dr.Rajendra Gode College
of Pharmacy, Malkapur.

Prof. (Dr) Dr. Prashant Deshmukh

Principal

Dr. Rajendra Gode College Of Pharmacy,

Malkapur

Dist. -Buldhana

CERTIFICATE


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The dissertation ready for examination.

Date: 2 / 5 / 2023

Place: Malkapur




Prof. Dr. Prashant Deshmukh
Principal

CERTIFICATE


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Date: 12/05/2023

Place: Malkapur




Prof. Dr. P. K. Deshmukh

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur
Dist. Buldana.



Prof. Dr. P. K. Deshmukh

Principal

Dr. Rajendra Gode College of Pharmacy,
Malkapur

Dist- Buldhana, Maharashtra 443101



This is to certify that the investigations described in this thesis entitled "Enhancement of solubility and Dissolution rate of BCS class II drug by **Liquisolid Technique**", submitted for the partial fulfillment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics** in the faculty of **Science and Technology** of the Sant Gadge Baba Amravati University, Amravati, was carried out in the laboratories of the Department of Pharmaceutics, of Dr. Rajendra Gode College of Pharmacy, Malkapur, by **Mr. Pratik P. Jadhav** under the guidance of **Prof. R. R. Thenge**.

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Date: 30/05/2023

Place: Malkapur.



Prof. Dr. P. K. Deshmukh

Principal

Dr. Rajendra Gode College of Pharmacy,

Malkapur
Principal,
Dr. Rajendra Gode College
of Pharmacy Malkapur.

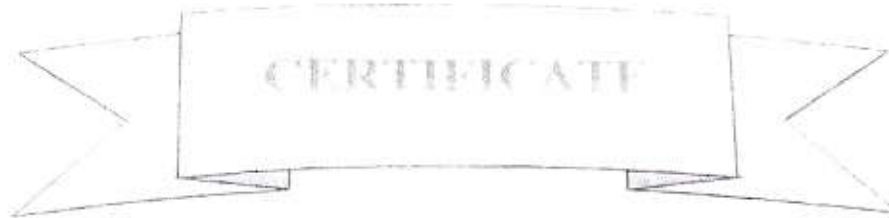


Prof. Dr. P. K. Deshmukh

Principal

Dr. Rajendra Gode College of Pharmacy,
Malkapur

Dist- Buldhana, Maharashtra 443101




This is to certify that the investigations described in this thesis entitled "Enhancement of solubility and Dissolution rate of BCS class II drug by *Liquisolid Technique*", submitted for the partial fulfillment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics** in the faculty of **Science and Technology** of the Sant Gadge Baba Amravati University, Amravati, was carried out in the laboratories of the Department of Pharmaceutics, of Dr. Rajendra Gode College of Pharmacy, Malkapur, by Mr. **Pratik P. Jadhav** under the guidance of **Prof. R. R. Thenge**.

This thesis is now ready for examination.

Date: 30/05/2023

Place: Malkapur.


Prof. Dr. P. K. Deshmukh

Principal

Dr. Rajendra Gode College of Pharmacy,

Malkapur

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur.
Dist Buldana.



Prof. Dr. V. N. Shrikhande
Principal,
Dr. Rajendra Gode College of Pharmacy,
Malkapur, Dist - Buldhana (M.S.) 443 101


CERTIFICATE

This is to certify the investigation described in this dissertation entitled "Development and Validation of UPLC Assay Method for Estimation of Tadalafil in Pharmaceutical Dosage form" submitted for the partial fulfillment of the requirement for the degree of Master of Pharmacy in the faculty of Quality Assurance of Sant Gadge Baba Amravati University, Amravati, was carried out in the laboratories of Department of Quality Assurance, of Dr. Rajendra Gode College of Pharmacy, Malkapur, by Mr. Dhiraj Diwakar Patil under my guidance of and supervision of Prof. Dr. V. S. Adhao. This dissertation is now ready for examination.

Date: 12/5/2023

Place: Malkapur




Prof. Dr. V. N. Shrikhande
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldhana.



Prof. Dr. V. N. Shrikhande
Principal,
Dr. Rajendra Gode College of Pharmacy,
Malkapur, Dist - Buldhana (M.S.) 443 101


CERTIFICATE

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Assurance of Sant Gadge Baba Amravati University, Amravati, was carried out in
the laboratories of Department of Quality Assurance, of Dr. Rajendra Gode
College of Pharmacy, Malkapur, by Mr. Dhiraj Diwakar Patil under my
guidance of and supervision of Prof. Dr. V. S. Adhao. This dissertation is now
ready for examination.

Date: 11 / 05 / 2023

Place: Malkapur




Prof. Dr. V. N. Shrikhande
Principal,
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldhana.

Dr. P. K. Deshmukh
M.Pharm, Ph.D

Principal,
Dr. Rajendra Gode College of
Pharmacy, Malkapur,
Dist- Buldhana (M.S.) 443101


CERTIFICATE

This is to certify that the investigations described in this thesis entitled "*Development And Validation of Stability Indicating RP-HPLC Method For Estimation of Potassium Channal Blocker From Tablet Dosage Form*" is submitted in the partial fulfillment of requirement for the degree of *Master of Pharmacy in Quality Assurance* in the faculty of *Science & Technology (Pharmaceutical Sciences)* of Sant Gadge Baba Amravati University, Amravati. This research work was carried out in the laboratories of department of *Quality Assurance*, Dr Rajendra Gode College of Pharmacy, Malkapur, by *Mr. Rahul Ashok Dawale* and under guidance and supervision of *Prof. Jaya P. Ambhore*

This thesis is now ready for examination

Date : 30/05/2022
Place : Malkapur




Dr. P. K. Deshmukh
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldhana.

CERTIFICATE


This is to certify that the investigations described in this thesis entitled "*Stability indicating analytical method development and validation for antiviral drug formulation by RP-HPLC*" is submitted for the partial fulfillment of the requirement for the degree of Master of Pharmacy in Quality assurance in the faculty of Science and Technology (Pharmaceutical Sciences) of Sant Gadge Baba Amravati University, Amravati, was carried out in the laboratories of Department of Quality assurance, of Dr. Rajendra Gode College of Pharmacy, Malkapur, by *Mr. Vaibhav Gajanan Akhand* under the guidance and supervision of *Prof. Vinayak M. Shejol*.

This thesis is now ready for examination

Date: 30/5/2023

Place: Malkapur




Prof. Dr. P. K. Deshmukh
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur.
Dist. Buldana.

CERTIFICATE

This is to certify that the investigations described in this thesis entitled *Development and Validation of Stability Indicating HPLC Method for Determination of Antiviral Drug* is submitted for the partial fulfillment of the requirement for the degree of Master of Pharmacy in Quality assurance in the faculty of Science and Technology (Pharmaceutical Sciences) of Sant Gadge Baba Amravati University, Amravati, was carried out in the laboratories of Department of Quality assurance, of Dr. Rajendra Gode College of Pharmacy, Malkapur, by *Mr. Shubham Shiram Lakde* under the guidance and supervision of DR. V. S. Adhao.

This thesis is now ready for examination

Date: 30/05/2023

Place: Malkapur




Prof. Dr. P. K. Deshmukh
Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur

Dr. P. K. Deshmukh
M.Pharm, Ph.D

Principal,
Dr. Rajendra Gode College of
Pharmacy, Malkapur,
Dist- Buldhana (M.S.) 443101

CERTIFICATE

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This thesis is now ready for examination

Date : 30/05/2022

Place : Malkapur



Dr. P. K. Deshmukh

Principal,
Dr. Rajendra Gode College
of Pharmacy, Malkapur,
Dist. Buldhana.

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A REVIEW ON QUALITY BASED DESIGN (QBD)

¹Mr. Arpit Rajaram Suralkar, ²Dr. Vaibhav Adhao


¹Student of Master of pharmacy ²Academic dean

¹Quality Assurance and Quality Control

¹Dr. Rajendra Gode College of Pharmacy Malkapur, India

Abstract : In this paper, Associate in Nursing application of Quality intentionally (QbD) ideas to the event of a stability indicating HPLC methodology for a fancy pain management drug product containing drug substance, 2 preservatives, and their degradants is represented. The QbD approach consisted of (i) developing a full understanding of the meant purpose, (ii) developing prognosticative solutions, (iii) coming up with a substantive system suitability answer that helps to spot failure modes, and (iv) following style of experiments (DOE) approach. The beginning methodology lacked any resolution among drug degradant and preservative aerophilousdegradant peaks, and peaks for preservative and another drug degradant. The strategy improvement was accomplished victimisation Fusion AE™ software system (SMatrix Corporation, Eureka, CA) that follows a DOE approach. Column temperature ($50 \pm 5^\circ\text{C}$), mobile part buffer hydrogen ion concentration (2.9 ± 0.2), commercialism acetonitrile (ACN, $2 \pm 1\%$), and initial hold time (2.5, 5, or ten min) of the HPLC methodology were at the same time studied to optimize separation of the unresolved peaks. The optimized HPLC conditions (column temperature of 50°C , buffer hydrogen ion concentration of three.1, three-d initial ACN with a pair of.5 min initial hold) resulted in absolutely resolved peaks within the 2 important pairs. The QbD based mostly methodology development helped in generating a style house and operative house with information of all methodology performance characteristics and limitations and victorious methodology strength inside the operative house. Quality intentionally (QbD), a current trend utilized to develop and optimise varied important pharmaceutical processes, could be a systematic approach supported the attribute that quality ought to be designed into the merchandise itself, not simply finish tested once manufacture. the current work details a step-wise application of QbD principles to optimise method parameters for production of particles with changed functionalities, victimisation dry particle coating technology. Initial risk assessment known speed, atmospheric pressure, time interval and batch size (independent factors) as having high-to-medium impact on the dry coating method. A style of experiments (DOE) victimisation MODDE software system utilized a D-optimal style to see the result of variations in these factors on known responses (content uniformity, dissolution rate, particle size and intensity of Fourier remodel infrared (FTIR) C = O spectrum). Results showed that batch size had the foremost important result on dissolution rate, particle size and FTIR; with a rise in batch size enhancing dissolution rate, decreasing particle size (depicting absence of coated particles) and increasing the FTIR intensity. whereas content uniformity was suffering from varied interaction terms, with speed and batch size having the very best negative result. best style house for manufacturing functionalised particles with best properties needed most atmospheric pressure (40psi), low batch size (6g), speed between 850 to fifteen00 rev and process times between 15 to hr.

INTRODUCTION-

Quality by Design (QbD) be a concept first outlined by quality expert Joseph M. Juran in publications, most notably Juran on Quality intentionally. Designing for quality and innovation is one among the three universal processes of the Juran Trilogy, during which Juran describes what's required to realize breakthroughs in new products, services, and processes. Juran believed that quality might be planned, which most quality crises and problems relate to the way during which quality was planned. While Quality intentionally principles are wont to advance product and process quality in industry, and particularly the automotive industry, they need also been adopted by the U.S. Food and Drug Administration (FDA).


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eCTD SUBMISSION IN EUROPE: A COMPREHENSIVE REVIEW OF REGULATORY REQUIREMENTS, BEST PRACTICES, AND FUTURE PERSPECTIVES REFERENCES

Shreyash P. Chaudhari*, Shraddha G. Telrandhe, Vaibhav adhao and Amol Taktode
Dr. Rajendra Gode College of Pharmacy Malkapur, Buldana, 443101

ABSTRACT:

The electronic Common Technical Document (eCTD) has brought about a significant transformation in the submission process for regulatory authorities in Europe. This comprehensive review paper aims to delve into the regulatory requirements, best practices, and future prospects of eCTD submission within the European context. The paper offers an overview of pertinent guidelines, regulations, and directives that have been issued by the European Medicines Agency (EMA) and the European Union (EU). Furthermore, it explores crucial factors to consider for a successful eCTD submission, including data integrity, document organization, and technical specifications. Lastly, the review concludes by examining emerging trends and offering insights into the future outlook of eCTD submission in Europe.

Keywords: eCTD, electronic Common Technical Document, regulatory affairs, marketing authorization applications, paper-based submissions, standardized format, review process, regulatory harmonization.

INTRODUCTION

Regulatory Affairs (RA) is a career focused on regulated industries such as pharmaceuticals, medical devices, veterinary medicine, cosmetics, and more. The primary objective of regulatory affairs professionals is to gather, analyse, document, and communicate risk assessments and benefits associated with healthcare products to regulatory authorities and the public worldwide. The fundamental requirements for all medications are maintaining high quality, safety, and efficacy.

The field of regulatory affairs is dynamic, involving both scientific and legal aspects of processes like New Drug Application (NDA), Investigated New Drug Application (INDA), and Market Authorization. Regulatory affairs professionals navigate the complex regulatory landscape to ensure compliance with relevant regulations and guidelines, as well as facilitate the approval and marketing of healthcare products.

BACKGROUND AND SIGNIFICANCE:

The introduction of electronic Common Technical Document (eCTD) submissions has revolutionized the regulatory affairs landscape in Europe. The traditional paper-based submission process for marketing authorization applications posed numerous challenges, including document loss, manual handling, and difficulties in information retrieval and sharing. The adoption of eCTD as a standardized electronic format has addressed these issues, providing a more efficient and streamlined approach to regulatory submissions. This format organizes the submission into modules, facilitating easier navigation and retrieval of information. The significance of eCTD lies in its ability to expedite the review process, reduce administrative burdens, and accelerate the availability of innovative medicines in the market. Additionally, eCTD promotes harmonization and standardization of regulatory processes across European Union member states and aligns with global trends in regulatory harmonization, facilitating global drug development and submission strategies.

PURPOSE OF THIS REVIEW ARTICLE

This comprehensive review paper explores the advancements and challenges associated with electronic Common Technical Document (eCTD) submissions in the European regulatory environment. It covers various aspects related to eCTD submissions, including the format, benefits, and regulatory guidelines. The paper examines advancements in eCTD technology, such as enhanced features and improved document management systems. It addresses challenges such as data integrity, standardization, interoperability, and varying requirements across European Union (EU) member states. Strategies and solutions, such as global regulatory information systems, are discussed to address these challenges.



Superdisintegrants in Orally Administered Products of Pharmaceuticals: A Review

Snehal N. Dhoot*, Sharda P. Shahane, Kiran. P. Gaikwad, Leena P. Joge, Jaya P. Ambhore

Dr. Rajendra Gode College of Pharmacy, Malkapur, Buldhana, Maharashtra, India

ABSTRACT

Superdisintegrants are developed to improve the palatability in orally administered products and to advancing the development of various formulations with increase performance and acceptability. Superdisintegrants are used to revise the potency of solid dosage form. This is accomplish by decreasing the disintegration time which in turn improvement the drug dissolution rate, Diverse categories of Superdisintegrants such as synthetic, semi synthetic, natural and cross-processed blend etc. The present study comprises the various kinds of Superdisintegrants which are being used in formulations to provide the safer effective drug delivery with patient's compliance.

KEYWORDS: Orally administered products; Superdisintegrants; potency; palatability

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INTRODUCTION

On analyzing the behavior of disintegration time in the oral cavity as well as wetting time by surface free energy we came to know, that for a faster wetting a molecule should have high polar component of surface free energy and the agents which meet these special requirements are called as Superdisintegrants [1]

Superdisintegrants are those substances, which facilitate the faster disintegration with smaller quantity in contrast to disintegrants. The disintegration of dosage forms are depends upon various physical factors of disintegrants/Superdisintegrants which are as follow:

1. Percentage of disintegrants present in the formulation
2. Proportion of disintegrants used
3. Compatibility with other excipients.
4. Presence of surfactant.
5. Hardness of the tablets.
6. Nature of Drug substances
7. Mixing and types of addition. [2,3]

Superdisintegrants are added version of super-absorbing materials with tailor-made swelling properties. These materials are not planned to absorb significant amounts of water or aqueous fluids, but planned to swell very fast. Superdisintegrants are used as a structural weakener for the disintegrable solid dosage forms. They are physically dispersed within the matrix of the dosage form and will expand when the dosage form is exposed to the wet environment. [4]. These newer substances are more effective at lower concentrations with greater disintegrating efficiency and mechanical strength. [5] Superdisintegrants are generally used at a low level in the solid dosage form, typically 1 - 10 % by weight relative to the total weight of the dosage unit. [6] Their particles are generally small and porous, which allow for rapid tablet disintegration in the mouth without an objectionable mouth-feel from either large particles or gelling. The particles are also compressible which improves tablet hardness and its friability. [4] Effective Superdisintegrants provide improved compressibility, compatibility and have no negative impact on the





(REVIEW ARTICLE)

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Review on *in vivo* and *in vitro* experimental model of anti-hypertensive agent

Shubham Purushottam Jaybhaye *, Samiksha Dnyaneshwar Ajmire, Sachin Ramesh Baringe, Mahesh Bhanudas Narkhede, Pavan Prabhakar Chinchole and Pratik Sunil Kapse

Department of Pharmacology, Dr. Rajendra Gode College of Pharmacy, Malkapur, Maharashtra, India 443101.

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Abstract

We aimed to evaluate the use of specific antihypertensive drugs and drug classes, as well as combinations in patients treated with 3 or more drugs classified as having or not resistant hypertension (RH), controlled or uncontrolled RH and true versus white-coat RH. From the Spanish ABPM Registry, we identified 21238 patients treated with 3 (14264) or more (6974) antihypertensive drugs of different classes. Among patients treated with 3 drugs we compared those with controlled (<140/90 mmHg; No RH) or uncontrolled (RH) office BP. In patients treated with 4 or more drugs we compared controlled versus uncontrolled RH. Hypertension continues to be an important public health concern because of its associated morbidity, mortality and economic impact on the society. It is a significant risk factor for cardiovascular, cerebrovascular and renal complications. It has been estimated that by 2025, 1.56 billion individuals will have hypertension. The increasing prevalence of hypertension and the continually increasing expense of its treatment influence the prescribing patterns among physicians and compliance to the treatment by the patients. A careful selection of drug therapy along with close follow-up offers the best prospect to reduce the burden of morbidity and mortality in hypertension. This article provides an overview of drugs in the management of patients with hypertension.

Keywords: Antihypertensive; Cerebrovascular; Renal Complications; ABPM Registry

1. Introduction


Hypertension is a major contributing factor for cardiovascular disease (CVD) and renal diseases that can increase the risks of comorbidities such as myocardial infarction, stroke and heart failure (HF) [1]. Studies have revealed that risk factors such as obesity and genetic factors can influence the occurrence and development of hypertension [2,3]. In addition, complicated regulatory networks, including the renin-angiotensin-aldosterone system (RAAS), the nervous system and arterial remodelling [4-6] also affect the progression of hypertension. Because blood pressure (BP) is difficult to control, the priority is finding drug targets to effectively control and manage BP in the hypertensive population. In this review, we primarily describe the classical and new drug targets used in hypertension therapy. Hypertension is the most common chronic disease in the world and produces substantial morbidity and mortality. However, in the majority of individuals, the precise cause of elevated blood pressure (BP) cannot be determined. Risk factors for primary (formerly called essential) hypertension include advancing age, obesity, high dietary NaCl consumption, and low dietary potassium intake, although these appear to contribute to, but not cause, hypertension. Renin-sodium profiling has been used to classify primary hypertension, suggesting that the phenotype is highly variable, but treatment remains largely empirical and influenced by race and comorbid disease. A number of hypertensive subtypes also exist, and although they may make up only a small fraction of the cases of hypertension, they can nonetheless be relatively common, given the broad prevalence of hypertension itself. Malignant hypertension is related to, but pathophysiological distinct from, primary hypertension, as is the syndrome of preeclampsia. Secondary causes may involve the renal vasculature, endocrine organs, and kidney and may be involved in up to 20% of cases of resistant

* Corresponding author: Shubham Purushottam Jaybhaye
Department of Pharmacology Dr. Rajendra Gode College of Pharmacy, Malkapur, Maharashtra, India 443101.



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(REVIEW ARTICLE)

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A critical review on the experimental model of animal for antigout drugs

Pratik Sunil Kapse*, Samiksha Nandkishor Dhote, Sachin Diliprao Rahate, Mahesh Bhanudas Narkhede and Pavan Prabhakar Chinchole

Department of Pharmacology, Dr. Rajendra Gode College of Pharmacy, Malkapur, Maharashtra, India 443101.

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Abstract

In this era where the pharmaceutical companies and products are hiking in its need and production it is inevitable to document the safety and toxicity along with the indications of the same. This is where the experimental study has a vital role to play. Experimental pharmacology is the science where the drug interaction with different receptors and target sites in living organism are explained. This article reviews about the different aspects of experimental pharmacology and its uses. Gout is an acute inflammatory disease characterized by the presence of uric acid crystals in the joint. This event promotes neutrophil infiltration and activation that leads to tissue damage. Mice received oral administration of BL or saline daily for 7 days and then were injected with MSU in the knee cavity. The present review aims to provide an updated overview on history, types, uses and mechanism of drug treatment for gout (hyperuricemia) with the detail review on information about experimental model of antigout drugs, their operating procedure, these agent works correct overproduction or under excretion of uric acid.

Keywords: Gout; Inflammatory disease; Experimental pharmacology

1. Introduction

Gout distinguished itself in the history of Homo sapiens since time immemorial. It appeared in medical records very early in the history of medical writing, and was also mentioned in the biographies of many famous names. It was depicted as the fate of a life of affluence as much as the challenge to a physician's skill, and truly it was. Modern ages witnessed remarkable progress in managing gout. More recently, thanks to quantum leaps in molecular biology, diagnostic modalities, and pharmacotherapy, we enjoy deeper understanding of the disease and a more sophisticated armamentarium. Gout is a systemic disease that results from the deposition of monosodium urate crystals (MSU) in tissues. Increased serum uric acid (SUA) above a specific threshold is a requirement for the formation of uric acid crystals. Despite the fact that hyperuricemia is the main pathogenic defect in gout, many people with hyperuricemia do not develop gout or even form UA crystals. In fact, only 5% of people with hyperuricemia above 9 mg/dL develop gout. Accordingly, it is thought that other factors such as genetic predisposition share in the incidence of gout [1],[2].

MSU crystals can be deposited in all tissues mainly in and around the joints forming tophi. Gout is mainly diagnosed by identification of the pathognomonic MSU crystals by joint fluid aspiration or in tophi aspirate. Early presentation of gout is an acute joint inflammation that is quickly relieved by NSAIDs or colchicine. Renal stones and tophi are late presentations. Lowering SUA levels below deposition threshold either by dietary modification and using serum uric acid lowering drugs is the main goal in management of gout. This results in dissolution of MSU crystals preventing further attacks [3], [4].

* Corresponding author: Pratik Sunil Kapse

Department of Pharmacology, Dr. Rajendra Gode College of Pharmacy, Malkapur, Maharashtra, India 443101.




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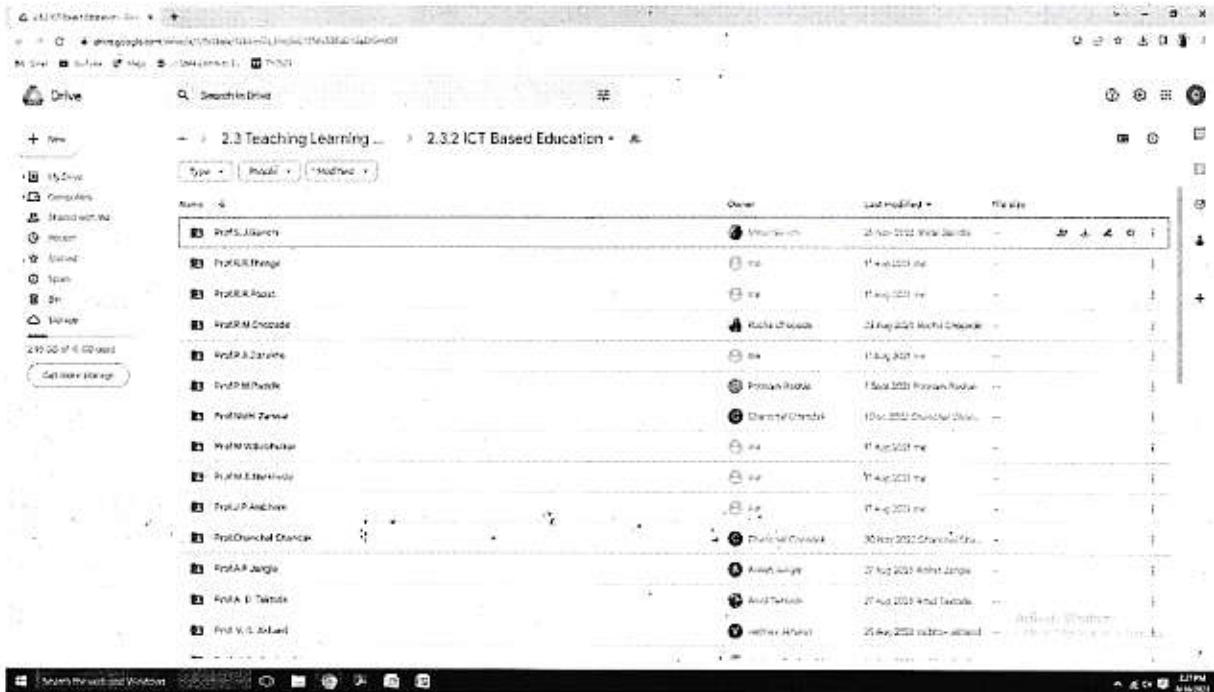
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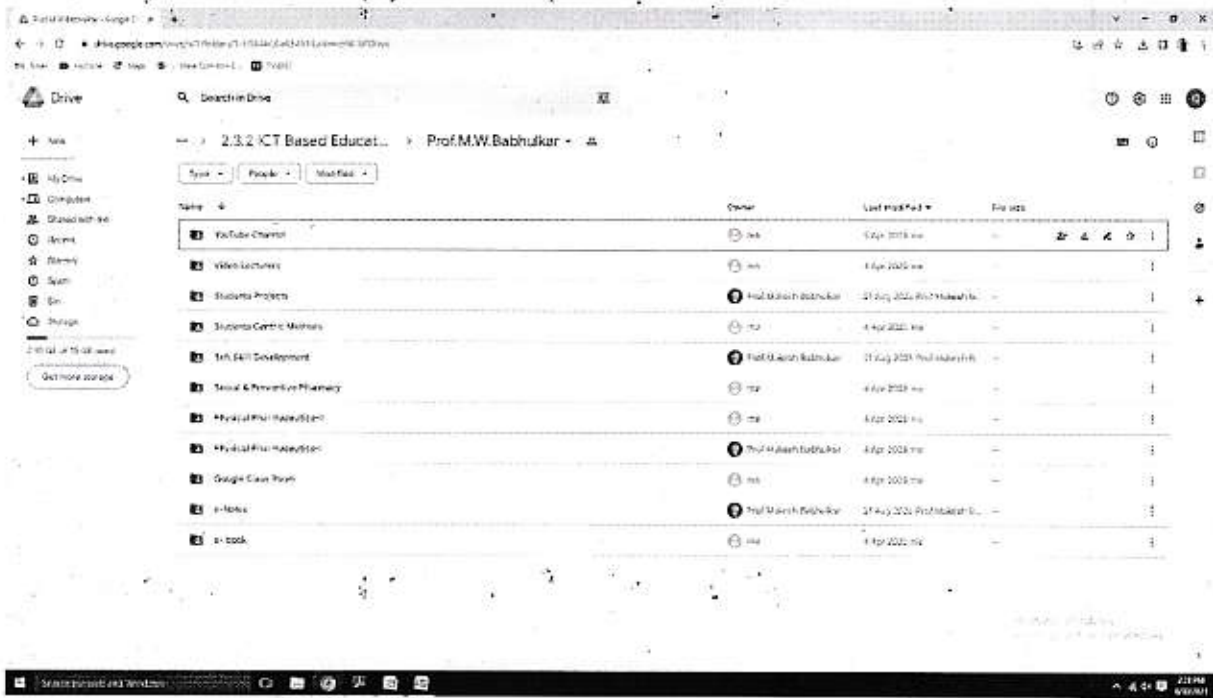
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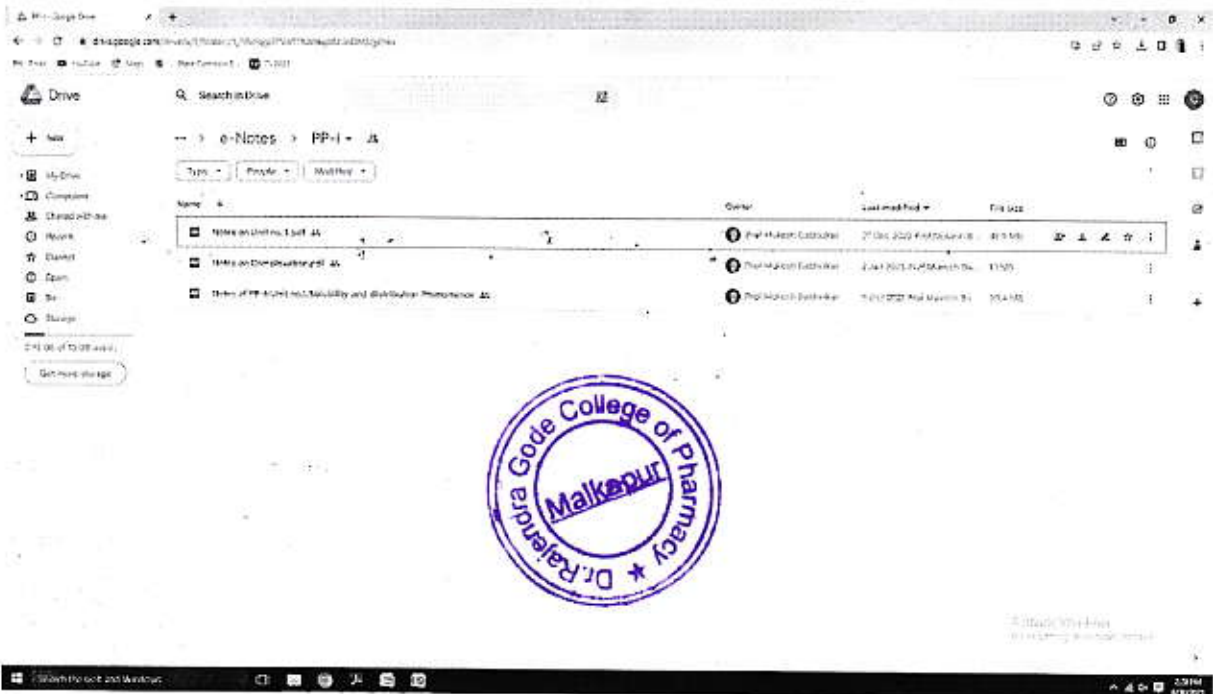
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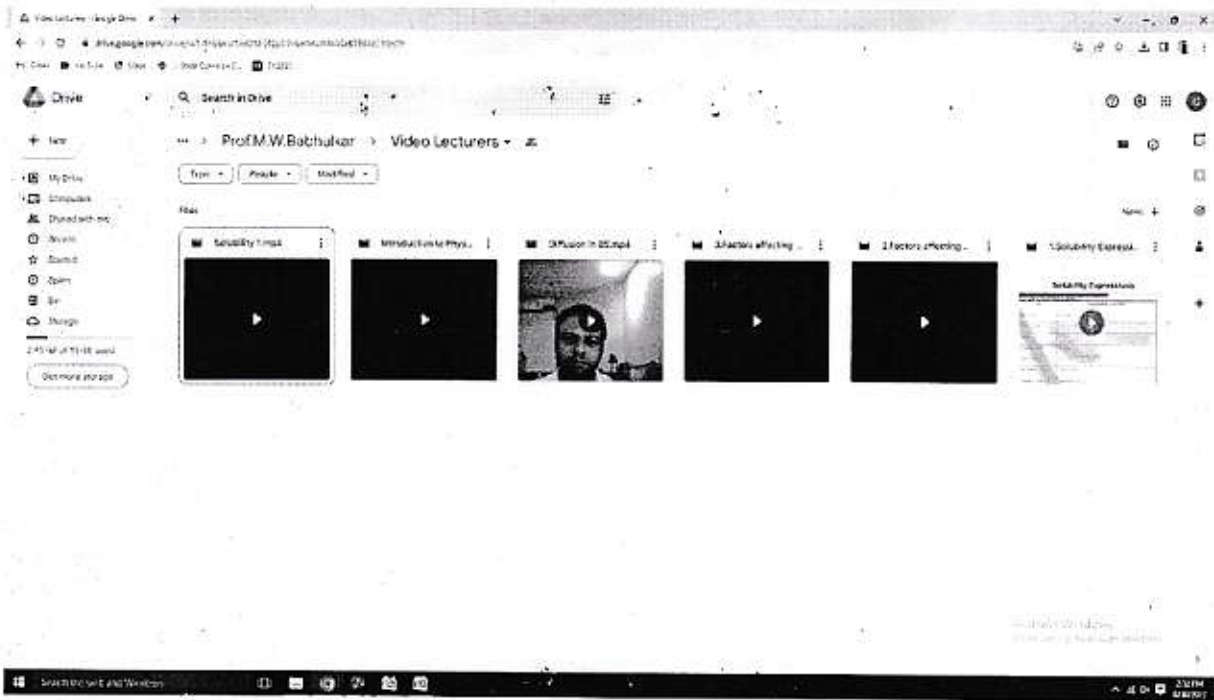
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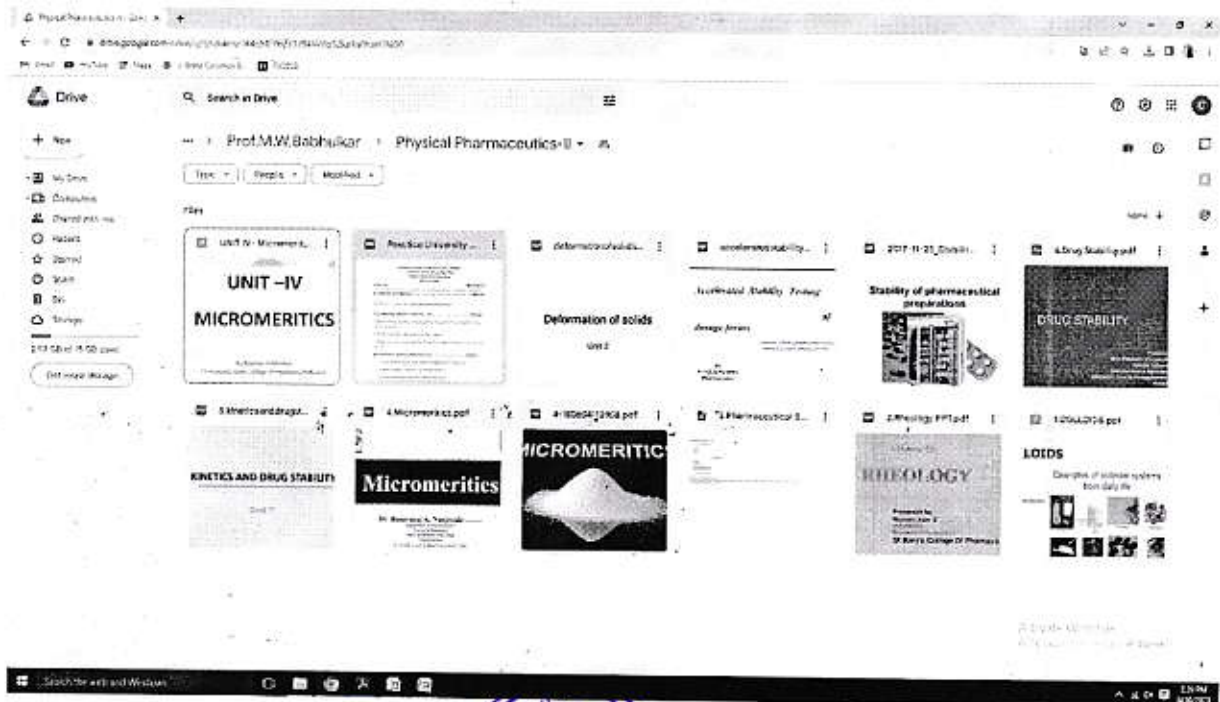
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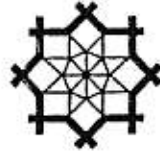


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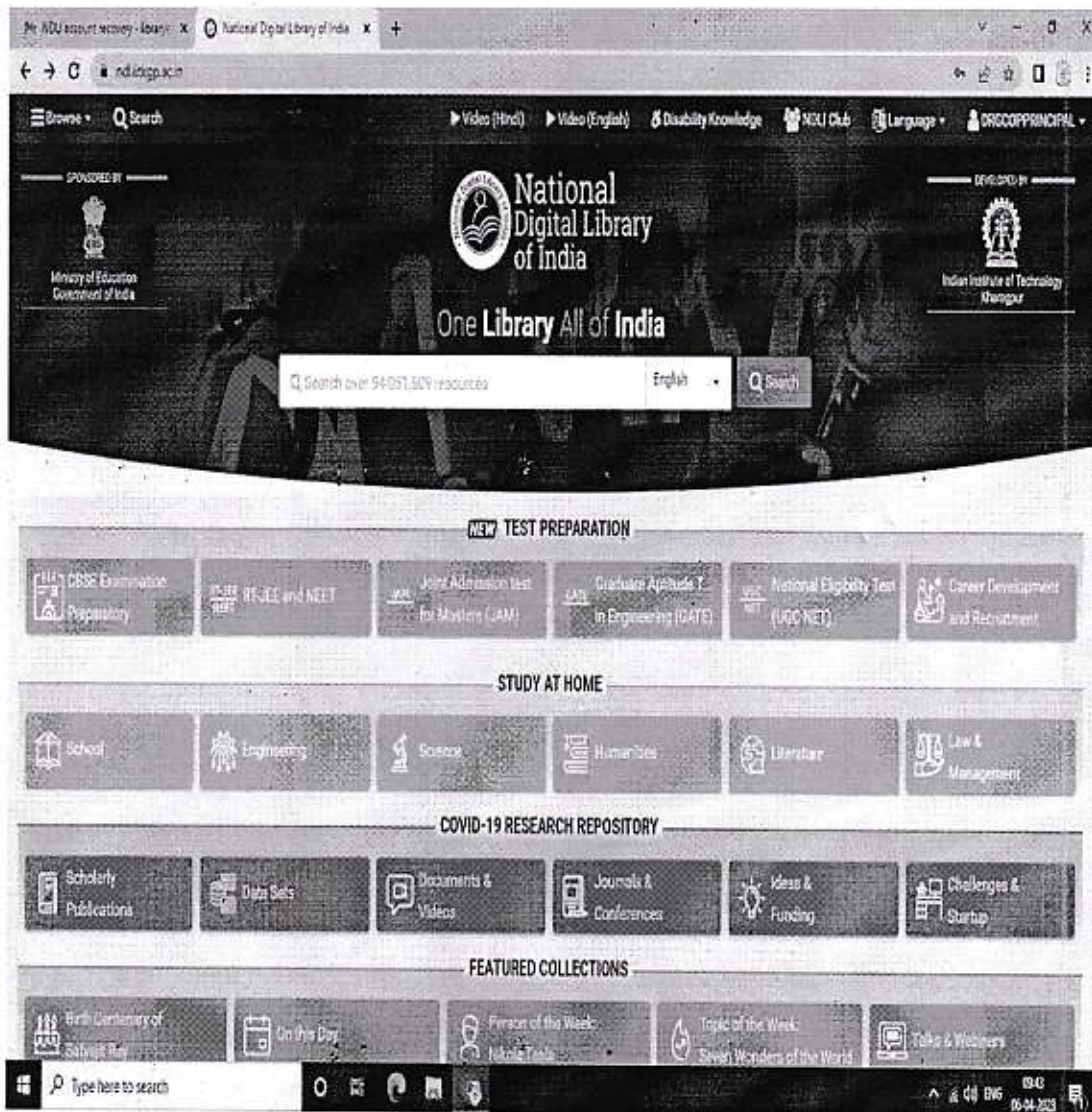
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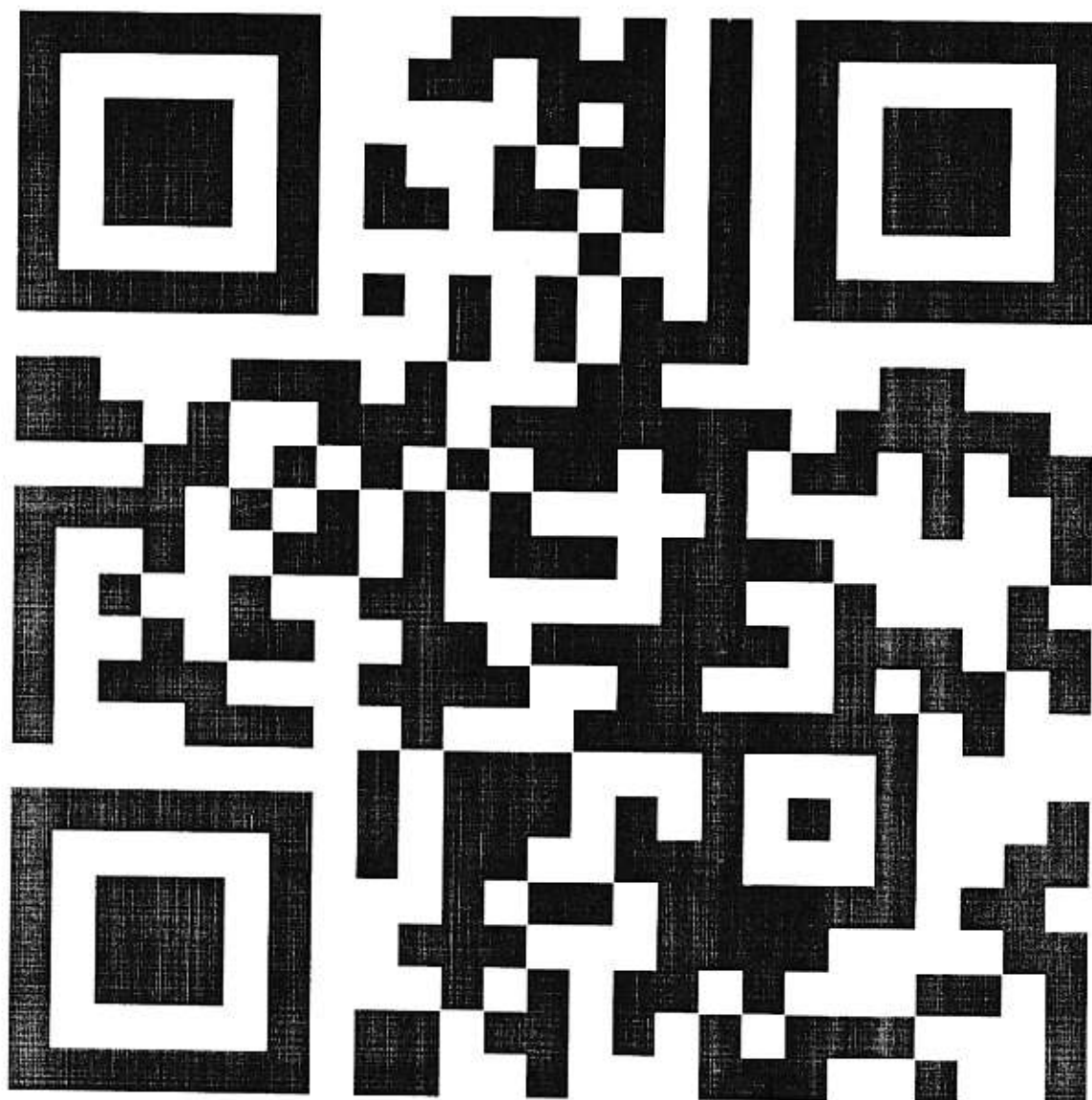
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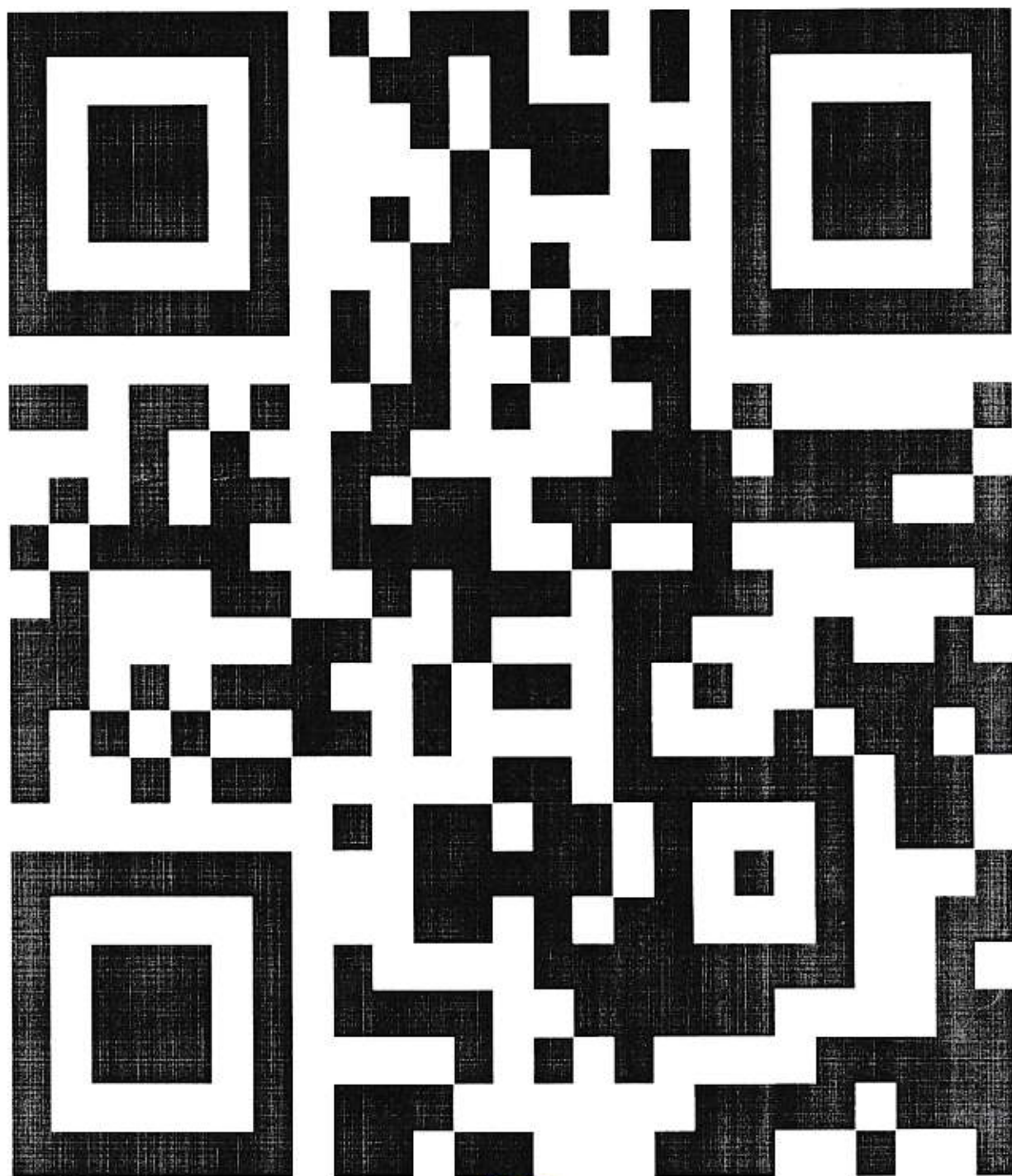
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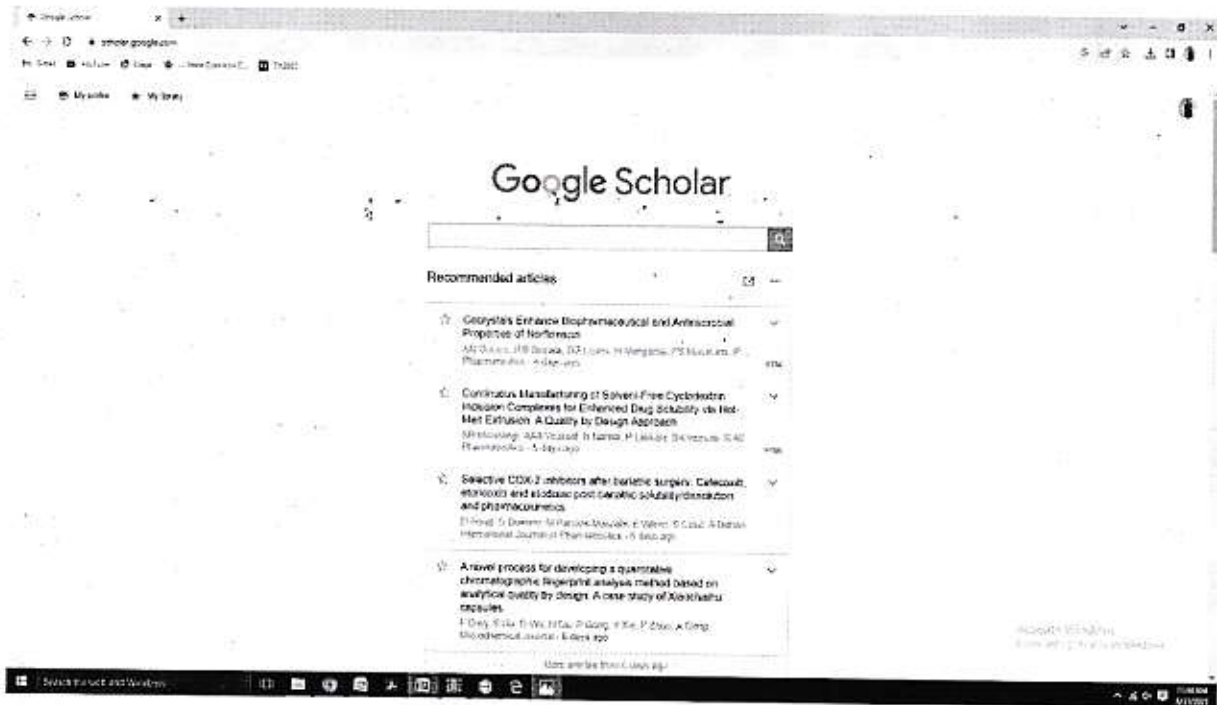


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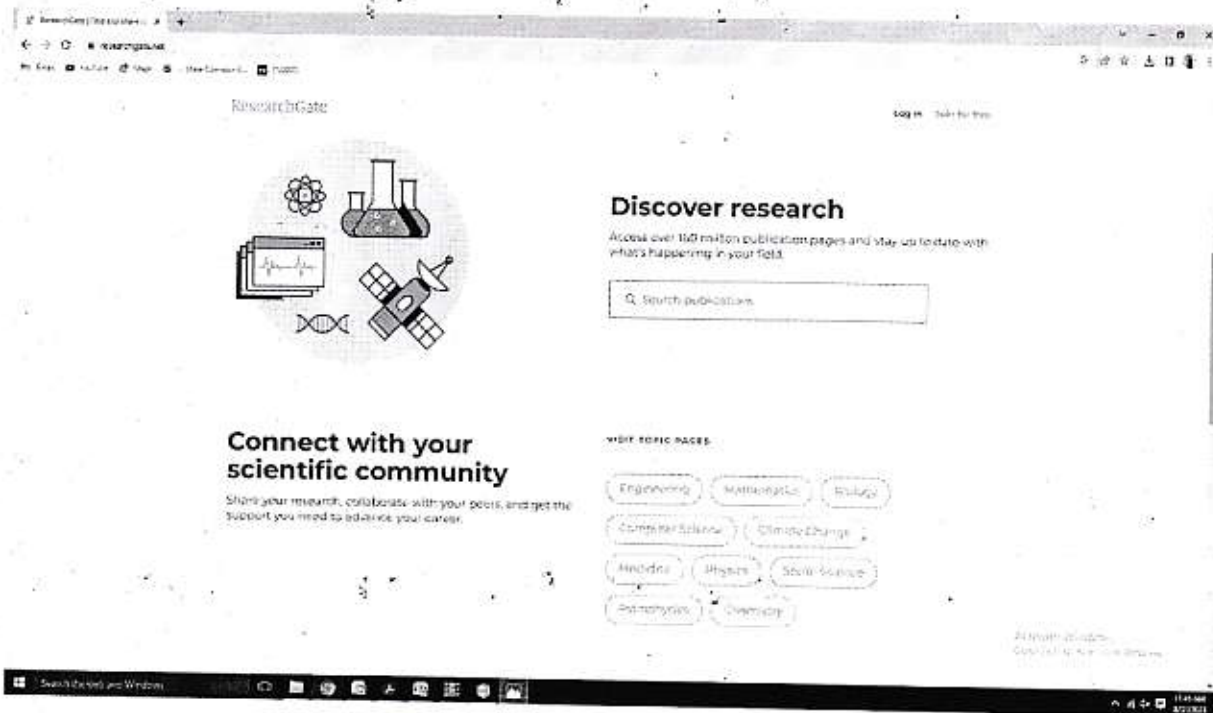
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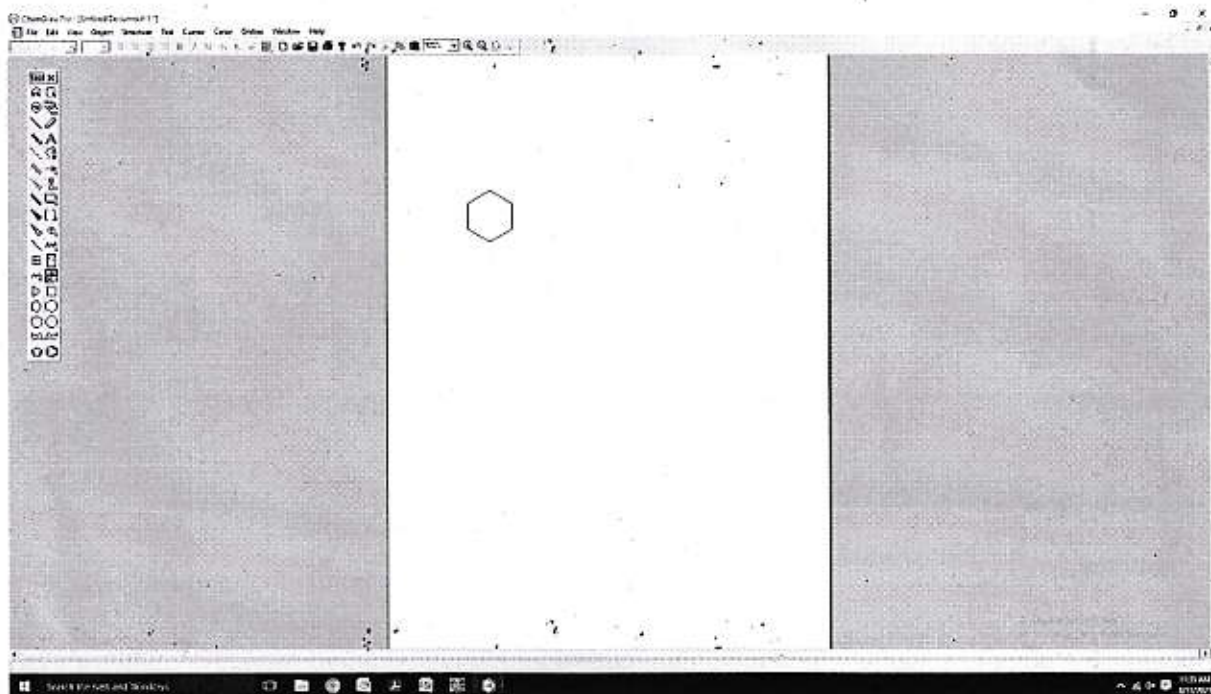
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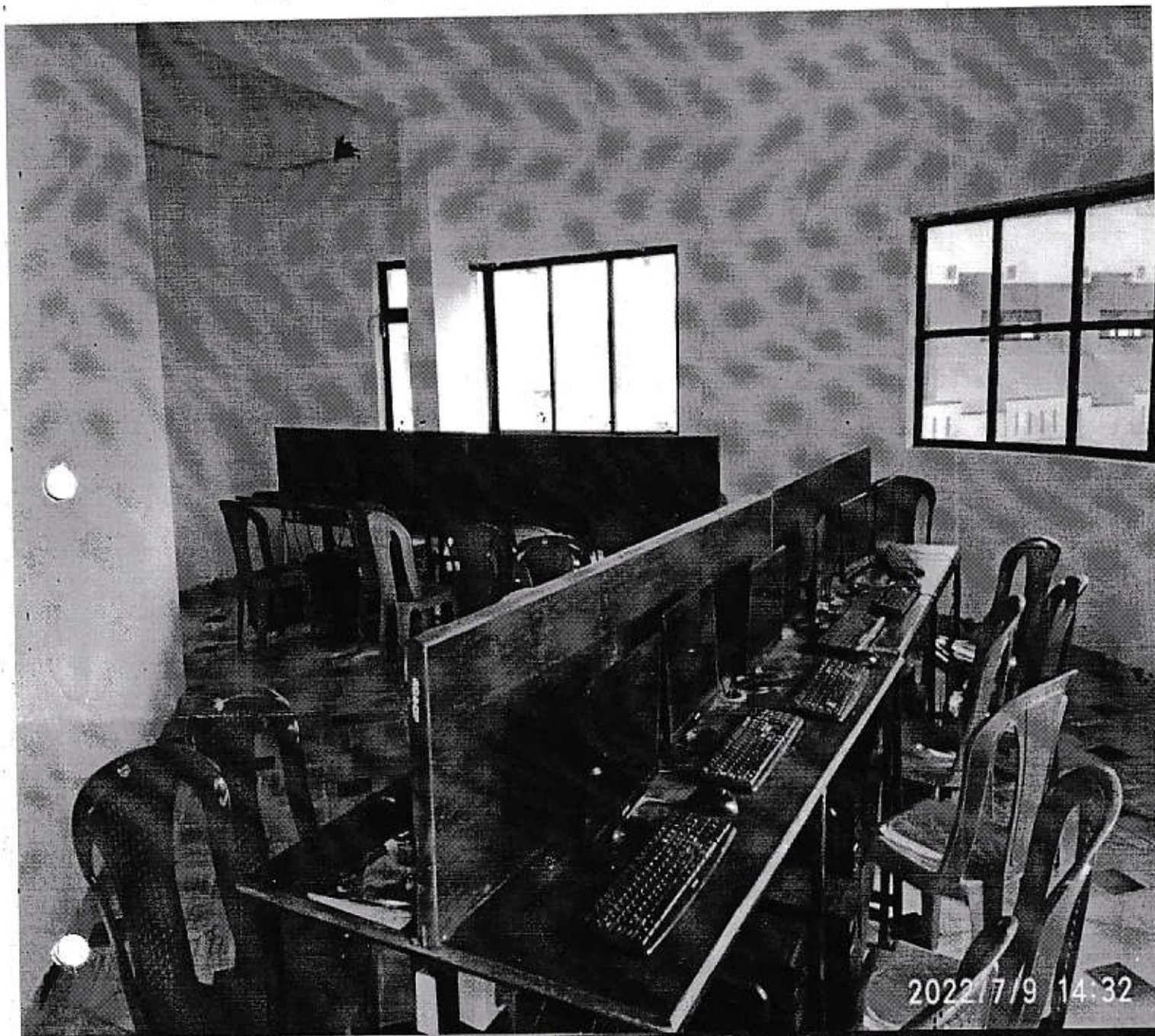


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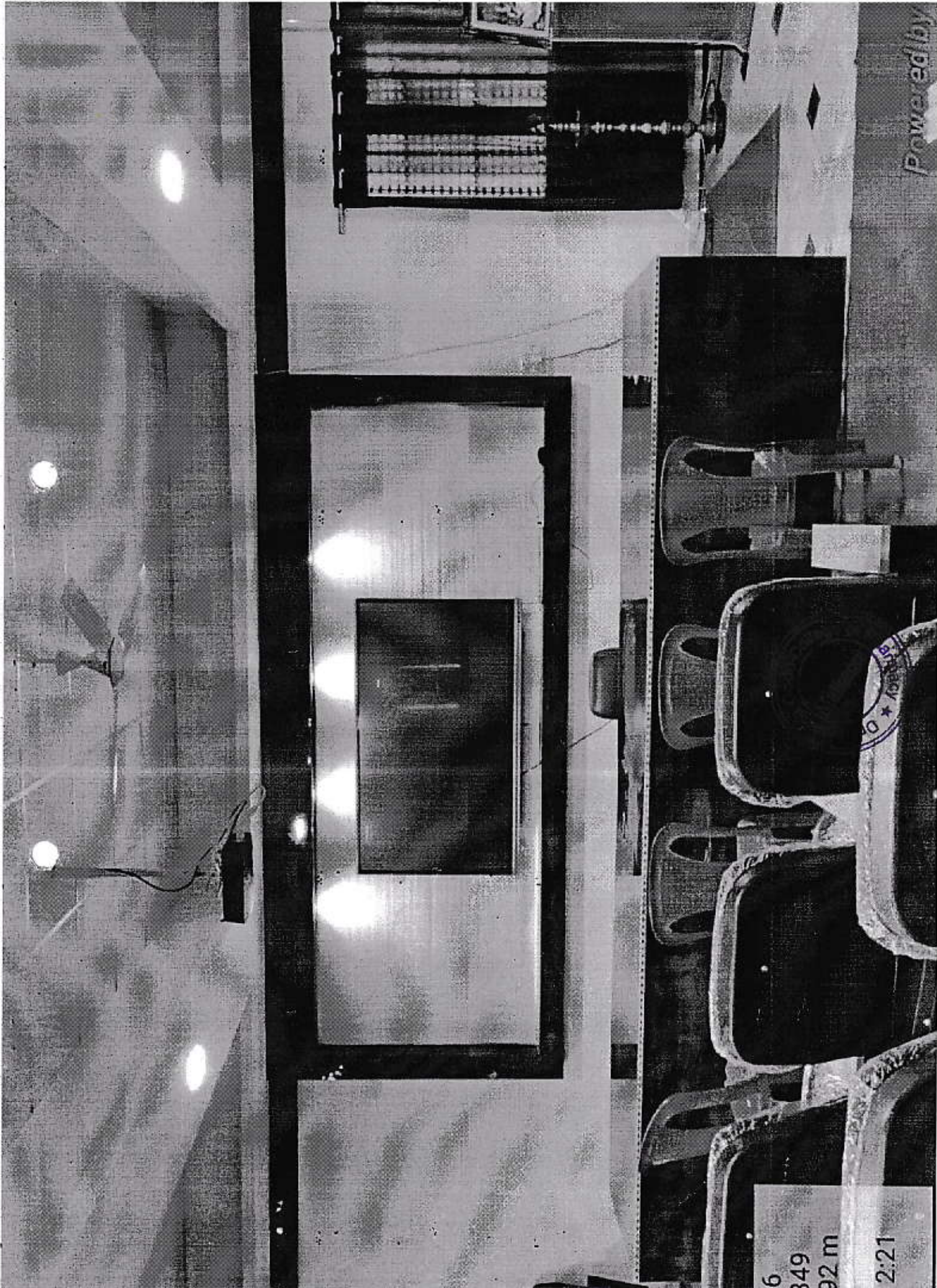
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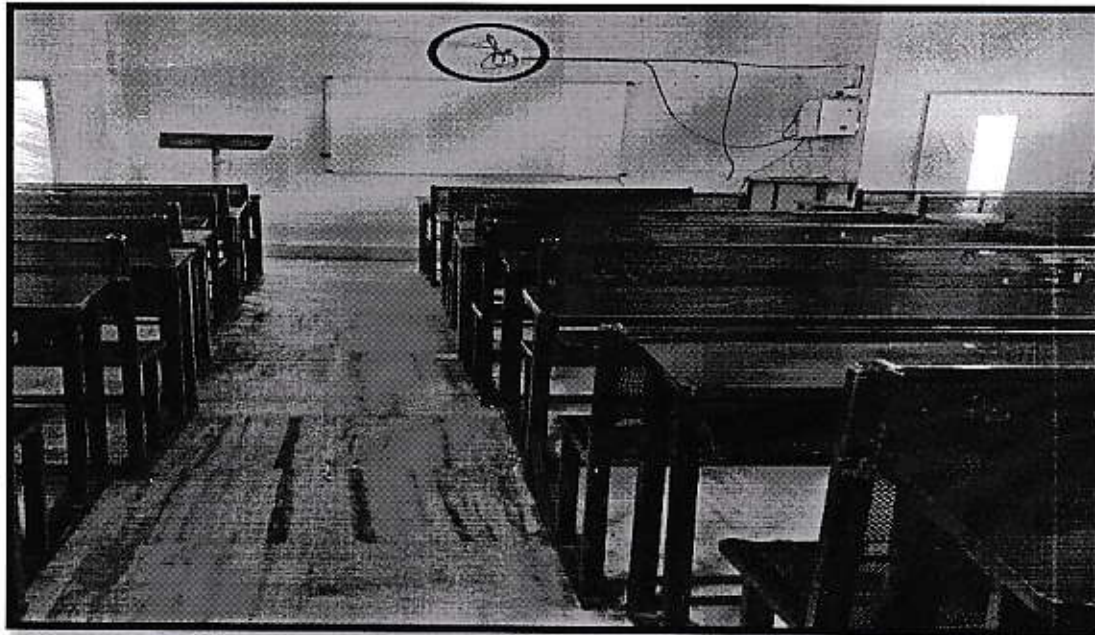
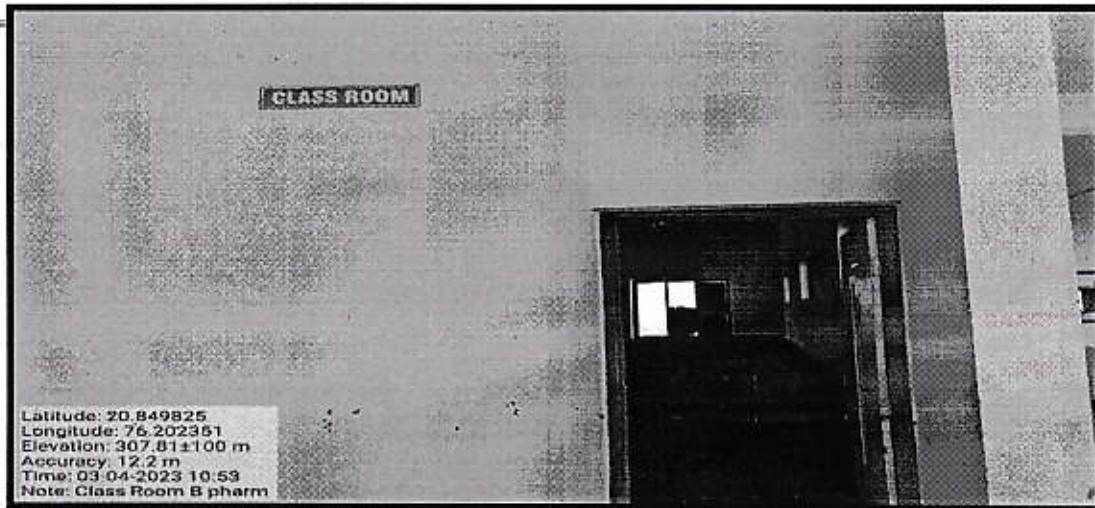
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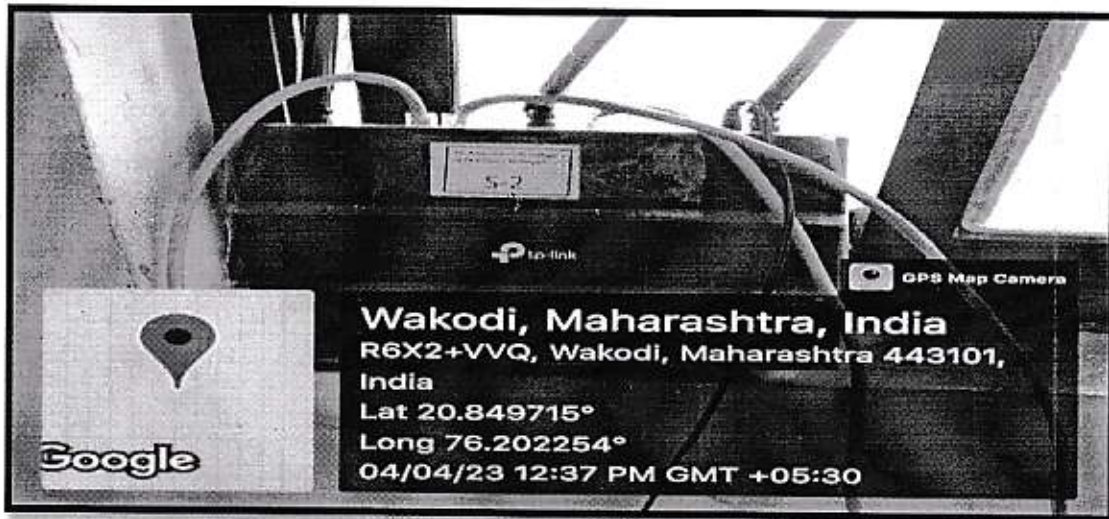
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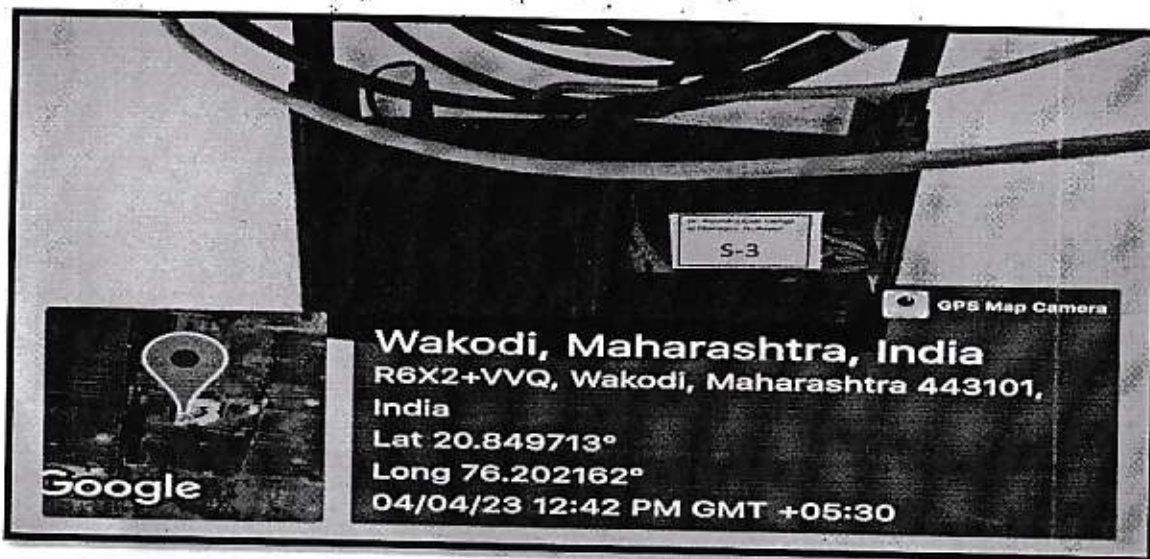
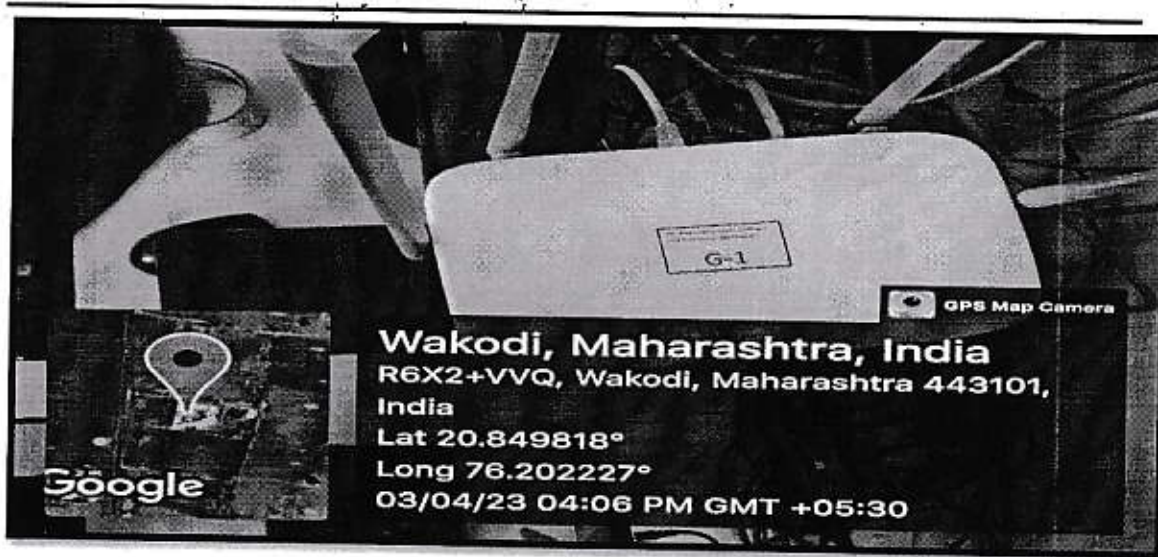
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