



ShreeyashPratishthan's

SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Approved by AICTE, New Delhi, Government of Maharashtra, DTE Mumbai (**DTE Code- 2572**) and
Affiliated to Dr. BabasahebAmbedkar Technological University, Lonere, & Maharashtra State Board of
Technical Education (MSBTE), (**MSBTE Code- 1838**) Mumbai

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and Conduct of continuous internal Assessment

INDEX (2019-20)

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Dr. Babasaheb Ambedkar Technological University, Lonere

Faculty of Pharmacy

Academic Calendar for A.Y. 2019-20 (Even Semester)

Activity	B. Pharm.	M. Pharm.	Pharm. D.
Commencement of Classes	6 th January 2020		
Declaration of Results (Odd Semester)	13 th Feb. 2020		
Improvement Sessional Examination	Within 10 days after declaration of university result		
First Periodic Test	2 nd to 7 th March 2020		
Last date for submitting Semester Exam forms (Regular)	30 March-3 rd April, 2020		
Last date for submitting Semester Exam forms with late fees	4 th April-8 th April, 2020		
Second Periodic Test	2 nd May to 8 th May 2020		----
Third Periodic Test	----	----	2 nd May to 8 th May 2020
End of Classes	30 th April 2020		
University Practical Examination	11 th to 19 th May 2020		
University Theory Examination (Repeater)	21 st to 1 st June 2020		
University Theory Examination (Regular)	2 nd to 13 th June 2020		
Last date for Submission of Thesis (M. Pharm only)	31 st July 2020		
Commencement of Classes for the Next Semester**	22 nd June 2020		
Declaration of Semester Exam Results	14 th July 2020		


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**SHREEYASH INSTITUTE OF PHARMACEUTICAL
EDUCATION & RESEARCH**
(D. Pharm & B. Pharm)



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Academic calendar 2019-20 (EVEN SEMESTER)

B. Pharm. (First, Second & Third year)


Sr. No.	Activity	Date(s)
1	Commencement of classes	Jan. 6, 2020
3	Cultural Event	Feb. 1 st Week, 2020
5	First Sessional Examination	March. 2-7, 2020
	Women's Day Celebration	March. 8, 2020
7	Last date for submitting theory exam form for semester examinations (without late fee)	March 30-April 3 rd , 2020
8	Last date for submitting theory exam form for semester examinations (with late fee)	April. 4-8, 2020
9	Second Sessional Examination (Theory)	May. 2-8, 2020
10	End of Classes	April. 30, 2020
11	End Semester Practical Examination	May. 11-19, 2020
12	End Semester Theory Examination (Repeater)	May 21-June 1, 2020
	End Semester Theory Examination (Regular)	June. 2-13, 2020
14	Commencement of Next Semester	June. 2, 2020
15	Declaration of Semester Exam Results	July. 14, 2020

List of holidays/ festivals

Sr. No.	Holidays/ festivals	Date
1	Republic day	Jan. 26, 2020
3	Chhatrapati Shivaji Maharaj Jayanti	Feb. 19, 2020
4	Dhulivandan	March. 10, 2020
5	Gudi padwa	March. 25, 2020
6	Ramnavmi	April. 2, 2020
7	Mahaveer Jayanti	April. 6, 2020
8	Good Friday	April. 10, 2020
9	Dr. Babasaheb Ambedkar Jayanti	April. 14, 2020
10	Ramzan Eid	May. 25, 2020
11	Maharashtra din	May. 1, 2020
12	Bodh Purnima	May. 7, 2020


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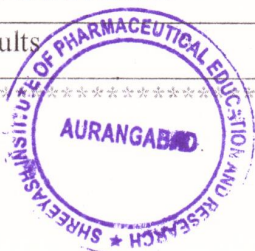

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Dr. Babasaheb Ambedkar Technological University, Lonere
Faculty of Pharmacy
Academic Calendar for A.Y. 2019-20 (Odd Semester)

Activity	B. Pharm.	M. Pharm.	Pharm. D.
Commencement of Classes (SY, TY B. Pharm. / SY M. Pharm. / SY Pharm. D.)	June 24, 2019		
Declaration of Results (Even Semester)	July 25, 2019		
Commencement of First year classes	Aug. 1, 2019		
Improvement Sessional Examination of Previous Year Subjects	July 29- Aug. 3, 2019		
Submission of synopsis to University	---	Before 31 st July	---
Scrutiny of Synopsis	---	Before 31 st August	---
First Periodic Test	Sept. 16- Sept. 21, 2019		
Last date for submitting Semester Exam forms (Regular)	Oct. 14-18, 2019		
Last date for submitting Semester Exam forms with late fees	Oct. 19-22, 2019		
Second Periodic Test	Nov. 4-9, 2019		Dec. 23-30, 2019
End of Classes (For B. Pharm. and M. Pharm. Courses only)	Nov. 15, 2019		
University Practical Examination (For B. Pharm. and M. Pharm. Courses only)	Nov. 18-26, 2019		
University Theory Examination (For B. Pharm. and M. Pharm. Courses only)	Nov. 28, 2019		
University Theory Examination (For Pharm. D. Repeater Students only)	Nov. 28, 2019		
Vacation to Faculty & Technical Staff*	To be added by the University		
Commencement of Classes for the Next Semester	Dec. 27, 2019		
Declaration of Semester Exam Results	Jan 25, 2020		


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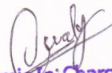
Academic calendar 2019-20 (ODD SEMESTER)

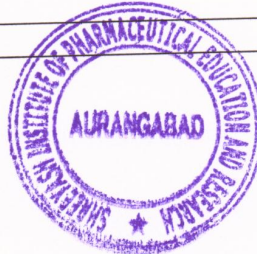
B. Pharm. (First, Second & Third year)


Sr. No.	Activity	Date(s)
1	Commencement of classes (SY, TY B. Pharm)	June. 24, 2019
2	Commencement of first year classes	Aug. 1, 2019
3	Induction Program	After commencement of classes
4	Teachers Day	Sept. 5, 2019
5	First Sessional examination	Sept. 16- Sept. 21, 2019
6	World Pharmacist Day	Sept. 25, 2019
7	Last date for submitting theory exam form for semester examinations (without late fee)	Oct. 14-18, 2019
8	Last date for submitting theory exam form for semester examinations (with late fee)	Oct. 19-22, 2019
9	Second Sessional Examination (Theory)	Nov. 4-9, 2019
10	End of Classes	Nov. 15, 2019
11	End Semester Practical Examination	Nov. 18-26, 2019
12	End semester theory Examination	Nov. 28, 2019
13	Vacation to Faculty and Technical Staff	To be added by the University
14	Commencement of next (Even) semester 2019-20	Dec. 27, 2019
15	Declaration of Semester Exam Results	Jan. 25, 2020

List of holidays/ festivals

Sr. No.	Holidays/ festivals	Date
1	Independence Day	Aug. 15, 2019
2	Parsi New year/Pateti	Aug. 17, 2019
3	Ganesh Chaturthi	Sep. 2, 2019
4	Moharram	Sep. 10, 2019
5	Mahatma Gandhi Jayanti	Oct. 2, 2019
6	Dessehra	Oct. 8, 2019
7	Maharashtra Legislative Assembly Election	Oct. 21, 2019
8	Diwali (Laxmi Puja)	Oct. 27, 2019
9	Diwali Balipratipada	Oct. 28, 2019


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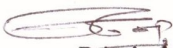
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Workload for Academic Year 2019-20 Even Semester

No.	Name of faculty	F.Y.B. PHARM		S.Y.B.PHARM		T.Y.B.PHARM		TOTAL
		Theory	Practical	Theory	Practical	Theory	Practical	
1	Dr. Ganesh Tapdiya							
2	Mr. Milind D Kamble					BP & PK (8)	P'col III 4	12
3	Ms. Rashmi Tambare			PP II 8	PP II 4x3=12			20
4	Ms. Sumaiya Khan	Biochem (6+2)=8	Biochem 4x2=8 POC I 4x1=4					20
5	Mrs. Madhavi Pawar					QA (6+2)-8	HDT Lab (4x3-12)	20
6	Ms. Shradhha Nalawade	EVS 4			PP II 4x2=8		HDT 4	16
7	Mrs. Vidya Magar	POC I (6+2)=8	POC I 4					12
8	Mr. Mahendra Khandare			POC III (6+2)=8				08
9	Ms. Vishakha Shelke			MC I (6+2)=8	MC I 4x3=12			18+2
10	Mrs. Gitanjali Patil					MC III (6+2)=8	MC III 4x3=12	20
11	Mrs. Minal Chaudhary	Patho (6+2)=8	HAP-II 4		P'col 4x2=8			20
12	Ms. Sneha Khandale			P'col I (6+2)=8	P'col 4x3=12			18+2
13	Mrs. Pallavi Bhosale					P'col III (6+2)=8	P'col III 4x3=12	18+2
14	Ms. Aliya Ansari	HAP II (6+2)=8	HAP 4x3=12					18+2
15	Mrs. Arundhati Deokar			P'cog (6+2)=8	P'cog 4x3=12			18+2
16	Mr. Amar Lomte				P'cog 4x2=8	HDT (6+2)=8		16
17	Mrs. Shubhada Kulkarni		Biochem 8			P'Biotech (6+2)=8		16
18	Mr. Kishan Jaiswal	CA (6)	CA (4x2)=8					14
19	Mr. Hrishikesh Rajput		POC I (4x2)=8					8
20	Ms. Vaishnavi Kuthe				MC I 4x2=8		MC III 4	12
21	Ms. Rajni Mali			P'col I (6+2)=8	P'col 4x3=12			18+2


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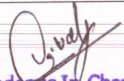


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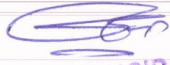
FORMAT NO. STC/PR08/F/01

Shreeyash Technical Campus
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH
WORK LOAD 2019-20 (ODD SEMISTER)

Sr. No.	Name of faculty	F.Y.B. PHARM SEM I		S.Y.B.PHARM SEM III		T.Y.B.PHARM SEM V		TOTAL
		Theory	Practical	Theory	Practical	Theory	Practical	
1	Dr. Ganesh Tapdiya							00
2	Mr. Milind D Kamble				PE (4X1=04)	IP-I (3+1=4)	IP -I (4X3=12)	20
3	Ms. Rashmi Tambare	PH-I (6+2=8)	PH-I (4x3=12)					18+2
4	Ms. Sumaiya Khan			PE (6+2=8)	PE (4X4=16)			20+2
5	Mrs. Madhavi Pawar		PH-I (4x1=04)		P'Micro (4X1=04)	IP-I (3+1=4)	IP -I 4X2=08	20
6	Ms. Shradhha Nalawade			PP- I (6+2)=08	PP-I (4X3=12)			18+2
7	Mrs. Vidya Magar		PA-I (4x1=04)	POC-II (3+1=04)	PP-I(4X2=8), POC-II (4X1=04)			20
8	Mr. Mahendra Khandare			POC-II (3+1=04)	POC-II (4X4=16)			20
9	Ms. Vishakha Shelke	PIC (6+2=8)	PIC (4x3=12)					18+2
10	Mrs. Gitanjali Patil		HAP-I (4x1=4), PIC (4x1=04)			M.Che -II (6+2=8)	P'col -II (4X1=04)	18+2
11	Mrs. Minal Chaudhary							


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WORK LOAD 2019-20 (ODD SEMISTER)

12	Mrs. Sneha Khandale							
13	Mrs. Pallavi Bhosale					P'col -II (6+2=8)	P'col -II 4X3=12	18+2
14	Ms. Vaishnavi Kuthe	HAP-I (6+2=8)	HAP-I (4x3=12)					18+2
15	Mrs. Arundhati Deokar					P'cog II (6+2=8)	P'cog II (4X3)=12	18+2
16	Mr. Amar Lomte					PJ (6+2=8)	P'cog- II (4 X 2=8), P'col -II (4X1=04)	18+2
17	Mrs. Shubhada Kulkarni			P'Micro (6+2=8)	P'Micro (4X4=16)			20+2
18	Mr. Rishikesh Rajput	PA-I (6+2=8)	PA-I (4x3=12)					18=2
19	Mr. Kishan Jaiswal	CSK 2+2=04	CSK (2x4=08)					12




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DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-A)

Class: B. Pharmacy First Year (Second Semester)

Academic Year: 2019-20

w.e.f.: 01/01/2020

TIME	DAY	Batch	(MORNING) PRACTICAL	01:00 pm to 01:45 pm	(AFTERNOON) THEORY			
			09:00MAF-1:00 pm		01:45-02:45	02:45-03:45	03:45-04:45	04:45-05:45
			Subject					
MON	A		Biochem[SZK](211)	R E C E S S	HAP-II [MAF] (303)	Biochem[SZK] (303)	UNIT TEST	HAP-II-Tutorial [MAF](303)
	B		POC-I [VKM]](209)		Biochem[SZK] (303)	TG HOUR	HAP-II [MAF] (303)	Biochem Tutorial [SZK] (303)
	C		←————→		Biochem[SZK] (303)	HAP-II [MAF] (303)	UNIT TEST	LIBRARY
TUE	A		←————→		Patho[MYC] (303)	POC-I [VKM] (303)	EVS[RST] (303)	POC-I [VKM] Tutorial
	B		Biochem[SZK]](211)		POC-I [VKM] (303)	Patho[MYC] (303)	CA [VAK] (101)	Patho[MYC] Tutorial (303)
	C		POC-I [VKM]](209)		Patho[MYC] (303)	CA [VAK] (101)	POC-I [VKM] (303)	EVS[RST] (303)
WED	A		POC-I [VKM]](209)		←————→	CA [VAK] (101)	POC-I [VKM] (303)	EVS[RST] (303)
	B		←————→	HAP-II [MAF](312)	CA[VAK](203)	←————→		
	C		Biochem[HHR](211)	HAP-II [MAF](312)	CA[VAK](203)	←————→		
THU	A		HAP-II [MAF](312)	←————→				
	B		CA[VAK](203)	←————→				
	C		←————→					
FRI	A		←————→					
	B		HAP-II [MAF](312)					
	C		CA[VAK](203)					
SAT	A		CA[VAK](203)					
	B		←————→					
	C		HAP-II [MAF](312)					

SUBJECTS	
Abbr.	Full Name
HAP-II	Human Anatomy & Physiology-II
Patho	Pathophysiology
POC-I	Pharmaceutical organic Chemistry-I
Biochem	Biochemistry
CA	Computer application
EVS	Enviornental Science

FACULTY	
Abbr.	Full Name
MAF	Momin Aaliya F
MYC	Minal Y Chaudhari
VKM	Vidya K Magar
SZK	Sumaiya Z Khan
VAK	Kishan B Jaiswal
RST	Rashmi S Tambare



Vidya
CLASS INCHARGE
Academic In Charge
(Vidya K Magar)
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Vidya
MASTER TIME TABLE INCHARGE
(Ms.Vidya K Magar)

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DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-B)

Class: B. Pharmacy First Year (Second Semester) Academic Year: 2019-20

w.e.f.: 01/01/2020

TIME	Batch	(MORNING) PRACTICAL	01:00 pm to 01:45 pm	(AFTERNOON) THEORY			
		09:00MAF-1:00 pm		01:45-02:45 pm	02:45-03:45 pm	03:45-04:45 pm	04:45-05:45 pm
DAY	Batch	Subject	R E C E S S				
MON	D	← →		POC-I [VKM] (315)	CA [VAK] (315)	EVS[SAN] (315)	POC-I [VKM] Tutorial(315))
TUE	D	CA[VAK](203)		Patho [MYC] (315)	POC-I [VKM] (315)	Patho [MYC] (315)	TG Hour
WED	D	← →		CA [VAK] (315)	EVS[SAN] (315)	POC-I [VKM] (315)	UNIT TEST
THU	D	Biochem [HHR](211)		HAP-II [MAF] (315)	Biochem[SZK] (315)	Patho [MYC] (315)	Biochem[SZK] Tutorial(315)
FRI	D	POC-I[SZK](209)		Biochem[SZK] (315)	HAP-II [MAF] (315)	UNIT TEST	HAP-II [MAF] Tutorial(315)
SAT	D	HAP-II[MYC](312)		HAP-II [MAF] (315)	Biochem[SZK] (315)	Patho [MYC] Tutorial(315)	LIBRARY



SUBJECTS	
Abbr.	Full Name
HAP-II	Human Anatomy & Physiology-II
Patho	Pathophysiology
POC-I	Pharmaceutical organic Chemistry-I
Biochem	Biochemistry
CA	Computer application
EVS	Enviornmental Science

CLASS INCHARGE

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FACULTY	
Abbr.	Full Name
MAF	Momin Aaliya F
MYC	Minal Y Chaudhari
VKM	Vidya K Magar
SZK	Sumaiya Z Khan
VAK	Vaishnavi Kuthe
RST	Rashmi S Tambare

MASTER TIME TABLE INCHARGE

(Ms. Vidya K Magar)

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DEPARTMENT OF PHARMACY

CLASS TIME TABLE (DIVISION-B)

Class: B. Pharmacy Second Year (Fourth Semester) Academic Year: 2019-20

w.e.f.: 01/01/2020

TIME	(MORNING) THEORY				01:15-2:00pm	(AFTERNOON) PRACTICAL	
	9:00 -10:00am	10-11:15 am	11:15-12:15 pm	12:15-1:15 pm		Batch	2:00-6:00 pm Subject
MON	LIBRARY	POCIII (MMK) (315)	MedichemI (VRS)(315)	POC III(MMK) Tutorial (315)	R E C E S S	D E	MedichemI (MMK)(209) P'col(MYC)(011)
TUE	TG Hour	MedichemI (VRS)(315)	POCIII (MMK)	MedichemI(VRS) Tutorial (315)		D E	MedichemI (MMK)(209)
WED	UNIT TEST	POCIII (MMK) (315)	Medichem-I (VRS)(315)	UNIT TEST		D E	P'col(MYC)(011)
THU	P'col(SPK) Tutorial (315)	P'cog(AVD) (315)	PP II(RST) (315)	P'col(SPK) (315)		D E	PP II (SVN) (013) P'cog(ADL))(310)
FRI	PP II(RST) Tutorial (315)	PP II(RST) (315)	P'cog(AVD) (315)	P'col(SPK) (315)		D E	P'cog(ADL))(310)
SAT	P'cog(AVD) Tutorial (315)	P'cog(AVD) (315)	PP II(RST) (315)	P'col(SPK) (315)		D E	PP II(SVN)(013)

SUBJECTS	
Abbr.	Full name
PP-II	Physical pharmacy-ii
P'col	Pharmacology-I
P'cog	Pharmacognosy and phytochemistry-I
POC-III	Pharmaceutical organic chemistry-iii
Medichem-I	Medicinal chemistry - I

FACULTY	
Abbr.	Full name
RST	Rashmi S Tambare
SPK	Snehal P Khandale
AVD	Arundhati V Deokar
MMK	MahendraM.Khandare
VRS	Vishaka R Shelke
MYC	Minal Y Chaudhari

CLASS TEACHER
(Arundhati V Deokar)

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TIME TABLE INCHARGE
(Vidya K Magar)

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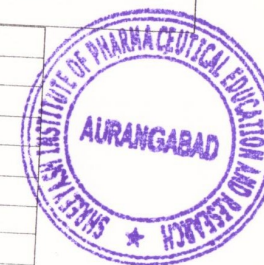
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DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-A)

Class: B. Pharmacy Second Year (Fourth Semester)

Academic Year: 2019-20w.e.f.:01/01/2020

TIME	(MORNING) THEORY				(AFTERNOON) PRACTICAL		
	9:00 -10:00am	10-11:15 am	11:15-12:15 pm	12:15-1:15 pm	01:15-2:00pm		2:00-6:00 pm
DAY					R E C E S S	Batch	Subject
MON	P'col(SPK) Tutorial (303)	PP II(RST) (303)	P'cog(AVD) (303)	P'col(SPK) (303)		A B C	PP II(RST) (013) P'cog(AVD)(310)
TUE	PP II(RST) Tutorial (303)	P'cog(AVD) (303)	P'col(SPK) (303)	PP II(RST) (303)		A B C	PP II(RST)(013) P'cog(AVD))(310)
WED	P'cog(AVD) Tutorial (303)	P'col(SPK) (303)	PP II(RST) (303)	P'cog(AVD) (303)		A B C	P'cog(AVD))(310) PP II(RST)(013)
THU	LIBRARY	POC III(MMK) (303)	MedichemI (VRS(303)	POC III(MMK) Tutorial (303)		A B C	MedichemI (VRS)(209) P'col(SPK)(011)
FRI	TG Hour	MedichemI (VRS(303)	UNIT TEST	POC III(MMK) (303)		A B C	P'col(SPK))(011) MedichemI (VRS))(209)
SAT	UNIT TEST	POC III(MMK) (303)	Medichem-I (VRS(303)	MedichemI(VRS) Tutorial (303)		A B C	MedichemI (VRS))(209) P'col(SPK))(011)

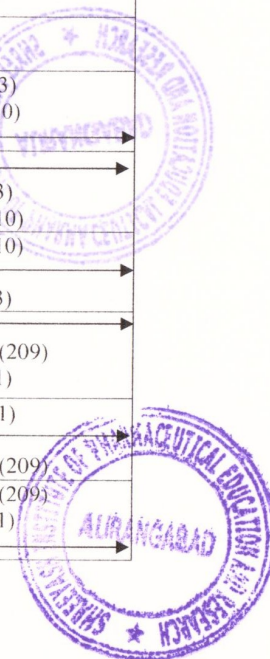
SUBJECTS	
Abbr.	Full name
PP-II	Physical pharmacy-II
P'col	Pharmacology-I
P'cog	Pharmacognosy and phytochemistry-I
POC-III	Pharmaceutical organic chemistry-III
Medichem-I	Medicinal chemistry - I

FACULTY	
Abbr.	Full name
RST	Rashmi S Tambare
SPK	Snehal P Khandale
AVD	Arundhati V Deokar
MMK	MahendraM.Khandare
VRS	Vishaka R Shelke

CLASS TEACHER
(Arundhati V Deokar)

TIME TABLE INCHARGE
(Vidya K Magar)

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Education and Research





DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-A)

Class: B. Pharmacy Third year(Sixth Semester)

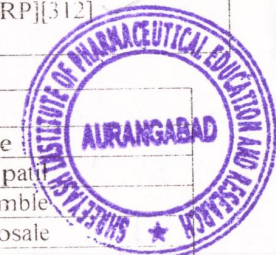
Academic Year 2019-2020

w.e.f.: 01/01/2020

TIME	(MORNING) THEORY				01:15-2:00pm	(AFTERNOON) PRACTICAL	
	9:00 -10:00am	10-11:15am	11:15-12:15 pm	12:15-1:15pm		Batch	2:00-6:00 pm Subject
DAY							
MON	HDT[ADL] Tutorial(301) ✓	BIOPHARM[MDK] (301) ✓	HDT[ADL] (301) ✓	P'COLOGY-III [PVB](301) ✓	R E C E S S	A B C	MEDICHEM III[GGP](211) ✓ P'COLOGY-III[PVB]](213) ✓
TUE	BIOPHARM Tutorial[MDK]	P'COLOGY-III [PVB](301) ✓	BIOPHARM [MDK](301) ✓	HDT[ADL] (301)		A B C	MEDICHEM III[GGP]](211) ✓ P'COLOGY-III[PVB]](213) ✓
WED	P'COLOGY-III Tutorial [PVB](301) ✓	HDT[ADL] (301)	BIOPHARM [MDK](301) ✓	P'COLOGY-III [PVB](301) ✓		A B C	P'COLOGY-III[PVB]](213) ✓ MEDICHEM III[GGP]](211)
THU	QA [MRP] Tutorial(301) ✓	MEDICHEM- II [GGP](301) ✓	QA (301)[MRP]	MEDICHEM- II [GGP](301)		A B C	HDT[MRP][312] ✓
FRI	MEDICHEM II [GGP]Tutorial(301)	QA (301)[MRP] ✓	BIOTECH[SAK] (301) ✓	BIOTECH[SAK] (301) ✓		A B C	HDT[MRP][312] ✓
SAT	BIOTECH[SAK] Tutorial(301) ✓	BIOTECH[SAK] (301) ✓	MEDICHEM-III [GGP](301) ✓	QA (301) [MRP]		A B C	HDT[MRP][312]

SUBJECTS	
Abbr.	Full name
MEDICHEM- III	Medicinal Chemistry III
BIOPHARM	Biopharmaceutics and Pharmacokinetics
P'COLOGY-III	Pharmacology III
QA	Quality Assurance
HDT	Herbal Drug Technology
BIOTECH	Pharmaceutical Biotechnology

FACULTY	
Abbr.	Full name
GGP	Geetanjali G patil
MDK	Milind D Kamble
PVB	Pallavi V Bhosale
MRP	Madhavi R Pawar
ADL	Amar D Lomte
SAK	Shubheda A Kulkarni



[Signature]

CLASSINCHARGE
Amar D Lomte

MASTER TIME TABLE
Vidya K. Maone

[Signature]
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DEPARTMENT OF PHARMACY

CLASS TIME TABLE (DIVISION-B)

Class: B. Pharmacy Third year (Sixth Semester) Academic Year:2019-2020

w.e.f:01/01/2020

TIME	(MORNING)THEORY				(AFTERNOON) PRACTICAL		
	9:00 -10:00am	10-11:15 am	11:15-12:15 pm	12:15-1:15 pm	01:15-2:00pm	2:00-6:00 pm	
DAY					R E C E S S	Batch	Subject
MON	BIOTECH[SAK] Tutorial(302)	BIOTECH[SAK] (302)	MEDICHEM- II [GGP](302)	QA (302)[MRP]		D	← →
TUE	MEDICHEM II [GGP]Tutorial(302)	MEDICHEM- II [GGP](302)	BIOTECH[SAK]	BIOTECH[SAK]		D	HDT[SVN][312]
WED	QA [MRP] Tutorial(302)	QA [MRP](302)	MEDICHEM-III [GGP](302)	QA [MRP](302)		D	← →
THU	HDT[ADL] Tutorial(302)	BIOPHARM[MDK] (302)	HDT[ADL] (302)	P'COLOGY-III [PVB](302)		D	MEDICHEM III[MMK](211)
FRI	BIOPHARM Tutorial[MDK]	P'COLOGY-III [PVB](302)	BIOPHARM [MDK](302)	HDT[ADL] (302)		D	P'COLOGY-III[MDK](213)
SAT	P'COLOGY-III Tutorial [PVB](302)	HDT[ADL] (302)	BIOPHARM [MDK](302)	P'COLOGY-III [PVB](302)		D	← →

SUBJECTS	
Abbr.	Full name
MEDICHEM- III	Medicinal Chemistry III
BIOPHARM	Biopharmaceutics and Pharmacokinetics
P'COLOGY-III	Pharmacology III
QA	Quality Assurance
BIOTECH	Pharmaceutical Biotechnology
HDT	Herbal Drug Technology

FACULTY	
Abbr.	Full name
GGP	Geetanjali G patil
MDK	Milind D Kamble
PVB	Pallavi V Bhosale
MRP	Madhavi R Pawar
SAK	Shubhada A Kulkarni
ADL	Amar D Lomte



[Signature]

CLASS INCHARGE

Amar D Lomte

MASTER TIME TABLE

Vidya K Magar

[Signature]

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**DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-A)**

Class: B. Pharmacy First Year (First Semester)

Academic Year: 2019-20

w.e.f.: 02/08/2019

TIME	(MORNING) THEORY				(AFTERNOON) PRACTICAL		
	8.30am -10:00am	10-11:15am	11:15-12:15am	12:15-1:15pm	01:15-2:00pm		2:00-6:00pm
DAY					R E C E S S	Batch	Subject
MON	PH-I- Tutorial[RST] (303)	PA-I [HHR] (303)	PH-I[RST] (303)	CSK [KBJ] (303)		A B C	PA-I [HHR][211] PH-I [RST][011] HAP [VAK]][311]
TUE	PIC[VRS] Tutorial (303)	CSK [KBJ] (303)	PA-I [HHR] (303)	PH-I[RST] (303)		A B C	PH-I [RST][011] HAP [VAK]][311] PA-I [HHR][211]
WED	RM[SAP]	PH-I[RST] (303)	TG HOUR	PA-I [HHR] (303)		A B C	HAP [VAK]][311] PA-I [HHR]][211] PH-I [RST]][011]
THU	HAP-I [VAK]Tutorial (303)	PIC[VRS] (303)	HAP-I [VAK] (303)	UNIT TEST		A B C	PIC [VRS]][209] ←→ CSK[KBJ][203]
FRI	SPORTS	HAP-I [VAK] (303)	UNIT TEST	PIC[VRS] (303)		A B C	CSK[KBJ][203] PIC [VRS]][209] ←→
SAT	PA-Tutorial [HHR](303)	PIC[VRS] (303)	HAP-I [VAK] (303)	RM[SAP] (303)		A B C	←→ CSK[KBJ][203] PIC [VRS]][209]

SUBJECTS	
Abbr.	Full name
HAP-I	Human Anatomy & Physiology-I
PH-I	Pharmaceutics-I
PIC	Pharmaceutical Inorganic Chemistry
PA-I	Pharmaceutical Analysis-I
CSK	Communication Skills
RM	Remedial Mathematics

FACULTY	
Abbr.	Full name
VAK	Vaishnavi A Kuthe
RST	Rashmi S Tambare
VRS	Vishakha R. Shelke
HHR	Hrshikesh H Rajput
KBJ	Kishan B Jaiswal
SAP	S.A.Pandav

CLASS INCHARGE
(Vishakha R Shelke)

(Signature)



MASTER TIME TABLE INCHARGE

(Ms.Vidya K. Magar)

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DEPARTMENT OF PHARMACY
 CLASS TIME TABLE (DIVISION-B)

Class: B. Pharmacy First Year (First Semester) Academic Year: 2019-20

w.e.f.: 02/08/2019

TIME	(MORNING)THEORY				(AFTERNOON) PRACTICAL		
	8.30am -10:00am	10-11:15am	11:15-12:15am	12:15-1:15pm	01:15-2:00pm	Batch	Subject
DAY					R E C E S S	D	CSK [KBJ][203]
MON	PIC [VRS] Tutorial(315)	HAP-I [VAK] (315)	PIC[VRS] (315)	UNIT TEST		D	← →
TUE	SPORTS	HAP-I [VAK] (315)	RM[SAP] (315)	PIC[VRS] (315)		D	PIC[GPP][209]
WED	RM[SAP] (315)	PIC[VRS] (315)	HAP-I [VAK] (315)	TG HOUR		D	HAP-I[GPP] [311]
THU	PA-I [HHR] Tutorial (315)	CSK [KBJ] (315)	PH-I [RST] (315)	PA-I [HHR] (315)		D	PA-I[VKM][211]
FRI	HAP-I [VAK] Tutorial(315)	PH-I [RST] (315)	CSK [KBJ] (315)	UNIT TEST		D	PH-I [MRP][011]
SAT	PH-I [RST] Tutorial(315)	PA-I [HHR] (315)	PH-I [RST] (315)	PA-I [HHR] (315)			

SUBJECTS	
Abbr.	Full name
HAP-I	Human Anatomy & Physiology-I
PH-I	Pharmaceutics-I
PIC	Pharmaceutical Inorganic Chemistry
PA-I	Pharmaceutical Analysis-I
CSK	Communication Skills
RM	Remedial Mathematics

FACULTY	
Abbr.	Full name
VAK/GAP	Vaishnavi A Kuthe / <i>Geetanjali Patil</i>
RST/MRP	Rashmi S Tambare / <i>Madhavi Pawar</i>
VRS/GAP	Vishakha R Shelke / <i>Geetanjali Patil</i>
HHR/VKM	Hrshikesh H Rajput / <i>Vidya Magar</i>
KBJ	Kishan B Jaiswal
SAP	S.A.Pandav

V. Shelke

CLASS INCHARGE
 (Vishakha R Shelke)



V. Magar

MASTER TIME TABLE INCHARGE

(Ms Vidya K. Magar)
 Academic In-Charge
 Shreeyash Institute of Pharmaceutical
 Education And Research
 Aurangabad

V. Patil

PRINCIPAL
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DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-A)

Class: B. Pharmacy Second Year (Third Semester)

Academic Year: 2019-20

w.e.f.:25/6/2019

TIME	DAY	Batch	(MORNING)	01:30 pm to 02:15 pm	(AFTERNOON) THEORY		
			PRACTICAL		2:15-3:15 PM	3:15-4:15 PM	4:15-5:15 PM
MON	A	PE(013)SZK	R E C E S S	R E C E S S	Micro (SAK) (301)	Micro (SAK) Tutorial (301)	PPI(SVN) (301)
	B	MICRO (211)SAK			Micro(SAK) (101)	PPI(SVN) (301)	PPI (SVN) Tutorial (301)
	C	PPI(011)SVN			PPI(SVN) (301)	Micro(SAK) (301)	TG Hour
TUE	A	POC II(209)MMK			POC II(MMK) (301)	PE (SZK) (301)	POC II(MMK) Tutorial (301)
	B	PPI(011)SVN			PE (SZK) (301)	POC II(MMK) (301)	PE (SZK) Tutorial (301)
	C	MICRO (310)SAK			POC II((MMK)	PE (SZK) (301)	Unit Test
WED	A	PPI(011)SVN					
	B	PE(310)SZK					
	C	POCII(209)MMK					
THU	A	MICRO (310)SAK					
	B	POCII(209)MMK					
	C	PE(013)SZK					
FRI	A	Guest Lecture					
	B	Guest Lecture					
	C	Guest Lecture					
SAT	A	Guest Lecture					
	B	Guest Lecture					
	C	Guest Lecture					

SUBJECTS	
Abbr.	Full name
PP-I	Physical Pharmacy-I
PE	Pharmaceutical Engineering
Micro	Pharmaceutical Microbiology
POC-II	Pharmaceutical Organic Chemistry-II

FACULTY	
Abbr.	Full name
SVN	Shradha V Nalawade
SZK	Sumaiya Z Khan
SAK	Shubhada A Kulkarni
MMK	Mahendra M Khandare



CLASS TEACHER
(Sumaiya Z Khan)

MASTER TIME TABLE INCHARGE
(Vidya R. Magar)
Academy In Charge
Shreeyash Institute of Pharmaceutical
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DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-B)

Class: B. Pharmacy Second Year (Third Semester) Academic Year: 2019-20 w.e.f.: 25/6/2019

TIME	Batch	(MORNING) PRACTICAL	01:30 pm to 02:15 pm	(AFTERNOON) THEORY		
		09:30am-1:30 pm		2:15-3:15 PM	3:15-4:15 PM	4:15-5:15 PM
DAY	Batch	Subject	R E C E S S			
MON	D E	MICRO (31Q)MRP POC II(209)MMK		PE (SZK) (302)	POCII(VKM) (302)	PE Tutorial (SZK) (302)
TUE	D E	POC II(211)VKM PE(312)SZK		POCII (VKM) (302)	PE (SZK) (302)	TG Hour
WED	D E	PP(013)VKM MICRO (31Q)SAK		POCII (VKM) (302)	PE (SZK) (302)	POCII (VKM) Tutorial (302)
THU	D E	PE(312)MDK PP(011)VKM		MICRO (SAK) (302))	PP I (SVN) (302)	PP I (SVN) Tutorial (302)
FRI	D E	↔ ↔		PP I (SVN) (302)	MICRO(SAK) (302)	Unit Test
SAT	D E	↔ ↔		MICRO(SAK) (302)	PP I (SVN) (302)	MICRO (SAK) Tutorial (302)



SUBJECTS	
Abbr.	Full name
PP-I	Physical Pharmacy-I
PE	Pharmaceutical Engineering
MICRO	Pharmaceutical Microbiology
POC-II	Pharmaceutical Organic Chemistry II

Abbr.	Full name
SVN	Shradha V Nalawade
SZK	Sumaiya Z Khan
SAK	Shubhada Kulkarni
VKM	Vidya K Magar
MRP	Madhavi R Pawar
MDK	Milind D Kamble

CLASS TEACHER
(Sumaiya Z Khan)

MASTER TIME TABLE INCHARGE

(Vidya K Magar)
Vidya K Magar
 Shreeyash Institute of Pharmaceutical
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**DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-A)**

Class: B. Pharmacy Third year (Fifth Semester)

Academic Year 2019-2020

w.e.f.: 25/06/2019

TIME	(MORNING)THEORY				(AFTERNOON) PRACTICAL		
	9:00 -10:00am	10-11:15 am	11:15-12:15 pm	12:15-1:15 pm	01:15-2:00pm	2:00-6:00 pm	
DAY					R E C E S S	Batch	Subject
MON	PJ[ADL] Tutorial(301)	IP-I[MDK] (301)	PJ[ADL] (301)	P'COLOGY-II [PVB](301)		A B C	P'COLOGY-II(213) PVB P'COGNOSY-II (310) AVD IP-I (013)MDK
TUE	IP-I Tutorial[MDK]	P'COLOGY-II [PVB](301)	IP-I[MDK] (301)	PJ[ADL] (301)		A B C	← IP-I (013)MDK → P'COGNOSY-II (310)AVD
WED	UNIT TEST	PJ[ADL] (301)	IP-I[MDK] (301)	P'COLOGY-II [PVB](301)		A B C	P'COGNOSY-II (310)AVD P'COLOGY-II (213) PVB ← →
THU	ASSIGNMENT	P'COGNOSY-II [AVD](301)	MEDICHEM- II [GGP](301)	P'COGNOSY-II [AVD]Tutorial(301)		A B C	← IP-I (013)MDK → P'COLOGY-II (213) PVB
FRI	UNIT TEST	MEDICHEM-II [GGP](301)	P'COGNOSY-II [AVD](301)	MEDICHEM II [GGP]Tutorial(301)		A B C	Guest Lecture
SAT	SPORTS	P'COGNOSYII [AVD](301)	MEDICHEM-II [GGP] (301)	P'COLOGY-II Tutorial [PVB](301)		A B C	Guest Lecture



SUBJECTS	
Abbr.	Full name
MEDICHEM- II	Medicinal Chemistry II
IP-I	Industrial Pharmacy I
P'COLOGY-II	Pharmacology II
P'COGNOSY-II	Pharmacognosy and Phytochemistry II-
PJ	Pharmaceutical Jurisprudence

FACULTY	
Abbr.	Full name
GGP	Geetanjali G patil
MDK	Milind D Kamble
PVB	Pallavi V Bhosale
AVD	Arundhati V Deokar
ADL	Amar D Lomte

Arundhati V Deokar
CLASS INCHARGE
Arundhati V Deokar

Vidya K. Magar
MASTER TIME TABLE INCHARGE
Academic In Charge
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Education And Research
Aurangabad

Arundhati V Deokar
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DEPARTMENT OF PHARMACY
CLASS TIME TABLE (DIVISION-B)

Class: B. Pharmacy Third year (Fifth Semester)

Academic Year: 2019-2020

w.e.f: 25/06/2019

TIME	(MORNING)THEORY				01:15-2:00pm	(AFTERNOON) PRACTICAL	
	9:00 -10:00am	10-11:15 am	11:15-12:15 pm	12:15-1:15 pm		Batch	2: 00-6:00 pm Subject
DAY					R E C E S S	D E	Guest Lecture
MON	UNIT TEST	MEDICHEM-II [GGP](302)	P'COGNOSY-II [AVD] (302)	MEDICHEM-II[GGP] Tutorial(302)		D E	P'COLOGY-II(213) GGP IP-I (30)MRP
TUE	ASSIGNMENT	P'COGNOSY-II [AVD] (302)	P'COLOGY-II [PVB] Tutorial (302)	MEDICHEM-II [GGP](302)		D E	IP-I (013)MRP
WED	SPORTS	MEDICHEM-II [GGP](302)	P'COGNOSY-II [AVD] (302)	P'COGNOSY-II [AVD] Tutorial(302)		D E	P'COGNOSY-II (310)ADL
THU	UNIT TEST	IP-I[MRP] (302)	PJ[ADL] (302)	P'COLOGY-II [PVB]((302)		D E	P'COLOGY-II(213) ADL
FRI	IP-I [MRP] Tutorial(302)	PJ[ADL] (302)	IP-I[MRP] (302)	P'COLOGY-II [PVB]((302)		D E	P'COGNOSY-II(310)ADL
SAT	PJ[ADL] Tutorial(302)	P'COLOGY-II [PVB]((302)	PJ[ADL] (302)	IP-I[MRP] (302)		D E	



SUBJECTS	
Abbr.	Full name
MEDICHEM- II	Medicinal Chemistry II
IP-I	Industrial PharmacyI
P'COLOGY-II	Pharmacology II
P'COGNOSY-II	Pharmacognosy and Phytochemistry II-
PJ	Pharmaceutical Jurisprudence

FACULTY	
Abbr.	Full name
GGP	Geetanjali G patil
MRP	Madhavi R Pawar
PVB	Pallavi V Bhosale
AVD	Arundhati V Deokar
ADL	Amar D Lomte

A Deokar
CLASS INCHARGE
Arundhati V Deokar

Vidya K Magar
MASTER TIME TABLE
Academic In-Charge
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(D. Pharm & B. Pharm)

Approved by AICTE, PCI New Delhi, Government of Maharashtra, DTE Mumbai (Institute Code : 2572) and
Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere & MSBTE Mumbai.




Date: 30-12-2019


NOTICE

All the Teaching & Non-Teaching staff members and students are here by informed that our ~~second~~ ^{Even} semester academic will be start from 1st of January, 2020. All First year students be present and attend the class regularly.

All students should take note of this.


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SHREEYASH INSTITUTE OF PHARMACEUTICAL
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(D. Pharm & B. Pharm)

Approved by AICTE, PCI New Delhi, Government of Maharashtra, DTE Mumbai (Institute Code : 2572) and
Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere & MSBTE Mumbai.



Date: 31-07-2019

NOTICE

All the Teaching & Non-Teaching staff members and students are here by informed that our firstsemester academic will be start from 2nd of August, 2019. All First year students be present and attend the class regularly.

All students should take note of this.

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(D. Pharm & B. Pharm)



Approved by AICTE, PCI New Delhi, Government of Maharashtra, DTE Mumbai (Institute Code : 2572) and
Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere & MSBTE Mumbai.

Date:-20-06-19

NOTICE

All the Teaching & Non-Teaching staff members and students are here by informed that our third and fifth semester academic will be start from 25th of June, 2019. All Second and Third year students be present and attend the class regularly.

All students should take note of this.

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

https://www.pci.nic.in/pdf/Syllabus_B_Pharm.pdf



PHARMACOLOGY I (21-9-20)

Division- A

Lecture No.	LESSON PLAN	PLANNED DATE	EXECUTION DATE	% SYLLABUS
UNIT I				
1	Introduction to pharmacology: Definition, historical landmarks and scope of pharmacology	06-01-20	20/01/20	2.2
2	Nature and source of drugs, essential drugs concept	07-01-20	20/01/20	4.4
3	Route of drug administration	08-01-20	21/01/20	6.7
4	Agonist, antagonists (competitive and non competitive), spare receptors, addiction, tolerance, dependence, tachyphylaxis, idiosyncrasy and allergy	13-01-20	22/01/20	8.9
5	Pharmacokinetics: Membrane transport, absorption of drug (mechanisms)	14-01-20	27/01/20	11.1
6	Factors affecting absorption of drug, distribution	15-01-20	27/01/20	13.3
7	Metabolism and excretion of drugs	20-01-20	28/01/20	15.6
8	Enzyme induction and inhibition, kinetics of elimination	21-01-20	28/01/20	17.8
UNIT II				
9	Pharmacodynamics: Principles and mechanisms of drug action	22-01-20	29/01/20	20.0
10	Receptor theories and classification of receptors, regulation of receptors	27-01-20	10/02/20	22.2
11	Drug receptors interactions signal transduction mechanisms	28-01-20	11/02/20	24.4
12	Types of receptors (G protein, ion channels, transmembrane enzyme linked)	29-01-20	11/02/20	26.7
13	Types of receptors (transmembrane JAK-STAT binding, receptors that regulate transcription factors)	03-02-20	12/02/20	28.9
14	Dose response relationship, therapeutic index	04-02-20	17/02/20	31.1
15	Combined effect of drugs and factors modifying drug action	05-02-20	17/02/20	33.3
16	Adverse drug reactions	10-02-20	18/02/20	35.6
17	Drug interactions	11-02-20	19/02/20	37.8
18	Drug discovery and clinical evaluation of new drugs	12-02-20	24/02/20	40.0



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UNIT III				
19	Organization and function of ANS	17-02-20	03/04/20	42.2
20	Neurohumoral transmission, co-transmission and classification of neurotransmitters	18-02-20	03/04/20	44.4
21	Parasympathomimetics	19-02-20	04/04/20	46.7
22	Parasympatholytics	24-02-20	06/04/20	48.9
23	Sympathomimetics	25-02-20	07/04/20	51.1
24	Sympatholytics	26-02-20	08/04/20	53.3
25	Neuromuscular blocking agents	09-03-20	10/4/20	55.6
26	skeletal muscle relaxants	11-03-20	11/4/20	57.8
27	Local anesthetic agents	16-03-20	13/4/20	60.0
UNIT IV				
28	Neurohumoral transmission in the CNS	17-03-20	15/4/20	62.2
29	Special emphasis on importance of various neurotransmitters like GABA, glutamate, serotonin, dopamine etc.	18-03-20	16/4/20	64.4
30	Special emphasis on importance of various neurotransmitters like GABA, glutamate, serotonin, dopamine etc.	23-03-20	16/4/20	66.7
31	General anaesthetics and pre-anesthetics	24-03-20	18/4/20	68.9
32	Sedative and hypnotics	30-03-20	20/4/20	71.1
33	Centrally acting muscle relaxant	31-03-20	24/4/20	73.3
34	Anti-epileptics	01-04-20	22/4/20	75.6
35	Alcohols and disulfiram	06-04-20	23/4/20	77.8
UNIT V				
36	Psychopharmacological agents: Antipsychotics	07-04-20	24/4/20	80.0
37	antidepressant	08-04-20	25/4/20	82.2
38	Anti-anxiety agents	13-04-20	27/4/20	84.4
39	anti-manic and hallucinogens	15-04-20	27/4/20	86.7
40	Drugs used in Parkinson's disease	20-04-20	28/4/20	88.9
41	Drugs used in Alzheimer's disease	21-04-20	28/4/20	91.1
42	CNS stimulants and nootropics	22-04-20	29/4/20	93.3
43	Opioids analgesics and antagonists	27-04-20	30/4/20	95.6
44	Drug addiction and drug abuse	28-04-20	1-10/20	97.8
45	Drug tolerance and dependence	29-04-20	2-10/20	100.0




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PHARMACOLOGY I			Division- B	
Lecture No.	LESSON PLAN	PLANNED DATE	EXECUTION DATE	% SYLLABUS COMPLETION
UNIT I				
1	Introduction to pharmacology: Definition, historical landmarks and scope of pharmacology	09-01-20	23/01/20	2.2
2	Nature and source of drugs, essential drugs concept	10-01-20	24/01/20	4.4
3	Route of drug administration	11-02-20	25/01/20	6.7
4	Agonist, antagonists (competitive and non competitive), spare receptors, addiction, tolerance, dependence, tachyphylaxis, idiosyncrasy and allergy	16-01-20	13/02/20	8.9
5	Pharmacokinetics: Membrane transport, absorption of drug (mechanisms)	17-01-20	14/02/20	11.1
6	Factors affecting absorption of drug, distribution	18-01-20	15/02/20	13.3
7	Metabolism and excretion of drugs	23-01-20	20/2/20	15.6
8	Enzyme induction and inhibition, kinetics of elimination	24-01-20	21/02/20	17.8
UNIT II				
9	Pharmacodynamics: Principles and mechanisms of drug action	25-01-20	22/02/20	20.0
10	Receptor theories and classification of receptors, regulation of receptors	30-01-20	22/02/20	22.2
11	Drug receptors interactions signal transduction mechanisms	31-01-20	29/02/20	24.4
12	Types of receptors (G protein, ion channels, transmembrane enzyme linked)	01-02-20	12/03/20	26.7
13	Types of receptors (transmembrane JAK-STAT binding, receptors that regulate transcription factors)	06-02-20	13/03/20	28.9
14	Dose response relationship, therapeutic index	07-02-20	14/03/20	31.1
15	Combined effect of drugs and factors modifying drug action	08-02-20	14/03/20	33.3
16	Adverse drug reactions	13-02-20	27/02/20	35.6
17	Drug interactions	14-02-20	27/02/20	37.8
18	Drug discovery and clinical evaluation of new drugs	15-02-20	28/02/20	40.0
UNIT III				
19	Organization and function of ANS	20-02-20	19/03/20	42.2



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20	Neurohumoral transmission, co-transmission and classification of neurotransmitters	22-02-20	03/04/20	44.4
21	Parasympathomimetics	27-02-20	04/04/20	46.7
22	Parasympatholytics	28-02-20	05/04/20	48.9
23	Sympathomimetics	29-02-20	07/04/20	51.1
24	Sympatholytics	12-03-20	08/04/20	53.3
25	Neuromuscular blocking agents	13-03-20	10/04/20	55.6
26	skeletal muscle relaxants	14-03-20	11/04/20	57.8
27	Local anesthetic agents	19-03-20	13/04/20	60.0
	UNIT IV			
28	Neurohumoral transmission in the CNS	20-03-20	15/04/20	62.2
29	Special emphasis on importance of various neurotransmitters like GABA, glutamate, serotonin, dopamine etc.	21-03-20	16/04/20	64.4
30	Special emphasis on importance of various neurotransmitters like GABA, glutamate, serotonin, dopamine etc.	26-03-20	16/04/20	66.7
31	General anaesthetics and pre-anesthetics	27-03-20	18/04/20	68.9
32	Sedative and hypnotics	28-03-20	20/04/20	71.1
33	Centrally acting muscle relaxant	03-04-20	21/04/20	73.3
34	Anti-epileptics	04-04-20	22/04/20	75.6
35	Alcohols and disulfiram	09-04-20	23/04/20	77.8
	UNIT V			
36	Psychopharmacological agents: Antipsychotics	11-04-20	24/04/20	80.0
37	antidepressant	16-04-20	25/04/20	82.2
38	Anti-anxiety agents	17-04-20	27/04/20	84.4
39	anti-manic and hallucinogens	18-04-20	27/04/20	86.7
40	Drugs used in Parkinson's disease	23-04-20	28/04/20	88.9
41	Drugs used in Alzheimer's disease	23-04-20	28/04/20	91.1
42	CNS stimulants and nootropics	24-04-20	29/04/20	93.3
43	Opioids analgesics and antagonists	24-04-20	30/04/20	95.6
44	Drug addiction and drug abuse	25-04-20	1/05/20	97.8
45	Drug tolerance and dependence	30-04-20	2/05/20	100.0



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Teaching Plan for Pharmacology I Practical

Practical No	Topic	PLANNED DATE	EXECUTION DATE	% SYLLABUS
1	Introduction to experimental pharmacology	A 10/01/2020	24/01/2020	6.66
		B 09/01/2020	23/01/2020	
		C 11/01/2020	25/01/2020	
2	Commonly used instrument in experimental pharmacology	A 10/01/2020	24/01/2020	13.33
		B 09/01/2020	23/01/2020	
		C 11/01/2020	25/01/2020	
3	Study of common laboratory animals	A 17/01/2020	31/01/2020	20
		B 16/01/2020	20/01/2020	
		C 18/01/2020	1/02/2020	
4	Maintainance of laboratory animals as per the CPCSEA guidelines	A 24/01/2020	31/01/2020	26.66
		B 23/01/2020	30/01/2020	
		C 25/01/2020	1/02/2020	
5	Common laboratory techniques	A 31/01/2020	14/02/2020	33.33
		B 30/01/2020	13/02/2020	
		C 01/02/2020	15/02/2020	
6	Study of different routes of drug administration in mice/rats	A 14/02/2020	21/02/2020	40
		B 13/02/2020	20/02/2020	
		C 15/02/2020	22/02/2020	
7	Study of effect of hepatic microsomal enzymes inducer on the phenobarbitone sleeping time	A 21/02/2020	28/02/2020	46.66
		B 20/02/2020	27/02/2020	
		C 22/02/2020	29/02/2020	
8	Effect of drugs on ciliary motility of frog oesophagus	A 28/02/2020	28/02/2020	53.33
		B 27/02/2020	27/02/2020	
		C 28/02/2020	29/02/2020	
9	Effect of drugs on rabbit eye	A 06/03/2020	13/03/2020	60
		B 05/03/2020	12/03/2020	
		C 07/03/2020	14/03/2020	
10	effect of skeletal muscles relaxants using rota-rodde apparatus	A 13/03/2020	?	66.66
		B 12/03/2020	04/04/2020	
		C 14/03/2020	?	
11	Effects of drugs on locomotor activity using actophotometer	A 20/03/2020	?	73.33
		B 19/03/2020	11/4/2020	
		C 21/03/2020	?	
12	Anticonvulsant effect of drugs by MES and PTZ method	A 27/03/2020	?	80
		B 26/03/2020	18/4/2020	
		C 28/03/2020	?	
13	study of stereotype and anti-catatonic activity of drugs on rats/mice	A 03/04/2020	?	86.66
		B 09/04/2020	21/4/2020	
		C 04/04/2020	?	
14	study the anxiolyte activity of drugs using rats/mice	A 17/04/2020	?	93.33
		B 16/04/2020	24/4/2020	
		C 11/04/2020	?	



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15	study of local anaesthetics by different methods	A	24/04/2020	28/4/2020	100
		B	23/04/2020		
		C	18/04/2020		



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Principal
Shreeyash Institute of Pharmaceutical Education and Research, Aurangabad.



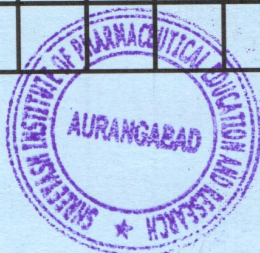
THEORY ATTENDANCE RECORD

SUBJECT:

CLASS:

DIV:

Roll No.	Date															
	Lec No.	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Total no. of students present:																



Subject I/c



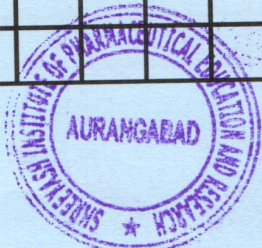
THEORY ATTENDANCE RECORD

SUBJECT: _____

CLASS: _____

DIV: _____

Roll No.	Date												Present attendance for semester	
	Lec No.	42	43	44	45	46	47	48	49	50	51	52	Ist	IInd
Total no. of students present:														



Subject I/c



SHREYASH PRATISHTHAN'S
Shreeyash Technical Campus
 SHREYASH INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

FORMAT NO. STC/PR08/F/05



DEPARTMENT OF PHARMACY
LABORATORY OCCUPANCY REPORT

Academic Year 2019-2020 (EVEN SEM)

w.e.f.: 01/01/2020

Floor	Day	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
		Lab/Time	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)
G R O U N D	011	RESEARCH WORK	Batch-F [P.COLOGY-I]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	Batch-D [P.COLOGY-I]	RESEARCH WORK	Batch-C [P.COLOGY-I]	RESEARCH WORK	Batch-A [P.COLOGY-I]	RESEARCH WORK	Batch-B [P.COLOGY-I]
	013	RESEARCH WORK	Batch-A [PP-II]	RESEARCH WORK	Batch-B [PP-II]	RESEARCH WORK	Batch-C [PP-II]	RESEARCH WORK	Batch-D [PP-II]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	Batch-E [PP-II]
	203	RESEARCH WORK	RESEARCH WORK	Batch-D [CA]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	Batch-B [CA]	RESEARCH WORK	Batch-C [CA]	RESEARCH WORK	Batch-A [CA]	RESEARCH WORK
2 nd	209	Batch-B [POC-I]	Batch-D [M.CHEM-I]	Batch-C [POC-I]	Batch-E [M.CHEM-I]	Batch-A [POC-I]	RESEARCH WORK	Batch-D [POC-I]	Batch-B [M.CHEM-I]	RESEARCH WORK	Batch-C [M.CHEM-I]	RESEARCH WORK	Batch-A [M.CHEM-I]
	211	Batch-A [Biochem]	Batch-A [M.CHEM-III]	Batch-B [Biochem]	Batch-B [M.CHEM-III]	Batch-C [Biochem]	Batch-C [M.CHEM-III]	Batch-D [Biochem]	Batch-D [M.CHEM-III]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK
	213	RESEARCH WORK	Batch-B [P.COLOGY-III]	RESEARCH WORK	Batch-C [P.COLOGY-III]	RESEARCH WORK	Batch-A [P.COLOGY-III]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	Batch-D [P.COLOGY-III]	RESEARCH WORK	RESEARCH WORK
	310	RESEARCH WORK	Batch-B [P.COG-I]	RESEARCH WORK	Batch-C [P.COG-I]	RESEARCH WORK	Batch-A [P.COG-I]	RESEARCH WORK	Batch-E [P.COG-I]	RESEARCH WORK	Batch-D [P.COG-I]	Batch-D [HAP-II]	RESEARCH WORK
3 rd	312	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	Batch-D [HDT]	RESEARCH WORK	RESEARCH WORK	Batch-A [HAP-II]	Batch-A [HDT]	Batch-B [HAP-II]	Batch-B [HDT]	Batch-C [HAP-II]	Batch-C [HDT]

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DEPARTMENT OF PHARMACY
LABORATORY OCCUPANCY REPORT


Academic Year 2019-2020 (ODD SEM)

w.e.f.: 25 / 06 /2019

Floor	Day	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		
G R O U N D	Lab/ Time	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	Morning (9:00 am - 1:00 pm)	Afternoon (2:00 pm - 6:00 pm)	
	011	Batch-C [PP-I]	Batch-B [PH-I]	Batch-B [PP-I]	Batch-A [PH-I]	Batch-A [PP-I]	Batch-C [PH-I]	Batch-E [PP-I]	RESEARCH WORK	Batch-C [IP-I]	RESEARCH WORK	Batch-D [IP-I]	Batch-D [PH-I]	
	013	Batch-A [PE]	Batch-C [IP-I]	RESEARCH WORK	Batch-B [IP-I]	Batch-D [PP-I]	Batch-E [IP-I]	Batch-C [PE]	Batch-A [IP-I]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	
	2 nd	203	RESEARCH WORK	Batch-D [CSK]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	Batch-C [CA]	RESEARCH WORK	Batch-A [CSK]	RESEARCH WORK	Batch-B [CSK]
		209	Batch-E [POC-II]	RESEARCH WORK	Batch-A [POC-II]	Batch-E [IP-I]	Batch-C [POC-II]	Batch-D [PIC]	Batch-B [POC-II]	Batch-A [PIC]	RESEARCH WORK	Batch-B [PIC]	RESEARCH WORK	Batch-C [PIC]
		211	Batch-B [PM]	Batch-A [PA-I]	Batch-D [POC-II]	Batch-C [PA-I]	RESEARCH WORK	Batch-B [PA-I]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	Batch-D [PA-I]	RESEARCH WORK	RESEARCH WORK
		213	RESEARCH WORK	Batch-A [P.COLOGY- II]	RESEARCH WORK	Batch-D [P.COLOGY- II]	RESEARCH WORK	Batch-B [P.COLOGY- II]	RESEARCH WORK	Batch-C [P.COLOGY- II]	RESEARCH WORK	Batch-E [P.COLOGY- II]	RESEARCH WORK	RESEARCH WORK
	3 rd	310	Batch-D [PM]	Batch-B [P.COG-II]	Batch-C [PM]	Batch-C [P.COG-II]	Batch-E [PM]	Batch-A [P.COG-II]	Batch-A [PM]	Batch-D [P.COG-II]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	Batch-E [P.COG-II]
		312	RESEARCH WORK	Batch-C [HAP-I]	Batch-E [PE]	Batch-B [HAP-I]	Batch-B [PE]	Batch-A [HAP-I]	Batch-D [PE]	Batch-D [HAP-I]	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK	RESEARCH WORK


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FORM NO. STC/PR08/F/05



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SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

LAB TIME TABLE

LAB NAME: Pharmaceutical Chemistry

ACADEMIC YEAR: 2019-2020

HALL NO: 209

W. E. F. :-.....01/1/2020...../ Issue:

LAB INCHARGE : Ms. Vidiya Magar/Ms. Sumaya Khan/ Ms. Vishakha Shelke/ Mr. Mhendra Khandare

SEMESTER: II & IV

DAY / TIME	9:00 am-1:00 pm	01:00 am- 1.45 pm	2:00pm-6:00 pm
MON	POC-I (B)	RECESS	Med-I (Batch D)
	(MMK)		(MMK)
TUE	POC-I (C)		Med-I (Batch E)
	(MMK)		(MMK)
WED	POC-I (A)		Research Work
	(MMK)		
THU	Research Work		Med-I (Batch B)
FRI			(VRS)
	POC-I (D)		Med-I (Batch C)
SAT			(VRS)
	Research Work	Med-I (Batch A)	
		(VRS)	

Faculty Initials	Faculty Full Name	Sign
VKM	Ms. Vidya Magar	
SZK	Ms. Sumaya Khan	
VRS	Ms. Vishakha Shelke	
MMK	Mr. Mhendra Khandare	

HOD



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INDUSTRIAL PHARMACY-I

Laboratory Manual

As per syllabus prescribed by PCI, New Delhi



**Department of Pharmaceutics
Shreeyash Institute of Pharmaceutical Education & Research,
Aurangabad**

Industrial Pharmacy-I

INTRODUCTION TO TABLETS

Tablets may be defined as the solid unit dosage forms containing one or more medicaments and excipients, prepared either by molding or compression. It comprises a mixture of active substances and excipients in powder or granule form. The excipients include diluents, binders or granulating agents, glidants and lubricants to ensure efficient tablet compression, disintegrants to promote tablet break-up in the digestive tract, sweeteners or flavors to enhance taste and pigments to make tablets visually attractive.

ADVANTAGES

1. Tablets offer the greatest compatibilities of all oral dosage forms for the greatest dose precision and the least content variability.
2. Their cost is lowest of all oral dosage form.
3. They are lightest and compact.
4. Easiest and cheapest to package and ship.
5. They have better physical and chemical stability and exert physiological activity of drug.
6. Special forms to facilitate patient compliance eg: - sustained release, extended release formulations.
7. Suitable for large scale economical production.

DISADVANTAGES

1. Unsuitable for infants and children and patients who cannot swallow.
2. Delayed onset of action compared to liquid orals and parenterals.
3. Drugs with poor wetting, slow dissolution properties, optimum absorption high in GIT or combination of above features make tablet manufacturing difficult.
4. Bitter tasting drugs, drugs with objectionable odor or drugs that are sensitive to oxygen or atmospheric moisture may require encapsulation or entrapment prior to compression.

DIFFERENT TYPES OF TABLETS

They are generally divided as

- A. Compressed tablets

Industrial Pharmacy-I

B. Moulded tablets/ Tablets triturates.

CLASSIFICATION OF TABLETS ACCORDING TO USAGE

(A) Tablets ingested orally:

1. Compressed tablet, e.g. Paracetamol tablet
2. Multiple compressed tablet
 - a. Layered tablets
 - b. Press coated/Dry coated Tablets
3. Repeat action tablet
4. Delayed release tablet, e.g. Enteric coated Bisacodyl tablet
5. Sugar coated tablet, e.g. Multivitamin tablet
6. Film coated tablet, e.g. Metronidazole tablet
7. Chewable tablet, e.g. Antacid tablet

(B) Tablets used in oral cavity:

1. Buccal tablet, e.g. Vitamin-C tablet
2. Sublingual tablet, e.g. Nitroglycerin tablet
3. Troches or lozenges
4. Dental cone

(C) Tablets used to prepare solution:

1. Effervescent tablet, e.g. Dispirin tablet (Aspirin)
2. Dispensing tablet, e.g. Enzyme tablet (Digiplex)
3. Hypodermic tablet
4. Tablet triturates e.g. Enzyme tablet

(D) Tablets administered by other Routes

1. Implantation tablets
2. Vaginal tablets

FORMULATION OF TABLETS

In addition to active ingredient, tablet contains a number of inert materials known as additives or excipients.

Different excipients are:

Industrial Pharmacy-I

1. Diluents
2. Binders and adhesives
3. Disintegrants
4. Lubricants and glidants
5. Colouring agents
6. Flavoring agents
7. Sweetening agents

1. Diluents (Fillers)

Diluents are used to make required bulk of the tablet when the drug dosage is inadequate to produce the bulk. Secondary reason is to provide better tablet properties such as improve cohesion, to permit use of direct compression manufacturing or to promote flow.

a. Diluents for wet granulation

- i. Lactose (hydrous): Most widely used. Lactose reacts with certain amine drugs / proteins in the presence of metal stearates (lubricants) resulting in the tablet discoloration with time. Such a reaction is known as *Millard reaction* (*Browning reaction*)
- ii. Anhydrous lactose
- iii. Dicalcium phosphate and calcium sulfate: Excellent for water sensitive drugs because they contain appreciable water content and have low affinity to atmospheric moisture.
- iv. Bentonite and kaolin

b. Diluents for dry granulation and direct compression

- i. Spray dried lactose
- ii. Directly compressible starches (corn, wheat or potato). They act as lubricant, binder and disintegrants
- iii. Colloidal silica
- iv. Sodium chloride used for dental cones
- v. Mannitol, sorbitol, sucrose, dextrose (These agents can also be used as binder in solution form or for wet granulation)

2. Binders and Adhesives

Industrial Pharmacy-I

These materials are added to hold powders together to form granules to promote cohesive compacts for directly compressed tablet.

Example: Acacia, tragacanth- Solution for 10-25 % Conc. Cellulose derivatives- Methyl cellulose, Hydroxy propyl methyl cellulose, Polyvinylpyrrolidone (PVP)- 2% conc. Starch paste-5-15% solution.

3. Disintegrants

Added to a tablet formulation to facilitate its breaking or disintegration when it comes in contact with water in GIT. Disintegrants acts by three mechanisms

- a. Swelling e.g., alginates, starch, PVP etc.
- b. Improving penetration of aqueous liquids (wetting agents) e.g., SLS, clays
- c. Liberation of gas from effervescent base, e.g., NaHCO_3 and citric acid.

Superdisintegrants: Swells up to ten fold within 30 seconds when contact water. Example: Crosscarmellose- cross-linked cellulose, Crosspovidone- cross-linked povidone(polymer), Sodium starch glycolate- cross-linked starch.

4. Lubricants

These are added for the following reasons

- Prevents adhesion of the tablet material to the surface of dies and punches.
- Reduce inter-particle friction; improve the rate of flow of tablet granulation.
- Facilitate ejection of the tablets from the die cavity.

Example: Lubricants- Stearic acid, Stearic acid salt – Stearic acid, Magnesium stearate, Talc, PEG (Polyethylene glycols). Glidants- Corn Starch – 5-10% conc, Talc-5% conc., Silica derivative – Colloidal silicas such as Cab-O-Sil, Syloid, Aerosil in 0.25-3% conc.

Glidants are intended to promote flow of the tablet granulation or powder materials by reducing the friction between the particles.

5. Coloring agent

The use of colors and dyes in a tablet has three purposes:

- (i) It makes the tablet more esthetic in appearance.

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(ii) Colour helps the manufacturer to identify the product during its preparation.

All colorants used in pharmaceuticals *must be approved and certified by the FDA (food & Drug Administration)*. Dyes are generally listed as FD&C (food, Drug & Cosmetic Dyes) dyes and D&C (Drug & Cosmetic Dyes).

Example: FD & C yellow 6-sunset yellow FD & C yellow 5- Tartrazine FD & C green 3- Fast Green FD & C blue 1- Brilliant Blue FD & C blue 2 – Indigo carmine D & C red 3- Erythrosine. D & C red 22 – Eosin Y

6. Flavoring agents

Flavors are usually limited to chewable tablets or other tablets intended to dissolve in the mouth. Flavor oils are added to tablet granulations in solvents, are dispersed on clays and other adsorbents or are emulsified in aqueous granulating agents (i.e. binder). Usually, the maximum amount of oil that can be incorporated to a granulation without influencing its tableting characteristics is 0.5 to 0.75% w/v.

7. Sweetening agents

The use of sweeteners is primarily limited to chewable tablets. e.g - Sugar.

Mannitol-72% as sweet as sugar, cooling & mouth filling effect

Saccharin- Artificial sweetener, 500 times sweeter than sucrose.

Disadvantages: it has a bitter after taste and carcinogenic

Aspartame (Searle) - widely replacing saccharin.

Disadvantage – lack of stability in presence of moisture

MANUFACTURING METHODS OF TABLETS: In the tablet-pressing process, it is important that all ingredients be dry, powdered, and of uniform grain size as much as possible. The main guideline in manufacture is to ensure that the appropriate amount of active ingredient is equal in each tablet so ingredients should be well-mixed. Compressed tablets are exerted to great pressure in order to compact the material. If a sufficiently homogenous mix of the components cannot be obtained with simple mixing, the ingredients must be granulated prior to

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compression to assure an even distribution of the active compound in the final tablet. Two basic techniques are used to prepare powders for granulation into a tablet: wet granulation and dry granulation.

Powders that can be mixed well do not require granulation and can be compressed into tablets through Direct Compression.

The manufacturing of tablet dosage form is basically done by two methods, such as

- 1) Wet Granulation (most products)
- 2) Direct Compression

WET GRANULATION: Wet Granulation is a process of size enlargement whereby small particles are gathered into larger permanent aggregates in which the original particles can still be identified. Granulation usually refers to processes whereby agglomerates with sizes ranging from 0.1 to 2.0 mm are produced. The most important reasons for a granulation step prior to tableting are to:

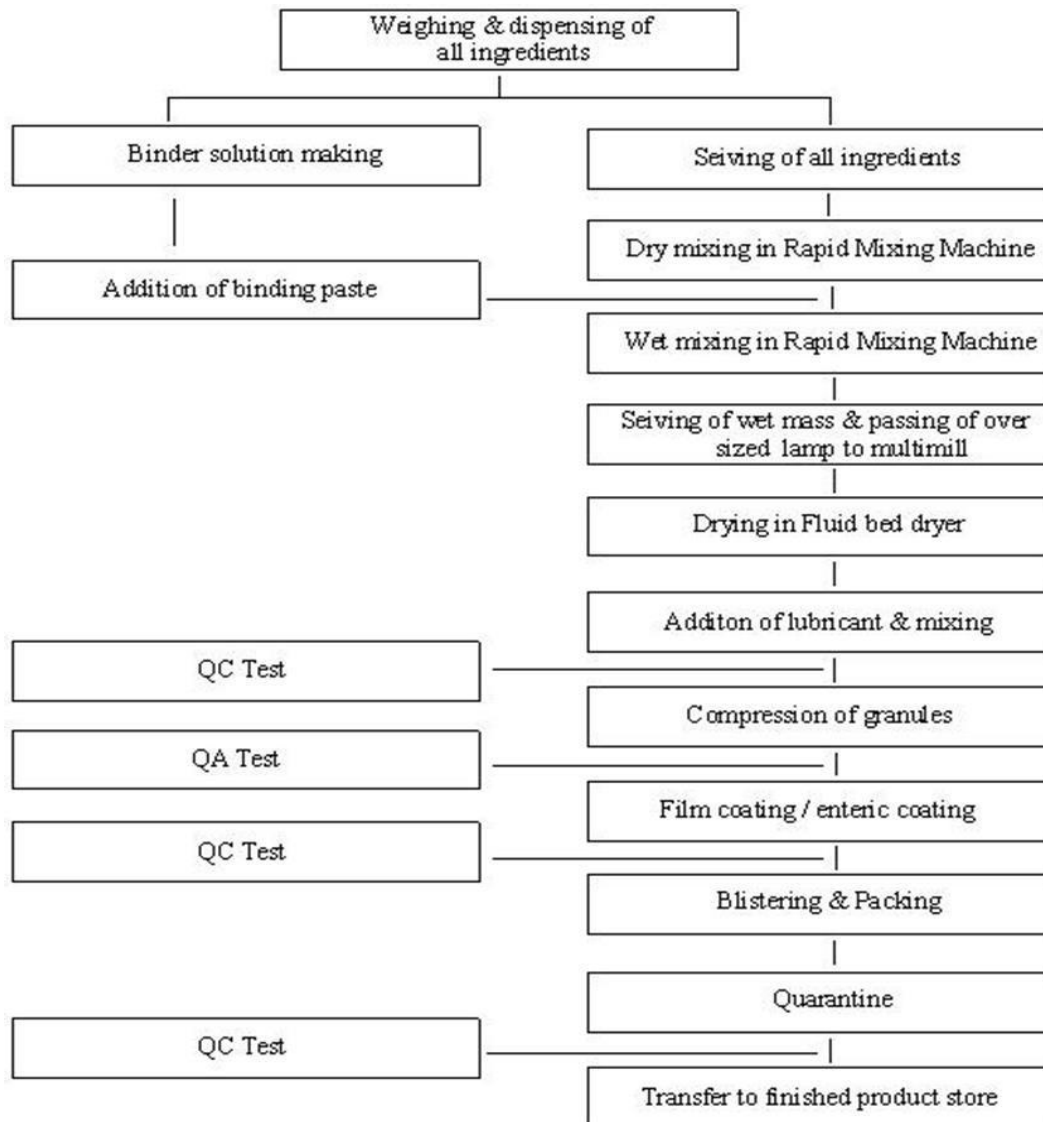
- Improve the flow properties of the mix and hence the uniformity of the dose.
- Prevent segregation of the ingredients.
- Improve the compression characteristics of the tablet mixture.
- Reduce dust during handling

The flow ability of the tablet mixture improves because the granules are larger and more spherical than the primary particles. Larger particles usually flow better than small particles (e.g. compare the flow ability of crystal sugar with powder sugar). In the hopper of tablet machines, small particles tend to segregate from the larger ones because of the vibration of the machine. This causes higher concentrations of small particles at the bottom of the hopper. After granulation all particles are bound tight in the right amount in the granules, which prevents segregation of the small particles

Process Flow Chart

(Wet granulation method)

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Equipment's used in wet granulation method:

1. Electronic Balance
2. Sieve
3. Rapid Mass Granulator (RMG)
4. Multimill
5. Fluid Bed Dryer
6. Double Cone Blender

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7. Vat for the preparation of granulating fluid

DIRECT COMPRESSION: In the direct compression method, directly compressible filler (also called a filler-binder) is blended with the active(s), a lubricant and a disintegrating agent. Such free flowing directly compressible fillers make direct compression possible and practical. These include anhydrous lactose, unmilled dicalcium phosphate dihydrate, microcrystalline cellulose (e.g., Avicel PH 101), and modified (spray processed) lactose (e.g., Ludipress). Modified starch, e.g. Starch 1500 flows better and compresses better than original starch, but are not as effective as other materials as the sole filler-binder. Generally, Starch 1500 is used as a component of a direct compression filler system, most likely for its disintegrating property, i.e., as a more compactible and better flowing substitute for starch. Certain materials like mannitol, sorbitol and modified sucrose are particularly useful in formulating direct compression chewable tablets.

Direct compression method can be classified as

- a) Direct Compression with direct compressible materials and
- b) Direct Compression by Slugging method

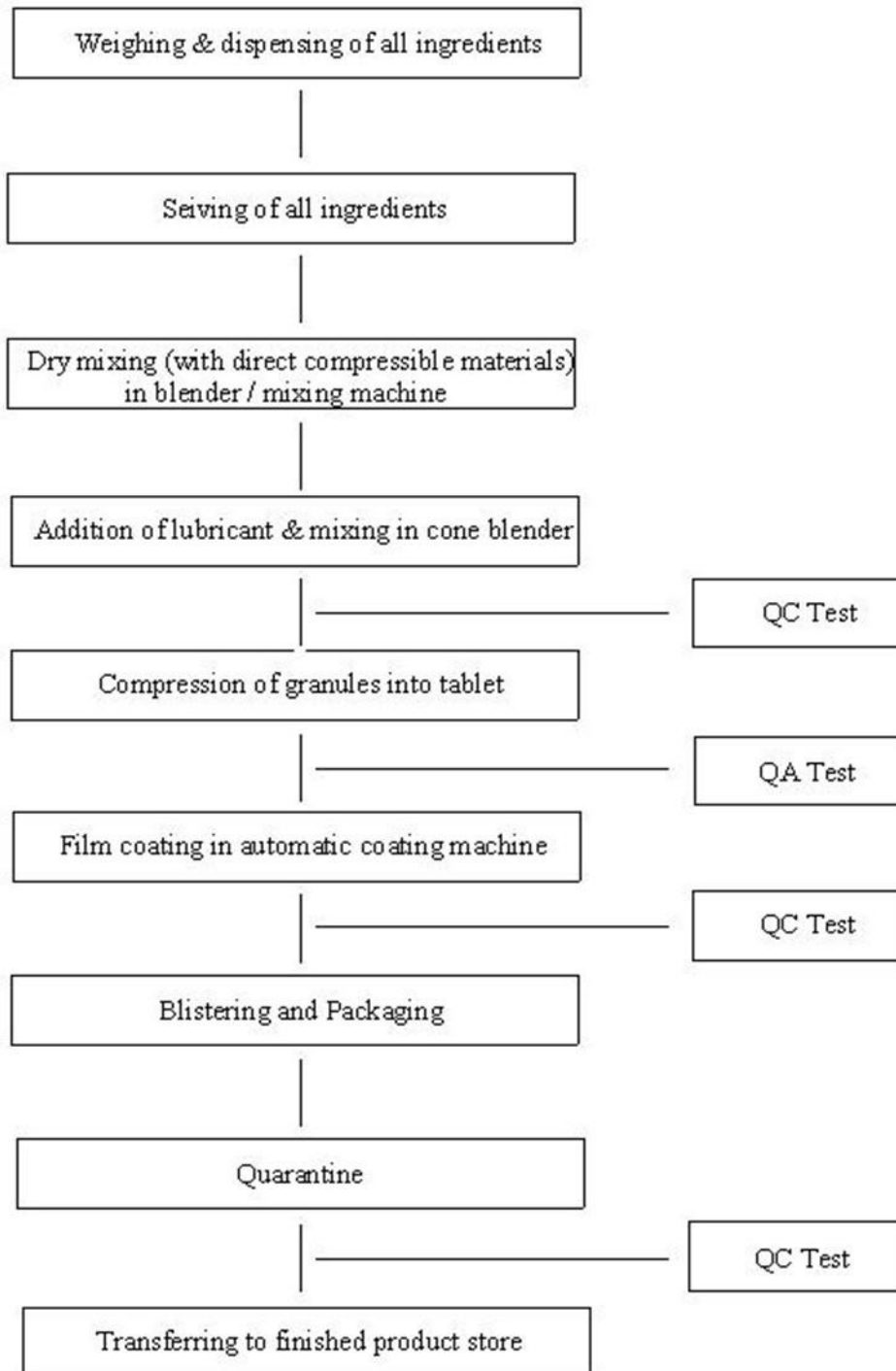
Equipment's used in direct compression method:

1. Electronic Balance
2. Sieve
3. Double cone blender
4. Rotary Press

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Process flow chart

(Direct Compression with direct compressible materials)



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Experiment No. 1

Aim: To evaluate the preformulation parameters of paracetamol.

References:

- 1) Design and manufacturing of medicines, edited by Michael E. Aulton, 3rd edition, pg. no. 355-356.
- 2) Pharmaceutical dosage forms and drug delivery system, Loyd V. Aller Jr., Nicholas G. Popovich; Howard C. Ansel; 9th edition, pg.no. 187-189.

Principle: Preformulation commences when a newly synthesized drug shows sufficient pharmacological promise in animal models to warrants evaluation in man. These studies should focus on properties of a new compound that could affect the drug performance in development of efficacious dosage form. A thorough understanding of these properties may ultimately provide a rationale for formulation design or support the need for molecular modification.

Definition: Preformulation involves the application of biopharmaceutical principles to physicochemical parameters of drug substance are characterized with a goal of designing optimum drug delivery system. Characterization of drug molecule is a very important step of preformulation stage of product development.

- **Description:** White powder.
- **Category:** Pain and fever, nonsteroidal anti-inflammatory drug.
- **Dose:** 500 mg.
- **Storage:** Store protected from light and moisture

Flow rate

$$\text{Flow rate} = \frac{\text{Mass}}{\text{Time}}$$

Bulk density: Apparent bulk density (ρ_b) was determined by placing the granules into a graduated cylinder and measuring the volume (v_b) and weight (m) “as it is”.

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$$\text{Bulk density} = \frac{\text{Mass}}{\text{Bulk volume}}$$

$$\rho_b = m/v_b$$

Weight of sample =

Volume of sample =

Bulk density =

Tapped density: the measuring cylinder containing a known mass of granules was tapped for 100 times using a bulk density apparatus. The minimum volume (v_t) occupied in the cylinder and the weight (m) of the granules was measured. The tapped density (ρ_t) was calculated using the formula.

$$\text{Tapped density} = \frac{\text{Mass}}{\text{Tapped volume}}$$

$$\rho_b = m/v_b$$

Tapped volume =

Tapped density =

Carr's index: It is the measure of potential strength that a powder could build up in its arch in a hopper and also the ease with which such an arch could be broken. Compressibility index of the granules was determined by using the formula.

$$\text{Carr's Index (\%)} = \frac{\text{Tapped density} - \text{Bulk density}}{\text{Tapped density}} \times 100$$

Bulk density =

Tapped density =

Ci =

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Carr's index (%)	Type of flow
5-15	Excellent
12-16	Good
18-21	Fair to passable
23-35	Poor
33-38	Very poor
>40	Extremely poor

Hausner's ratio: It is the measure of the flow property of the drug.

$$\text{Hausner's ratio} = \frac{\text{Tapped density}}{\text{Bulk density}}$$

$$\text{Hausner's ratio} = \text{pt/pb}$$

Angle of repose: It is the maximum angle possible between the surface of the pile of the powder and the horizontal plane. The angle of repose was measured by using funnel method, which indicates the flow ability of the granules.

Angle of repose is determined by the following formula.

Angle of repose (θ):

Height: Radius:

$$\theta = \tan^{-1}(h/r) =$$

where θ = angle of repose

h and r are the height and radius of the powder cone.

$$\theta = \tan^{-1} h/r =$$

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Angle of repose (θ)	Type of flow
<25	Excellent
25-30	Good
30-40	Fair/passable
>40	Very poor

Solubility analysis: The solubility of drug is an important physicochemical property because it effects the bioavailability of the drug, the rate of drug release into dissolution medium and consequently, the therapeutic efficiency of the pharmaceutical product. This is a valuable step in developing a formulation. Solubility is usually determined in variety of commonly used solvents and some oils if the molecules are lipophilic. The solubility of material is usually determined by the saturated/ equilibrium solubility method, which employs a saturated solution of the material, where excess quantity of drug is taken in 10 ml of each solvent and occasionally stirred for 24hrs at room temperature and sample was filtered and filtrate was suitably diluted and analyzed spectrophotometrically at 249 nm.

Solubility	Parts of solvent required for 1 part of solute
Very soluble	Less than 1
Freely soluble	From 1 to 10
Soluble	From 10 to 30
Sparingly soluble	From 30 to 100
Slightly soluble	From 100 to 1000
Very slightly soluble	From 1000 to 10000
Practically insoluble	10000 or more

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Results:

The preformulation parameters of thewere found to be

Bulk density:

Tapped density:

Carr's Compressibility Index:

Hausner's ratio:

Angle of repose:

Questions

1. Define bulk density.
2. Define tap density.
3. Explain compressibility index.
4. Explain the importance of excipients use in manufacturing of tablets.
5. Define angle of repose.

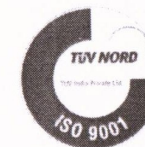
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Assessment of experiment conducted						
GLP/GMP (01)	Performance & Skills (03)	Calculations & Observations (2)	Result (02)	Attendance (02)	Total Marks (10)	Student sign



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Internal Audit Observation Sheet

Department / Section: SYIPER B Pharmacy


Audit Sl. No. 10-20/018

Date: 21.09.2020

Auditor: Deepak Nimburge

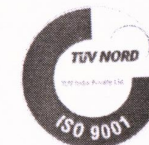
Auditee: Mr. Milind Kamble - HOD

Sl. No.	Question / Check Requirements	Document Reference / Clause	Observations	Remarks
1.	Testing for Covid -19	Clause 4.1	Sanitizer, Temperature Meter and Pulse Oximeter are available but records for the same are not available for the staff and visitors. An employee check list can be introduced	
2.	Quality Policy	Clause 5.2	Available displayed. Awareness is okay	
3.	List of teaching staff	STC/PR/09	Total – 12 Nos.	C
4.	Quality Objectives	Clause 6.2	Not Monitored	NC
5.	Admissions	STC/PR/06	FY – on going, SY – 93 intake 100, TY – 129, FY – 92 .	
6.	Marketing Activity	STC/PR/51	College Visits – 09 Nos., Essay Competition 150 students participated, Whats App groups for 12 th science students and messages to them (2500 Nos.)	
7.	Academic Calendar	STC/PR/07	As per University Term Starts : Aug 05, 2020, term end – December 19, 2020. Institute has started On Line classes started on 02 nd July 2020	C
8.	Load Distribution	STC/PR/08	# PR008/F0405/00 wef 10.07.2020	C
9.	Class Time Table	STC/PR/08	STC/PR008/F/03, Verified for Third Year (Format No.) is missing. Checked for Arundhati Deokar for Pharma Cognacy and Phyto Chemistry.	OFl
10.	Individual Time Table	STC/PR/08	Not prepared	C
11.	Teaching	STC/PR/09	Verified the on line class of Pallavi Bhosale on 19 th Sept 20 for NDDS, 70 students present out of 92 Nos. Verified notes for the same. Notes approval not evident - Course file for the on line classes not evident for all staff	C OFl


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12.	On Line teaching training	STC/PR/26	Attended webinar on Effective Tools for online Teaching – Learning Process 31 st May 2020 by Minal Chaudhari. Training are records not updated.	C OFI
13.	Attendance	STC/PR/10	Attendance sheets are available in the form of Screen shots, attendance sheets are not updated as per system.	OFI
14.	Syllabus	STC/PR/09	Available checked for Microbiology for IInd Year theory and Practical. Practical are demonstrated	
15.	Teaching Notes	STC/PR/09	Available for NDDS by Prof Pallavi, evidence of review and approval not there.	OFI
16.	List of Practicals for Microbiology and Equipments available	STC/PR/26	Microbiology for IInd year, Practical – 10 Nos.	C
17.	Dead Stock Register	STC/PR/09	Equipments Available for Microbiological analysis like Incubator, Auto Clave . Auto clave records are available in Central dead stock register, but Incubator not recorded.	C OFI
18.	Consumables register	STC/PR/09	Available, Verified for potassium Hydrogen Phtalate 450 g available. MSDS available in SOFT copy in computer. It can be made available at the point of use. Ethyl Acetate 950 gms available as per register, actual 450 ml.	OFI
19.	Calibration	STC/PR/37	Calibration records not updated after 2018 for medicine chemistry	NC
20.	Dead Stock Verification	STC/PR/38	Verification of dead stock not evident for year 2020	
21.	Preventive Maintenance of Equipments and Breakdown	STC/PR/36	Available	C C
22.	Unit Test	STC/PR/11	Conducted on line date 07 May 2020 for HDT for Third Year, No. of students appeared 34 Nos. Passed 31 Nos., Absent: 59 Nos.	


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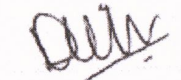
Auditor: Deepak Nimburge

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23.	Defaulter List	STC/PR/10	Verified for the month of Aug 20, 02 students are found defaulter with attendance 34.33 and 41.76 %.	C
24.	Result Analysis	STC/PR/17	Dec 2019 First year first semester. Total Students: 90 Appeared 87, Passed 46 failed 37. Passed % 55.42 Subject: Highest : CSK – 96.38 % Lowest : PA I – 68 %. Root cause and Corrective actions not evident	OFI
25.	Student Feedback	STC/PR/20	Not available for 2019, 2020. Last feedback available is on 27.12.2018	OFI
26.	Industrial Visit	STC/PR/18	Visit to IPCA Laboratories dated 22.02.2020 for First Year B Pharm, 37 Nos. of students visited	C
27.	Teacher Guardian	STC/PR/16	TG activities not evident, only appointment letters and batched allotted data is available	OFI
28.	Extra Curricular activities	STC/PR/27	Last one day workshop was conducted on 9 th March 2019. No activities are evident after that	OFI
29.	Guest Lectures	STC/PR/19	02 guest lectures conducted in academic year 2019-20, last lecture was conducted on 25 th Feb 2020 on GMP by Vaibhav Shinde.	OFI
30.	Student Complaints	STC/PR/59	Student Complaints not recorded	OFI




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 Auditor Signature

List of various teaching pedagogies

(2019-20)

1. **Lecture:** Traditional method where the teacher presents information to students orally.
2. **Demonstration:** Showing students how to do something, often with visual aids or practical examples.
3. **Discussion:** Encouraging students to participate in dialogue, share ideas, and debate concepts.
4. **Collaborative Learning:** Group-based activities where students work together to achieve learning goals.
5. **Project-Based Learning (PjBL):** Similar to PBL, but focused on completing a project to demonstrate learning.
6. **Flipped Classroom:** Students learn new content at home through videos or readings, and then do activities or discussions in class.
7. **Inquiry-Based Learning:** Students explore questions, problems, or scenarios to develop understanding.
8. **Experiential Learning:** Hands-on learning through direct experience and reflection.
9. **Constructivism:** Students construct their understanding and knowledge through experiences and reflecting on those experiences.
10. **Socratic Method:** A form of cooperative argumentative dialogue between individuals, based on asking and answering questions to stimulate critical thinking.
11. **Differentiated Instruction:** Adapting teaching methods and curriculum to individual student needs and learning styles.
12. **Direct Instruction:** Teacher-centered approach where the teacher transmits information directly to students, often using structured lesson plans.
13. **Holistic Education:** Focuses on the development of the whole person, including intellectual, emotional, social, physical, artistic, creative, and spiritual dimensions.
14. **Outdoor Education:** Learning experiences that take place in natural settings, emphasizing environmental education and experiential learning.
15. **Virtual Learning:** Education delivered electronically through various forms of multimedia, typically over the internet.
16. **Blended Learning:** Combining traditional face-to-face instruction with online learning activities.

These pedagogies can be used individually or in combination, depending on educational goals, student needs, and subject matter. Each approach has its strengths and is suited to different learning objectives and classroom dynamics.




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Approved by AICTE, New Delhi, Government of Maharashtra, DTE Mumbai (DTE Code- 2572) and
Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, & Maharashtra State Board
of Technical Education (MSBTE), (MSBTE Code- 1838) Mumbai

11/07/19

ACADEMIC PROGRAMME COMMITTEE

DUTIES:

- 5) Periodically reviewing the progress of the classes.
- 6) Discussing the problems concerning curriculum, syllabus and the conduct of classes.
- 7) Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of the respective semesters.
- 8) Communicating its recommendation to the head of the institution on academic matters.

MEETINGS:

The above class mentoring committee will meet before and after sessional examinations and whenever required.

CONSTITUTION:

The details of members are as follows:

Sr. No.	Name of Member	Designation
1	Dr. Ganesh G. Tapadiya	Chairman
2	Dr. Milind D. Kamble	Head of Department (Pharmaceutics)
3	Ms. Vidya Magar	Academic In-charge
4	Mr. Mahendra Khandare	Examination Cell In-charge
5	Ms. Vishakha Shelke	Member
6	Mrs. Arundhati Deokar	Member
7	Mr. Rohit Udavant	Student Representatives
8	Ms. Kumavat Rutuja	Student Representatives

Ms. Vidya Magar

Academic In-Charge
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Dr. Ganesh G. Tapadiya

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