



हिमाचल प्रदेश तकनीकी विश्वविद्यालय
HIMACHAL PRADESH TECHNICAL UNIVERSITY
(A STATE GOVERNMENT UNIVERSITY)

(ACADEMIC CALENDAR FOR THE ACADEMIC SESSION 2021-22)
ODD SEMESTER

Sr. No	Event	Date	Remarks
1.	SUMMER VACATIONS FOR FACULTY & STAFF.	20.08.2021 to 12.09.2021	
2.	REPORTING DATE FOR FACULTY & STAFF.	13.09.2021	
3.	REGISTRATION FOR UNDER-GRADUATE & POST GRADUATE CLASSES	15.09.2021	For 3 rd & 4 th year of UG Courses and 2 nd Year of PG Courses including MCA 3 rd Year.
		01.10.2021	For 1 st & 2 nd Year of UG Courses and 1 st Year of PG Courses
4.	COMMENCEMENT OF UNDER-GRADUATE & POST GRADUATE CLASSES	15.09.2021	For 3 rd & 4 th year of UG Courses and 2 nd Year of PG Courses including MCA 3 rd Year
		01.10.2021	For 1 st & 2 nd Year of UG Courses and 1 st Year of PG Courses
5.	LAST DATE FOR REGISTRATION BY THE COLLEGE	20.09.2021	For 3 rd & 4 th year of UG Courses and 2 nd Year of PG Courses including MCA 3 rd Year
		05.10.2021	For 1 st & 2 nd Year of UG Courses and 1 st Year of PG Courses
6.	MANDATORY INDUCTION PROGRAMME FOR FIRST YEAR STUDENTS (1 WEEK) FOLLOWED BY THE REGULAR CLASSES.	01.10.2021 to 08.10.2021	
7.	CLASSES AND 1 st & 2 nd PERIODICAL EXAMINATIONS	15.09.2021 to 15.01.2022	For 3 rd & 4 th year of UG Courses and 2 nd Year of PG Courses including MCA 3 rd Year
		01.10.2021 to 31.01.2022	For 1 st & 2 nd Year of UG Courses and 1 st Year of PG Courses
8.	END OF CLASSES WORK	15.01.2022	For 3 rd & 4 th year of UG Courses and 2 nd Year of PG Courses including MCA 3 rd Year
		31.01.2022	For 1 st & 2 nd Year of UG Courses and 1 st Year of PG Courses


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9.	END SEMESTER EXAMINATIONS	PRACTICAL	17.01.2022 to 20.01.2022	For 3 rd & 4 th year of UG Courses and 2 nd Year of PG Courses including MCA 3 rd Year
			02.02.2022 to 05.02.2022	For 1 st & 2 nd Year of UG Courses and 1 st Year of PG Courses
10.	END SEMESTER EXAMINATIONS	THEORY	24.01.2022 to 12.02.2022	For 3 rd & 4 th year of UG Courses and 2 nd Year of PG Courses including MCA 3 rd Year
			07.02.2022 to 25.02.2022	For 1 st & 2 nd Year of UG Courses and 1 st Year of PG Courses

NOTE:

1. ALL AFFILIATING COLLEGES SHALL FOLLOW THE ACADEMIC CALENDAR STRICTLY. THE WORKING SHALL BE FOR SIX DAYS (MONDAY TO SATURDAY) EXCEPT PUBLIC HOLIDAYS FROM 9 A.M. TO 5 P.M.
2. ACADEMIC CALENDAR IS TENTATIVE AND WILL DEPEND UPON THE ADVISORY AND GUIDELINES ISSUED BY DIFFERENT CONCERNED AUTHORITIES FROM TIME TO TIME


Dean (Academic)

Dean
H.P. Technical University
Hamirpur - 177001


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HIMACHAL PRADESH TECHNICAL UNIVERSITY
 (A STATE GOVERNMENT UNIVERSITY)


(ACADEMIC CALENDAR FOR EVEN SEMESTER OF THE ACADEMIC SESSION 2021-22)

Sr. No	Events	Date
1	Vacations for Faculty & Staff.	03.03.2022 to 31.03.2022
2	Reporting Date for Faculty & Staff.	01.04.2022
3	Registration for Under- Graduate & Post Graduate classes	01.04.2022 to 08.04.2022
4	Commencement of Under- Graduate & Post Graduate classes	01.04.2022
5	1 st Periodical Examinations	09.05.2022 to 13.05.2022
6	HPTU Youth Festival (place and venue to be notified separately)	21.05.2022 to 22.05.2022
7	2 nd Periodical Examination	28.06.2022 to 02.07.2022
8	End of Classes Work	08.07.2022
9	Reporting of shortage of attendance cases and display of internal sessional awards	11.07.2022
10	End Semester Practical Examinations	12.07.2022 to 16.07.2022
11	Start of End Semester Theory Examinations	18.07.2022

NOTE:

1. All affiliating colleges shall follow the academic calendar strictly. The working shall be for six days (Monday to Saturday) except public holidays from 09:00 A.M. To 05:00 P.M.
2. Academic Calendar is tentative and will depend upon the advisory and guidelines issued by different concerned authorities from time to time


 Dean (Academic)


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	Sharma	Biopharm					02				
		Biotech					04				
		NDDS								06	
15.	Ms. Arti Devi	POC I		03							16
		Med Chem			04	09					
16.	Mr. Ankush Sharma	Biopharm					02				11
		Biochem.		06							
		POC		03							
17.	Mr. Ajay Kumar	Quality Assurance					04				04
18.	Ms. Pooja Kaushal	IMA							04	06	10
19.	Ms. Upasana Thakur	P. O.C. III			04						04
20.	Ms. Alka Gautam	HDT						12			12
21.	Ms. Dimple Rana	Biotech					04				13
		P' Cology				09					
22.	Mr. Rohit Kumar	Med Chem I				03					09
		Med. Chem.						06			
23.	Ms. Astha Sharma	P' Org. Chem.	04	06							14
		P. O.C. III			04						
24.	Mr. Ankit Sharma	Med. Chem.					04				13
		Med Chem				09					
25.	Ms. Shavinder	HAP II									15
		Pharmacology I	04		04						

		Pharmacology II					02				
		Pharmacology III						05			
26.	Ms. Arti Rana	Pathophysiology	04								
		Pharmacology II					06	06			16
27.	Dr. Shubham Sharma	Pathophysiology	04								
		Pharmacology I				03					13
		Pharmacology II						06			
28.	Mr. Nikhil Sharma	Biochem		06							06
29.	Ms. Anisha	HAP II		06							
		Pharmacology III							06		12
30.	Ms. Pratibha Chaudhary	Physical pharmacy				06					06
31.	Ms. Anchal Guleria	EVS	03								03
32.	Dr. Pratima Ashawat	Biochem.	08								08
33.	Ms. Shriya Sharma	Computer Science	06	12							18

WORKLOAD OF PHARMACY FACULTY (Jan to June 2022)

S. N.	Name	Subject	B.Pharm (in Hrs)								Total Workload (in Hrs)	
			I		II		III		IV			
			Th.	Pr.	Th.	Pr.	Th.	Pr.	Th.	Pr.		
1.	Dr. M S Ashawat	-										-
2.	Dr. Vinay Pandit	-										-
3.	Prof. C P S Verma	HDT					08					08
4.	Dr. Amardeep	P' Org. Chem.	04									04
5.	Dr. Anjana	HAP II	02									02
6.	Mr. Pravin Kumar	Regulatory affairs							02			04
		Biostatistics							02			
7.	Mr. Shiv Kumar Kushwaha	HAP II	02									06
		Pharmacology					04					
8.	Mr. Shammy Jindal	Regulatory affairs							02			04
		Biostatistics							02			
9.	Mrs. Kamyia Jindal	Biochem.		03								11
		Med. Chem.			04							
		Med. Chem.					04					
10.	Mr. Nishant Ga utam	HAP II	02									06
		Pharmacology				04						
11.	Miss Rinu Rana	P' CognosyI			08	12						20
12.	Mr. Devraj Sharma	Computer		09								13
		Biopharm					04					
13.	Ms. Archana Chaudhary	Biopharm.					04					08
		Biotech					04					
14.	Mr. Tarun Sharma	Regulatory affairs							02			02

15.	Ms. Arti Devi	Med. Chem.			04	09						15
		Quality Assurance					02					
16.	Mr. Ankush Sharma	Computer		03								13
		Biochem.		06								
		Biotech.					04					
17.	Mr. Ajay Kumar	Physical Pharmacy			04	06						10
18.	Ms. Pooja Kaushal	P' Org. Chem.		03								07
		Quality Assurance					04					
19.	Ms. Upasana Thakur	P. O.C. III			02							10
		Med Chem					02	06				
20.	Ms. AlkaGautam	HAP II		03								14
		P' Cology						03				
		HDT						06				
		P' vigilance							02			
21.	Ms. Dimple Rana	EVS	03									13
		Physical Pharmacy				04	06					
22.	Mr. Rohit Kumar	Biochem.		03								16
		P. O.C. III				02						
		Med. Chem.						02	09			
23.	Ms. Astha Sharma	P' Org. Chem.	02	03								12
		P. O.C. III				04						
		Med. Chem.					03					
24.	Mr. Ankit Sharma	P' Org. Chem.	02	06								10
		Quality Assurance						02				
25.	Ms. Shavinder	HAP II		06								14
		Pathophysiology	04									
		Pharmacology				04						
26.	Ms. ArtiRana	Pathophysiology	04									16
		HAP II				04						

		Pharmacology	02			06					
27.	Dr. Shubham Sharma	Pharmacology III						06			12
		Social Pharmacy							04		
		P' vigilance							02		
28.	Ms. Anisha	Pharmacology				03					09
		Pharmacology III						06			
29.	Ms. Pratibha Chaudhry	HDT						06			10
		P' vigilance								04	
30.	Ms. Anchal Guleria	HAP II		03							10
		EVS	03								
		Social Pharmacy								04	
31.	Dr. Pratima Ashawat	Biochem.	08								08
32.	Mr. Manish Kumar	Biostatistics							04		04
33.	Ms. Shriya Sharma	Computer Science	06								06

M. Pharm

WORKLOAD OF PHARMACY FACULTY (Jan 2022 to June 2022)

Sr. no.	Name	Subject	No. Of hours		Total Workload (in Hrs)
			Theory	Practical	
1	Dr. M S Ashawat	Cosmetics &cosmeceuticals	02	-	02
2	Dr. VinayPandit	Biopharmaceutics&P'kinetics	04	06	10
3	Dr. Amardeep	Adv. Inst. Analysis	04	03	09
		Modern Bioanalytical Techniques	02		
		PA & QA			
4	Dr. Anjana	Drug discovery	04		06
		PTSM	02		
5	Mr. Shammy Jindal	Molecular P'ceutics	04	06	10
6	Mr. Pravin Kumar	Computer aided DDS	02	06	08
7	Mr. Shiv Kumar Kushwaha	Adv. P' cology	02	06	08
		Pharmacology			
8	Ms. Kamyia Jindal	Pharm Mfg. Technique	02		02
9	Mr. NishantGautam	Clinical & P' vigilance	02	06	08
		Pharmacology			
10	Mr. Tarun Sharma	Computer aided DDS	02	06	10
		Cosmetics &cosmeceuticals	02		
11	Ms. Arti Devi	Pharm. Validation	02		02
12	Mr. Rohit Kumar	Adv. Inst. Analysis	02		02
13	Ms. PoojaKaushal	Pharm. Validation	02	06	08
		PA & QA			
14	Mr. Ankit Sharma	PA & QA		06	06
15	Ms. Upasana Thakur	Modern Bioanalytical	02		08

		Techniques		06	
		PA & QA			
16	Dr. Shubham Sharma	Clinical & P' vigilance	02		02
17	Ms. Shavinder	Adv. P' cology	02		02
18	Ms. Anisha	Pharmacology		06	06
19	Ms. Astha	Pharm Mfg. Technique	02		02
20	Ms. ArtiRana	PTSM	02		02

w.e.f. -20th Dec 2021

Time-Table for 1st Semester (Section-A)

Days	9:30 AM – 12:30 P M			12:30PM - 1:30PM	1:30PM – 4:30PM	
	Theory			LUNCH BREAK	Practical/Theory	
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		A-Batch	B-Batch
Mon.	Human Anatomy & Physiology I (SKK)	Introduction to Pharmaceutics (PK)	P. Analysis I (AA)		Introduction to Pharmaceutics (PK)	P. Inorganic Chemistry (Ankit)
Tue.	Human Anatomy & Physiology I (SKK)	P. Analysis I (AA)	Introduction to Pharmaceutics (PK)		P. Inorganic Chemistry (AS)	Introduction to Pharmaceutics (Anisha)
Wed.	Human Anatomy & Physiology I (AR)	P. Inorganic Chemistry (DK)	Introduction to Pharmaceutics (PK)		Human Anatomy & Physiology I (SKK)	P. Analysis I (AD)
Thur.	P. Inorganic Chemistry (AS)	Introduction to Pharmaceutics (MSA)	Communication skills (DR)		P. Analysis I (AD)	Human Anatomy & Physiology I (SKK)
Fri.	Rem Bio/ Rem Maths (PA, MK)	P. Analysis I (AD)	Human Anatomy & Physiology I (AR)		1:30-2:30PM	Practical 2:30PM – 4:30PM
					P. Inorganic Chemistry (AS)	Communication skills (DR)
Sat.	Rem Bio/ Rem Maths (PA, MK)	Communication skills (DR)	P. Analysis I (AD)		P. Inorganic Chemistry (DK)	Remedial Biology Practical (SS)

MSA: Dr. M S Ashawat; DK: Dr. Dharmendra Kumar; PA: Dr. Pratima Ashawat; PK: Mr. Pravin Kumar; SKK: Mr. Shiv Kumar Kushwaha;
 AD: Ms. Arti Devi; Ms. Anisha; Mr. Ankit Sharma; AS: Ms. Astha Sharma; SS: Dr. Shubham Sharma; AR: Ms. Arti Rana;
 DR: Mr. Devroop

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w.e.f. - 20th Dec 2021

Time-Table for 1st Semester (Section-B)

Days	9:30AM – 12:30 P M			12:30PM - 1:30PM	1:30PM – 4:30PM	
	Theory			LUNCH BREAK	Practical/Theory	
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		A-Batch	B-Batch
Mon.	Introduction to Pharmaceutics (SJ)	P. Analysis (PK)	Human Anatomy & Physiology I (SK)		Human Anatomy & Physiology I (NG)	P. Analysis I (PK)
Tue.	P. Inorganic Chemistry (AS)	Communication skills (DR)	P. Analysis (PK)		P. Analysis I (UP)	Human Anatomy & Physiology I (NG)
Wed.	Introduction to Pharmaceutics (SJ)	Introduction to Pharmaceutics (VP)	P. Analysis (AA)		Introduction to Pharmaceutics (Anisha)	P. Inorganic Chemistry (AS)
Thur.	Human Anatomy & Physiology I (NG)	P. Analysis (AA)	P. Inorganic Chemistry (DK)		P. Inorganic Chemistry (KJ)	Introduction to Pharmaceutics (SJ)
Fri.	Rem Bio/ Rem Maths (PA, MK)	Communication skills (DR)	Human Anatomy & Physiology I (NG)		1:30-2:30PM	Practical 2:30PM – 4:30PM
					P. Inorganic Chemistry (DK)	Remedial Biology Practical (SS)
Sat.	Rem Bio/ Rem Maths (PA, MK)	Human Anatomy & Physiology I (SK)	Introduction to Pharmaceutics (SJ)		P. Inorganic Chemistry (AS)	Communication skills Practical (DR)

VP: Dr. Vinay Pandit; DK: Dr. Dharmendra Kumar; PA: Dr. Pratima Ashawat; SJ: Mr. Shammy Jindal; NG: Mr. Nishant Gautam;
 UP: Ms. Upasana Thakur; PK: Ms. Pooja Kaushal; Ms. Anisha; SS: Dr. Shubham Sharma; AS: Ms. Astha Sharma;
 SK: Ms. Shavinder Kumari; DR: Mr. Devroop

[Signature]
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w.e.f. - 20th Dec 2021

Time-Table for 3rd Semester (Section-A)

Days	9:30AM-12:30PM			12:30PM 1:30PM	1:30PM – 4:30PM		
	Practical/Theory			LUNCH BREAK	Theory		
	A-Batch	B-Batch			1:30-2:30	2:30-3:30	3:30-4:30
Mon.	Pharm. Engineering (AD)	Physical Pharmacy (Anisha)			Physical Pharmacy (TS)	O. Chemistry (KJ)	Microbiology (AS)
Tue.	Physical Pharmacy (TS)	Pharm. Engineering (AD)			Microbiology (AS)	Weekly test (Pharm Eng.)	Physical Pharmacy (TS)
Wed.	Microbiology (AG)	O. Chemistry (PK)			Microbiology (AS)	Weekly test (Org Chem)	Physical Pharmacy (TS)
Thur.	O. Chemistry (PK)	Microbiology (AG)			Microbiology (AS)	Pharm. Engineering (AK)	Physical Pharmacy (TS)
Fri.	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		Pharm. Engineering (AK)	O. Chemistry (KJ)	Weekly test (Physical Pharmacy)
	Pharm. Engineering (AK)	O. Chemistry (KJ)	Weekly test (Microbiology)				
Sat.	Pharm. Engineering (AK)	Library	O. Chemistry (KJ)		GPAT COACHING		

KJ: Ms. Kanya Jindal; AG: Ms. Alka Gautam; TS: Mr. Tarun Sharma; AD: Ms. Arti Devi; PK: Ms. Pooja Kaushal;
AS: Mr. Ankush Sharma; AK: Mr. Ajay Kumar; Ms. Anisha

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w.e.f. - 26th Dec 2021

Time-Table for 3rd Semester (Section-B)

Days	9:30AM-12:30PM			12:30PM 1:30PM	1:30PM – 4:30PM		
	Practical/Theory			LUNCH BREAK	Theory		
	A-Batch		B-Batch		1:30-2:30	2:30-3:30	3:30-4:30
Mon.	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30	LUNCH BREAK	Microbiology (AS)	O. Chemistry (UP)	Pharm. Engineering (DR)
	Pharm. Engineering (DR)	Microbiology (AS)	Weekly test (Org Chem)				
Tue.	O. Chemistry (Ankit)	Weekly test (Microbiology)	Physical Pharmacy (AC)		Weekly test (Physical Pharmacy)	Pharm. Engineering (DR)	Microbiology (AS)
Wed.	Pharm. Engineering (DR)		Physical Pharmacy (AC)		O. Chemistry (Ankit)	Physical Pharmacy (AC)	Weekly test (Pharm Eng.)
Thur.	Physical Pharmacy (AC)		Pharm. Engineering (DR)		O. Chemistry (Ankit)	Library	Physical Pharmacy (AC)
Fri.	Microbiology (AS)		O. Chemistry (UP)		Microbiology (AS)	Physical Pharmacy (AC)	Pharm. Engineering (DR)
Sat.	O. Chemistry (UP)		Microbiology (AS)		GPAT COACHING		

AC: Ms. Archana Chaudhary; UP: Ms. Upasana Thakur; AS: Mr. Ankush Sharma; DR: Ms. Dimple Rana; Mr. Ankit Sharma


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w.e.f. - 20th Dec 2021

Time-Table for 5th Semester (Section-A)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
	Practical/Theory				Theory		
	A-Batch	B-Batch			1:30-2:30	2:30-3:30	3:30-4:30
Mon.	Industrial Pharmacy (DS)	Weekly Test (AS/DR/AG)		LUNCH BREAK	P. Jurisprudence (DS)	P'cology I (SK)	Industrial Pharmacy (DS)
Tue.	P. Cognosy (AG)	Industrial Pharmacy (DS)			Industrial Pharmacy (DS)	P. Cognosy (AG)	P'cology I (SK)
Wed.	P'cology I (RK)	P. Cognosy (RR)			P. Jurisprudence (DR)	P. Cognosy (AG)	Industrial Pharmacy (DS)
Thur.	Weekly Test (DS/AS)	P'cology I (SK)			Industrial Pharmacy (DS)	P. Jurisprudence (DR)	P'cology I (SK)
Fri.	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		P. Jurisprudence (DS)	P'cology I (SK)	Med Chem (AS)
	Med Chem (AS)	P. Cognosy (AG)	Library		GPAT COACHING		
Sat.	Med Chem (AS)	P. Cognosy (AG)	Med Chem (AS)				

CPS: Prof. CPS Verma; RR: Ms. Rinu Rana; DS: Mr. DevRaj Sharma; AG: Ms. Alka Gautam; RK: Mr. Rohit Kumar;
 DR: Ms. Dimple Rana; SK: Ms. Shavinder Kumari; AS: Ms. Astha Sharma


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w.e.f. - 20th Dec 2024

Time-Table for 5th Semester (Section-B)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM			
	Practical/Theory				Theory			
	A-Batch	B-Batch			1:30-2:30	2:30-3:30	3:30-4:30	
Mon.	P. Cognosy (RR)		P'cology I (AR)		LUNCH BREAK	P'cology I (AR)	P. Jurisprudence (Anisha)	Industrial Pharmacy (SJ)
Tue.	9:30 – 10:30 Industrial Pharmacy (Anisha)	10:30 – 11:30 P. Cognosy (CPS)	11:30 – 12:30 Med Chem (KJ)	Med Chem (KJ)		P. Jurisprudence (AK)	P'cology I (AR)	
Wed.	Med Chem (UP)	P. Cognosy (CPS)	P'cology I (RK)	Industrial Pharmacy (SJ)		Library	P. Jurisprudence (AK)	
Thur.	A-Batch		B-Batch			P. Jurisprudence (Anisha)	P. Cognosy (CPS)	Med Chem (UP)
	Weekly Test (CPS/Anisha)		P. Cognosy (RR)			P'cology I (RK)	P. Cognosy (CPS)	Industrial Pharmacy (Anisha)
Fri.	Industrial Pharmacy (DR)		Weekly Test (AR/Anisha/KJ)			GPAT COACHING		
Sat.	P'cology I (AR)		Industrial Pharmacy (DR)					

CPS: Prof. CPS Verma; SJ: Mr. Shammy Jindal; KJ: Ms. Kanya Jindal; RR: Ms. Ritu Rana; UP: Ms. Upasana Thakur;
 Ms. Anisha; DR: Ms. Dimple Rana; RK: Mr. Rohit Kumar; AK: Mr. Ajay Kumar; AR: Ms. Arti Rana


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w.e.f. - 20th Dec 2024

Time-Table for 7th Semester (Section-A)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM	
	Theory			LUNCH BREAK	Practical	
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		A-Batch	B-Batch
Mon.	P. Practice (SS)	NDDS (AC)	Weekly Test (AC)		Practice school	Practice school
Tue.	P. Practice (SS)	Weekly Test (AS)	NDDS (MSA)		Practice school	Practice school
Wed.	P. Practice (SS)	Analysis (AS)	Industrial Pharmacy II (DS)		Analysis (AS)	Practice school
Thur.	P. Practice (SS)	Analysis (AS)	Industrial Pharmacy II (DS)		Practice school	Analysis (AS)
Fri.	Industrial Pharmacy II (DS)	NDDS (AC)	Analysis (AS)		Practice school	Practice school
Sat.	Industrial Pharmacy II (DS)	Analysis (AS)	NDDS (AC)		1:30- 3:00 pm Weekly Test (DS)	3:00- 4:30 pm GPAT COACHING

MSA: Dr. M S Ashawat; DS: Mr. DevRaj Sharma; AC: Ms. Archana Chaudhary; AS: Mr. Ankit Sharma; SS: Dr. Shubham Sharma


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w.e.f. - 20th Dec 2024

Time-Table for 7th Semester (Section-B)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
	Theory			LUNCH BREAK	Practical		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		A-Batch	B-Batch	
Mon.	Analysis (RK)	NDDS (MSA)	P. Practice (SS)		Analysis (RK)	Practice school	
Tue.	Analysis (RK)	Weekly Test (SS)/ Comm. skills (DR)*	P. Practice (SS)		Practice school	Analysis (RK)	
Wed.	NDDS (DS)	Industrial Pharmacy II (TS)	P. Practice (SS)		Practice school	Practice school	
Thur.	Industrial Pharmacy II (TS)	Analysis (RK)	P. Practice (SS)		Practice school	Practice school	
Fri.	Industrial Pharmacy II (TS)	Weekly Test (TS)/ Comm. skills (DR)*	NDDS (DS)		Practice school	Practice school	
Sat.	Analysis (RK)	Industrial Pharmacy II (TS)	NDDS (DS)		1:30- 3:00 pm Weekly Test (RK)	3:00- 4:30 pm GPAT COACHING	
					For Lateral entry students: 1:30-2:30 pm: Weekly test 2:30-4:30 pm: Comm. Skills Practical		

MSA: Dr. M S Ashawat; DS: Mr. DevRaj Sharma; TS: Mr. Tarun Sharma; RK: Mr. Rohit Kumar; SS: Dr. Shubham Sharma; DR: Mr. Devroop

*Communication skills for Lateral Entry students


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W.e.f. 20th Dec 2021

M. Pharm (Pharmaceutics) Sem I

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
Mon.	Modern Pharmaceutics Practical (VP)			LUNCH BREAK	MPAT (AA)	Modern Pharmaceutics Practical (VP)	
Tue.	Drug Delivery System (PK)	Journal Club	Modern P ^h ceutics (VP)		Regulatory Affair (TS)	MPAT (AA)	Literature review
Wed.	MPAT (AA)	Drug Delivery System (MSA)	Literature review		Regulatory Affair (TS)	Modern P ^h ceutics (VP)	MPAT (AA)
Thur	Drug Delivery System (PK)				Drug Delivery System (PK)		
Fri.	MPAT Practical (AA)				MPAT Practical (AA)		
Sat.	Drug Delivery System (PK)	Drug Delivery System (MSA)	Modern P ^h ceutics (VP)		Regulatory Affair (TS)	Modern P ^h ceutics (VP)	Regulatory Affair (TS)

MSA: Dr. M S Ashawat; VP: Dr. VinayPandit; AD: Dr. Amardeep; PK: Mr. Pravin Kumar; TS: Mr. Tarun Sharma


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Wierf. 20th Dec 2021

M. Pharm (Pharmaceutical Analysis & Quality Assurance) Sem I

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
Mon	Quality Mgt (KJ)	Herbal And Cosmetic Analysis (CPS)	Herbal And Cosmetic Analysis (UP)	LUNCH BREAK	MPAT (AA)	Herbal And Cosmetic Analysis (CPS)	Quality Mgt (DK)
Tue	QA & QC (PK)	Quality Mgt (DK)	QA & QC (AD)		QA & QC (PK)	MPAT (AA)	Herbal And Cosmetic Analysis (PK)
Wed	MPAT (AA)	QA & QC (AD)	Literature review		Quality Mgt (KJ)	Journal Club	MPAT (AA)
Thur	PA & QA Practical (UP)				PA & QA Practical (AS)		
Fri	MPAT Practical (AA)				MPAT Practical (AA)		
Sat	PA & QA Practical (DK)				PA & QA Practical (KJ)		

PS: Prof. CPS Verma; AA: Dr. Amardeep; DK: Dr. Dharmendra Kumar; KJ: Ms. Kanya Jindal; AD: Ms. Arti Devi; PK: Ms. Pooja Kaushal;

UT: Ms. Upasana Thakur; AS: Ms. Astha Sharma



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M. Pharm (Pharmacology) Sem I

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
	Mon.	Cellular P'cology (NG)	Advanced P'cology (SKK)		Toxicology (Anjana)	LUNCH BREAK	MPAT (AA)
Tue.	Cellular P'cology (NG)	Cellular P'cology Seminar	Advanced P'cology (SKK)	Journal Club	MPAT (AA)		Toxicology (Anjana)
Wed.	MPAT (AA)	Cellular P'cology (NG)	Advanced P'cology (SKK)	Toxicology (Anjana)	Literature review		MPAT (AA)
Thur.	Pharmacology Practicals (Anjana)			Pharmacology Practicals (NG)			
Fri.	MPAT Practical (AA)			MPAT Practical (AA)			
Sat.	Pharmacology Practicals (Anjana)			Pharmacology Practicals (SKK)			

Dr. Anjana

AD: Dr. Amardeep; SKK: Mr. Shiv Kumar Kushwaha; NG: Mr. Nishant Gautam


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w.e.f. 26th Dec 2021

M. Pharm (Pharmaceutics) Sem III

M. Pharm (Pharmaceutical Analysis & Quality Assurance) Sem III

Days	9:30 AM – 12:30 P M			12:30PM - 1:30PM	1:30PM – 4:30PM		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		1:30-2:30	2:30-3:30	3:30-4:30
Mon				LUNCH BREAK			
Tue							
Wed							
Thur	Research methodology (SJ)		Research methodology (SJ)				
Fri		Research methodology (SJ)					
Sat	Research methodology (SJ)						

SJ: Mr. Shammy Jindal


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w.e.f. - Jan 2022

Time-Table for 2nd Semester (Section-A)

Days	9:30AM - 12:30PM			12:30PM 1:30PM	1:30PM - 4:30PM		
	Theory/Practical				Theory		
	A-Batch	B-Batch			1:30-2:30	2:30 - 3:30	3:30 - 4:30
Mon. (Practical)	Computer (Ankush)	P'ceutical O. Chemistry-I (Ankit)		LUNCH BREAK	Biochem. (PA)	Library/Sports	HAP - II (SKK)
Tue. (Practical)	P'ceutical O. Chemistry-I (Ankit)	Computer (DS)			Biochem. (PA)	Computer (ShS)	P'ceutical O. Chemistry-I (Ankit)
Wed. (Theory)	9:30 - 10:30	10:30 - 11:30	11:30 - 12:30		Biochem. (PA)	Pathophysio. (AR)	HAP - II (SKK)
	Env. sci. (DR)	P'ceutical O. Chemistry-I (AA)	Pathophysio. (AR)		HAP - II (AR)	Env. sci. (DR)	Computer (ShS)
Thur. (Theory)	Pathophysio. (AR)	Computer (ShS)	Biochem. (PA)		Env. sci. (DR)	Pathophysio. (AR)	P'ceutical O. Chemistry-I (AA)
Fri. (Practical)	A-Batch		B-Batch		Env. sci. (DR)	Pathophysio. (AR)	P'ceutical O. Chemistry-I (AA)
	HAP - II (Alka)		Biochem. (Ankush)		HAP - II (AR)	Library/Sports	P'ceutical O. Chemistry-I (Ankit)
Sat. (Practical)	Biochem. (Ankush)	HAP - II (AG)		HAP - II (AR)	Library/Sports	P'ceutical O. Chemistry-I (Ankit)	

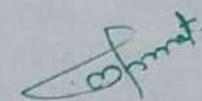
AA: Dr. Amardeep;
Mr. Ankit Sharma;
AR: Ms. Arti Rana;

PA: Dr. Pratima Ashawat;
AG: Ms. Anchal Guleria;
ShS: Ms. Shriya Sharma

SKK: Mr. Shiv Kumar Kushawaha;
Mr. Ankush Sharma;

DS: Mr. DevRaj Sharma;

Ms. Alka Gautam;
DR: Ms. Dimple Rana;
AS: Ms. Astha Sharma;



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w.e.f. - Jan 2022

Time-Table for 2nd Semester (Section-B)

Days	9:30AM - 12:30PM			12:30PM 1:30PM	1:30PM - 4:30PM		
	Theory/Practical			LUNCH BREAK	Theory		
	A-Batch		B-Batch		1:30- 2:30	2:30 - 3:30	3:30 - 4:30
Mon. (Practical)	P'ceutical O. Chemistry-I (PK)		HAP - II (SK)	LUNCH BREAK	HAP-II (AS)	Library/Sports	Computer (ShS)
Tue. (Practical)	HAP - II (SK)		Biochem. (RK)		HAP-II (AS)	P'ceutical O. Chemistry-I (AS)	Biochem. (PA)
Wed. (Practical)	Computer (DS)		P'ceutical O. Chemistry-I (AS)		Pathophysio. (SK)	Env. sci. (AG)	HAP-II (NG)
Thur. (Practical)	Biochem. (KJ)		Computer (DS)		Biochem. (PA)	Pathophysio. (SK)	Env. sci. (AG)
Fri. (Theory)	9:30 - 10:30	10:30 - 11:30	11:30 - 12:30		Biochem. (PA)	P'ceutical O. Chemistry-I (AS)	HAP-II (NG)
	P'ceutical O. Chemistry-I (AA)		Env. sci. (AG)		Pathophysio. (SK)		
Sat. (Theory)	Pathophysio. (SK)	Computer (ShS)	P'ceutical O. Chemistry-I (AS)		Biochem. (PA)	Library/Sports	Computer (ShS)

AA: Dr. Amardeep;

AS: Dr. Anjana Sharma;

PA: Dr. Pratima Ashawat;

NG: Mr. Nishant Gautam;

DS: Mr. DevRaj Sharma;

RK: Mr. Rohit Kumar;

PK: Ms. Pooja Kaushal;

SK: Ms. Shavinder Kumari;

AS: Ms. Astha Sharma;

AG: Ms. Anchal Guleria;

ShS: Ms. Shriya Sharma

Pratima

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w.e.f. - Jan 2022

Time-Table for 4th Semester (Section-A)

Days	9:30AM – 12:30 P M			12:30PM - 1:30PM	1:30PM – 4:30PM		
	Theory			LUNCH BREAK	Theory/Practical		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		A-Batch	B-Batch	
Mon.	Med Chem (AD)	Sports	P'cognosy (RR)		P'cognosy (RR)	Med Chem (AD)	
Tue.	P'cognosy (RR)	Library	Physical Pharm (AK)		Med Chem (AD)	P'cognosy (RR)	
Wed.	Med Chem (AD)	P'Col (SK)	P'cognosy (RR)		1:30-2:30	2:30 – 3:30	3:30 – 4:30
Thur.	Org. Chem (AS)	P'cognosy (RR)	P'Col (SK)		Physical Pharm (AK)	Med Chem (AD)	P'Col (SK)
Fri.	P'Col (SK)	Org. Chem (AS)	Med Chem (AD)		Org. Chem (AS)	Library	Physical Pharm (AK)
Sat.	Org. Chem (AS)	Weekly test	Physical Pharm (AK)		A-Batch		B-Batch
					P'Col (Anisha)		Physical Pharm (AK)
					Physical Pharm (AK)		P'Col (AG)

RR: Ms. Rinu Rana; DS: Mr. DevRaj Sharma; AG: Ms. Alka Gautam; AD: Ms. Arti Devi; SK: Ms. Shavinder Kumari; AK: Mr. Ajay Kumar;
 Ms. Anisha Rana; AS: Ms. Astha Sharma

[Signature]
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 DISTT. KANGRA (H.P.)

w.e.f. - Jan 2022

Time-Table for 4th Semester (Section-B)

Days	9:30AM – 12:30 P M			12:30PM - 1:30PM	1:30PM – 4:30PM		
	Theory			LUNCH BREAK	Theory/Practical		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		A-Batch	B-Batch	
Mon.	Org. Chem (UP)	Physical Pharmacy (DR)	P'Col (AR)		P'Col (AR)	Physical Pharmacy (DR)	
Tue.	P'Col (AR)	Med Chem (KJ)	P'cognosy (RR)		Physical Pharmacy (DR)	P'Col (AR)	
Wed.	P'cognosy (RR)	Library	Med Chem (KJ)		P'cognosy (RR)	Med Chem (AS)	
Thur.	Org. Chem (RK)	Weekly test	P'Col (AR)		Med Chem (AD)	P'cognosy (RR)	
Fri.	Med Chem (KJ)	Library	Physical Pharmacy (DR)		1:30-2:30	2:30 – 3:30	3:30 – 4:30
Sat.	Med Chem (KJ)	Sports	Physical Pharmacy (DR)		Org. Chem (RK)	P'cognosy (RR)	Org. Chem (UP)
					P'cognosy (RR)	Physical Pharmacy (DR)	P'Col (AR)

KJ: Ms. Kamyia Jindal; RR: Ms. Rinu Rana; AD: Ms. Arti Devi; UP: Ms. Upasana Thakur; RK: Mr. Rohit Kumar; DR: Ms. Dimple Rana;
 AS: Ms. Astha Sharma; AR: Ms. Arti Rana

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w.e.f. - Jan 2022

Time-Table for 6th Semester (Section-A)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1.30PM – 4.30PM		
	Practical/Theory				Practical/Theory		
Mon.	A-Batch		B-Batch	LUNCH BREAK	A-Batch		B-Batch
	Med Chem (RK)		Herbal Drug Technology (AG)		Weekly test		P'cology (Anisha)
Tue.	Herbal Drug Technology (AG)		Weekly test		P'cology (Anisha)		Med Chem (RK)
Wed.	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		1:30-2:30	2:30 – 3:30	3:30 – 4:30
	Med Chem (KJ)	Herbal Drug Technology (CPS)	Quality Assurance (Ankit)		P'cology (NG)	Med Chem (KJ)	Biotech (Ankush)
Thur.	Quality Assurance (AD)	Biotech (Ankush)	Quality Assurance (Ankit)		P'cology (NG)	Biotech (Ankush)	Herbal Drug Technology (CPS)
Fri.	Biopharm (DS)	P'cology (NG)	Med Chem (KJ)		P'cology (NG)	Biopharm (DS)	Med Chem (KJ)
Sat.	Biopharm (DS)	Herbal Drug Technology (CPS)	Quality Assurance (AD)		Biopharm (DS)	Herbal Drug Technology (CPS)	Biotech (Ankush)

CPS: Prof. CPS Verma;
Mr. Ankit Sharma;
AD: Ms. Arti Devi;

NG: Mr. Nishant Gautam;
Mr. Ankush Sharma;
SS: Dr. Shubham Sharma;

KJ: Ms. Kanya Jindal;
AG: Ms. Alka Gautam

DS: Mr. DevRaj Sharma;

RK: Mr. Rohit Kumar;

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w.e.f. - Jan 2022

Time-Table for 6th Semester (Section-B)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1.30PM – 4.30PM		
	Theory/Practical				Theory/ Practical		
Mon.	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30	LUNCH BREAK	1:30-2:30	2:30 – 3:30	3:30 – 4:30
	Biopharm (AC)	Herbal Drug Technology (CPS)	Med Chem (UP)		P'cology (SKK)	Herbal Drug Technology (CPS)	Biotech (AC)
Tue.	Biopharm (AC)	Med Chem (UP)	P'cology (SKK)		Quality Assurance (PK)	Herbal Drug Technology (CPS)	Biopharm (AC)
Wed.	Quality Assurance (PK)	Med Chem (RK)	Biopharm (AC)		A-Batch		B-Batch
					P'cology (SS)		Weekly test
Thur.	P'cology (SKK)	Herbal Drug Technology (CPS)	Biotech (AC)		Weekly test		P'cology (SS)
Fri.	A-Batch		B-Batch		1:30-2:30	2:30 – 3:30	3:30 – 4:30
	Herbal Drug Technology (PC)		Med Chem (UP)		Biotech(AC)	Quality Assurance (PK)	P'cology (SKK)
Sat.	Med Chem (UP)	Herbal Drug Technology (PC)			Quality Assurance (PK)	Med Chem (RK)	Biotech (AC)

CPS: Prof. CPS Verma; SKK: Mr. Shiv Kumar Kushwaha; AC: Ms. Archana Choudhary; UP: Ms. Upasana Thakur; RK: Mr. Rohit Kumar; PK: Ms. Pooja Kaushal; PC: Ms. Pratibha Chaudhary

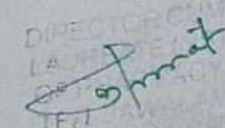

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w.e.f. - Jan 2022

Time-Table for 8th Semester (Section-A)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
	Theory			LUNCH BREAK	Practical		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		A-Batch	B-Batch	
Mon.	Pharmacovigilance (PC)	Biostat. (SJ)	Social Pharm. (SS)		PROJECT WORK		
Tue.	Biostat. (SJ)	Library	Pharmacovigilance (PC)				
Wed.	Social Pharm. (SS)	Pharmacovigilance (PC)	Regulatory Affairs (SJ)				
Thur.	PROJECT WORK				1:30-2:30	2:30 – 3:30	3:30 – 4:30
Fri.	Social Pharm. (SS)	Biostat (MK)	Regulatory Affairs (PK)		Pharmacovigilance (PC)	Regulatory Affairs (SJ)	Social Pharm. (SS)
Sat.	Biostat (MK)	Regulatory Affairs (PK)	Weekly test		PROJECT WORK		

SJ: Mr. Shammy Jindal; PK: Mr. Pravin Kumar; SS: Dr. Shubham Sharma; MK: Mr. Manish Kumar; PC: Ms. Pratibha Chaudhary


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w.e.f. - Jan 2022

Time-Table for 8th Semester (Section-B)

Days	9:30AM – 12:30 P M			12:30PM - 1:30PM	1:30PM – 4:30PM			
	Theory			LUNCH BREAK	Practical			
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		A-Batch	B-Batch		
Mon.	Social Pharm. (AG)	Biostat (MK)	Pharmacovigilance (Alka)		PROJECT WORK			
Tue.	Pharmacovigilance (Alka)	Biostat (MK)	Social Pharm. (AG)					
Wed.	PROJECT WORK				1:30-2:30	2:30 – 3:30	3:30 – 4:30	
					Regulatory affairs (TS)	Biostat. (PK)	Social Pharm. (AG)	
Thur.	Pharmacovigilance (SS)	Biostat. (PK)	Weekly test		PROJECT WORK			
Fri.	Regulatory affairs (TS)	Library	Social Pharm. (AG)					
Sat.	Regulatory affairs (TS)	Pharmacovigilance (SS)	Regulatory affairs (TS)					

SJ: Mr. Shammy Jindal; PK: Mr. Pravin Kumar; TS: Mr. Tarun Sharma; AG: Ms. Anchal Guleria; Ms. Alka Gautam;
 SS: Dr. Shubham Sharma; MK: Mr. Manish Kumar

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w.e.f.- Jan 2022

Time-Table

M.Pharm-II Sem (Pharmaceutics)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		1:30-2:30	2:30-3:30	3:30-4:30
Mon	Computer aided DDS (TS)	Biopharmaceutics & P'kinetics (VP)	Journal club	LUNCH BREA K	Molecular P'ceutics (SJ)	Computer aided DDS (PK)	Cosmetics & cosmeceuticals (TS)
Tue.	Cosmetics & cosmeceuticals (TS)				Cosmetics & cosmeceuticals (TS)		
Wed	Molecular P'ceutics (SJ)	Biopharmaceutics & P'kinetics (VP)	Cosmetics & cosmeceuticals (MSA)		Literature review	Molecular P'ceutics (SJ)	Biopharmaceutic s & P'kinetics (VP)
Thur	Biopharmaceutics & P'kinetics (VP)/ Molecular P'ceutics (SJ)				Biopharmaceutics & P'kinetics (VP)/ Molecular P'ceutics (SJ)		
Fri.	Computer aided DDS (PK)	Cosmetics & cosmeceuticals (MSA)	Cosmetics & cosmeceuticals (TS)		Molecular P'ceutics (SJ)	Biopharmaceutic s & P'kinetics (VP)	Computer aided DDS (TS)
Sat.	Computer aided DDS(PK)				Computer aided DDS(PK)		

MSA: Dr. M S Ashawat; VP: Dr. Vinay Pandit; PK: Pravin Kumar; SJ: Mr. Shammy Jindal; TS: Mr. Tarun Sharma

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w.e.f.- Jan 2022

Time-Table

M.Pharm-II Sem (PA & QA)

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		1:30-2:30	2:30-3:30	3:30-4:30
Mon.	Adv. Inst. Analysis (AA)	Journal club	Pharm. validation (AD)	LUNCH BREAK	Modern Bioanalytical Techniques (UP)	Adv. Inst. Analysis (RK)	Pharm. validation (PK)
Tue.	PA & QA Practicals (PK)				PA & QA Practicals (PK)		
Wed.	PA & QA Practicals (UP)				PA & QA Practicals (Ankit)		
Thur	Modern Bioanalytical Techniques (AA)	Pharm. validation (PK)	Pharm Mfg. Technique(AS)		Modern Bioanalytical Techniques (UP)	Pharm Mfg. Technique(KJ)	Pharm Mfg. Technique(AS)
Fri.	PA & QA Practicals (AA)				PA & QA Practicals (Ankit)		
Sat.	Adv. Inst. Analysis (RK)	Literature review	Modern Bioanalytical Techniques (AA)		Pharm Mfg. Technique(KJ)	Adv. Inst. Analysis (AA)	Pharm. validation (AD)

AA: Dr. Amardeep; KJ: Ms. Kamy Jindal; UP: Ms. Upasana Thakur; AD: Ms. Arti Devi; RK: Mr. Rohit Kumar;

Mr. Ankit Sharma; PK: Ms. Pooja Kaushal; AS: Ms. Astha Sharma



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w.e.f.- Jan 2022

Time-Table

M.Pharm-II Sem (Pharmacology)

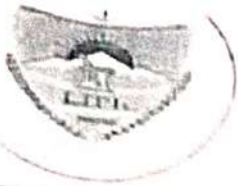
Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1:30PM – 4:30PM		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		1:30-2:30	2:30-3:30	3:30-4:30
Mon	Pharmacology practicals (NG)		Drug discovery (AS)	LUNCH BREAK	Pharmacology practicals (NG)		
Tue	Clinical & P' vigilance (SS)	Literature review	PTSM II (AR)		Clinical & P' vigilance (NG)	Drug discovery (AS)	Advanced Pharmacology (SK)
Wed	Pharmacology practicals (NG/Anisha)				Pharmacology practicals (NG/Anisha)	Drug discovery (AS)	
Thur	Clinical & P' vigilance (NG)	Advanced Pharmacology (SKK)	Drug discovery (AS)		Journal club		PTSM II (AR)
Fri	Pharmacology practicals (SKK)				Pharmacology practicals (SKK)	PTSM II (AS)	
Sat	Advanced Pharmacology (SKK)	Literature review	Advanced Pharmacology (SK)		Clinical & P' vigilance (SS)	Literature review	PTSM II (AS)

AS: Dr. Anjana Sharma; SKK: Mr. Shiv Kumar Kushwaha; NG: Mr. Nishant Gautam; Ms. Anisha Rana;

SS: Dr. Shubham Sharma; SK: Ms. Shavinder Kumari; AR: Ms. Arti Rana

(Signature)

Principal



Laureate Institute of Pharmacy

Ph. : 92184-26040, 92184-0307

(Approved by PCI & AICTE, New Delhi and H.P. Govt.)
Affiliated to H.P. University, Shimla
Kathog, Tehsil Dehra, Distt. Kangra (H.P.)-177 101

Notice

Date: 02/07/2021

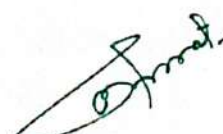
The B. Pharma. 2nd, 4th sem. and M. Pharm. 2nd sem. students are informed that offline Second Sessional examination will be held from 05th July 2021 to 12th July 2021. Therefore, the students are advised to work hard and secure minimum 50% marks in the Sessional examination. Sessional examinations are compulsory for every student. As per the Covid-19 Guidelines the 2nd Sessional examination date sheet revised to maintain the proper social distancing.


Date sheet for Second Sessional Examination (B. Pharm.)

Dates	Time:- 10:00 A.M. to 11:30 A.M.		Time:- 02:00 P.M. to 03:30 P.M.	
	2 nd Sem. (Morning)		4 th Sem. (Evening)	
05/07/2021	Human Anatomy & Physiology -II		P. Organic Chemistry -III	
06/07/2021	Pharmaceutical organic Chemistry-I		Medicinal Chemistry -I	
07/07/2021	Biochemistry		Physical Pharmaceutics -II	
08/07/2021	Pathophysiology		Pharmacology-I	
09/07/2021	Computer Application		Pharmacognosy and Phytochemistry -I	
10/07/2021	Environmental Science		*****	

Date sheet for Second Sessional Examination (M. Pharm.)

Dates	Time:- 10:00 A.M. to 12:00 P.M. (Morning)	
	2 nd Sem. Pharmaceutics	2 nd Sem. PA & QA
07/2021	Molecular pharmaceutics	Advanced Instrumental Analysis
07/2021	Advanced Biopharmaceutics	Modern Bio-Analytical Techniques
07/2021	CADDS	Pharmaceutical Validation
07/2021	Cosmetics & Cosmeceuticals	Pharmaceutical Manufacturing Technology


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Date: 14/07/2021

Notice

The B. Pharma. 2nd, 4th sem. and M. Pharm. 2nd sem. students are informed that offline third Sessional examination will be held from 24th July 2021 to 28th July 2021. Therefore, the students are advised to work hard and secure minimum 50% marks in the Sessional examination.

Date sheet for Third Sessional Examination (B. Pharm.)

Dates	Time:- 10:00 A.M. to 11:30 A.M.	Time:- 02:00 P.M. to 03:30 P.M.
	2 nd Sem. (Morning)	2 nd Sem. (Evening)
24/07/2021	Human Anatomy & Physiology -II	Pharmaceutical organic Chemistry-I
25/07/2021	Biochemistry	Pathophysiology
27/07/2021	Computer Application	Environmental Science

Dates	Time:- 10:00 A.M. to 11:30 A.M.	Time:- 02:00 P.M. to 03:30 P.M.
	4 th Sem. (Morning)	4 th Sem. (Evening)
24/07/2021	P. Organic Chemistry -III	Medicinal Chemistry -I
26/07/2021	Physical Pharmaceutics -II	Pharmacology-I
27/07/2021	Pharmacognosy and Phytochemistry -I	

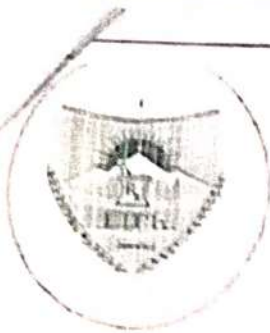
Date sheet for Third Sessional Examination (M. Pharm.)

Dates	Time:- 10:00 P.M. to 12:00 P.M.	
	2 nd Sem. Pharmaceutics	2 nd Sem. PA & QA
24/07/2021	Molecular pharmaceutics	Advanced Instrumental Analysis
26/07/2021	Advanced Biopharmaceutics	Modern Bio-Analytical Techniques
27/07/2021	CADDS	Pharmaceutical Validation
28/07/2021	Cosmetics & Cosmeceuticals	Pharmaceutical Manufacturing Technology

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Date: 21/10/2021

Notice

The B. Pharmacy students are informed that First Sessional examination will be held from 08 Nov. to 13 Nov. 2021. Therefore, the students are advised to work hard and secure minimum 50% marks in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for First Sessional Examination Nov.2021

Dates	Days	Time:- 10:00A.M. to 11:30A.M.	Time:- 10:00A.M. to 11:30A.M.
		1 st Sem. (First Half)	3 rd Sem. (First Half)
08/11/2021	Mon.	Human Anatomy and Physiology I	Pharmaceutical Organic Chemistry II
09/11/2021	Tue.	Pharmaceutical Analysis I	Physical Pharmaceutics I
10/11/2021	Wed.	Pharmaceutics I	Pharmaceutical Microbiology
11/11/2021	Thru	Pharmaceutical Inorganic Chemistry	Pharmaceutical Engineering
12/11/2021	Fri	Communication skills	-----
13/11/2021	Sat.	Remedial Biology/ Remedial Mathematics	-----

Dates	Days	Time:- 02:00 P.M. to 3:30 P.M.	Time:- 02:00 P.M. to 3:30 P.M.
		5 th Sem. (Second Half)	7 th Sem. (Second Half)
08/11/2021	Mon.	Medicinal Chemistry II	Instrumental Methods of Analysis
09/11/2021	Tue.	Industrial Pharmacy-I	Industrial Pharmacy-II
10/11/2021	Wed.	Pharmacology-II	Pharmacy Practice
11/11/2021	Thru	Pharmacognosy and Phytochemistry II	Novel Drug Delivery System
12/11/2021	Fri	Pharmaceutical Jurisprudence	Communication skills (Lateral Entry)

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Date: 09/12/2021


Notice

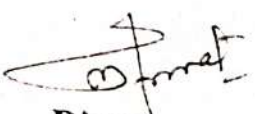
The B. Pharmacy students are informed that **Second Sessional** examination will be held from **16 Dec. to 23 Dec. 2021**. Therefore, the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Second Sessional Examination Dec. 2021

Dates	Days	Time:- 10:00A.M. to 11:30A.M.	Time:- 10:00A.M. to 11:30A.M.
		1 st Sem. (First Half)	3 rd Sem. (First Half)
16/12/2021	Thru	Human Anatomy and Physiology I	Pharmaceutical Organic Chemistry II
17/12/2021	Fri	Pharmaceutical Analysis I	Physical Pharmaceutics I
20/12/2021	Mon.	Pharmaceutics I	Pharmaceutical Microbiology
21/12/2021	Tue.	Pharmaceutical Inorganic Chemistry	Pharmaceutical Engineering
22/12/2021	Wed.	Communication skills	-----
23/12/2021	Thru	Remedial Biology/ Remedial Mathematics	-----

Dates	Days	Time:- 02:00 P.M. to 3:30 P.M.	Time:- 02:00 P.M. to 3:30 P.M.
		5 th Sem. (Second Half)	7 th Sem. (Second Half)
16/12/2021	Thru	Medicinal Chemistry II	Instrumental Methods of Analysis
17/12/2021	Fri	Industrial Pharmacy-I	Industrial Pharmacy-II
20/12/2021	Mon.	Pharmacology-II	Pharmacy Practice
21/12/2021	Tue.	Pharmacognosy and Phytochemistry -II	Novel Drug Delivery System
22/12/2021	Wed.	Pharmaceutical Jurisprudence	Communication skills (Lateral Entry)


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Date: 29/12/2021

Notice

The M. Pharm. students are informed that First Sessional examination will be held from 03rd Jan. to 10th Jan. 2022. Therefore, the students are advised to work hard and secure minimum 50% marks in the Sessional examination. Sessional examinations are compulsory for every student.


Date sheet for First Sessional Examination (M. Pharm. 1st Sem.)

Dates	Time:- 10:00 A.M. to 12:00 P.M.		
	1 st Sem. Pharmaceutics	1 st Sem. PA & QA	1 st sem. Pharmacology
03/01/2022 Monday	Modern Pharmaceutical Analytical Techniques	Modern Pharmaceutical Analytical Techniques	Modern Pharmaceutical Analytical Techniques
05/01/2022 Wednesday	Drug Delivery System	Advanced Pharmaceutical Analysis And Quality Management	Advanced Pharmacology-I
07/01/2022 Friday	Regulatory affairs	Quality Control And Quality Assurance	Pharmacological and toxicological screening method-I
10/01/2022 Monday	Modern Pharmaceutics	Herbal And Cosmetic Analysis	Cellular and molecular Pharmacology

Date sheet for First Sessional Examination (M. Pharm. 3rd Sem.)

Dates	Time:- 10:00 A.M. to 12:00 P.M.	
	3 rd Sem. Pharmaceutics	3 rd Sem. PA & QA
03/01/2022 Monday	Research Methodology	Research Methodology

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Notice

Date: 04/01/2022

The students of B. Pharma. 5th and 7th semester are informed that **Third Sessional** examination will be held from 10th Jan. to 12th Jan. 2022. Therefore, the students are advised to work hard and secure minimum 50% marks in the Sessional examination. Sessional examinations are compulsory for every student.


Date sheet for Third Sessional Examination Jan. 2022


Morning Session

Dates	Days	Time:- 10:00A.M. to 11:30A.M.	Time:- 10:00A.M. to 11:30A.M.
		5 th Sem. (First Half)	7 th Sem. (First Half)
10/01/2022	Monday	Medicinal Chemistry II	Instrumental Methods of Analysis
11/01/2022	Tuesday	Pharmacology-II	Pharmacy Practice
12/01/2022	Wednesday	Pharmaceutical Jurisprudence	Communication skills (Lateral Entry)

Evening Session

Dates	Days	Time:- 02:00 P.M. to 3:30 P.M.	Time:- 02:00 P.M. to 3:30 P.M.
		5 th Sem. (Second Half)	7 th Sem. (Second Half)
10/01/2022	Monday	Industrial Pharmacy-I	Industrial Pharmacy-II
11/01/2022	Tuesday	Pharmacognosy and Photochemistry -II	Novel Drug Delivery System


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Date: 18/01/2022

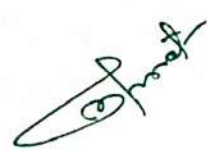
Notice

The B. Pharmacy students of 1st and 3rd sem. are informed that **Third Sessional** online/offline examination will be held from 2nd Feb. to 08th Feb. 2022. Therefore, the students are advised to work hard and secure **minimum 50%** marks in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Third Sessional Examination Feb. 2022

Dates	Days	Time:- 10:00A.M. to 11:30A.M.	Time:- 10:00A.M. to 11:30A.M.
		1 st Sem.	3 rd Sem.
02/02/2022	Wed.	Communication skills	*****
03/02/2022	Thru	Remedial Biology/ Remedial Mathematics	*****
04/02/2022	Fri	Human Anatomy and Physiology I	Pharmaceutical Organic Chemistry II
05/02/2022	Sat.	Pharmaceutical Analysis I	Physical Pharmaceutics I
07/02/2022	Mon.	Pharmaceutics I	Pharmaceutical Microbiology
08/02/2022	Tue.	Pharmaceutical Inorganic Chemistry	Pharmaceutical Engineering


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Date: 18/01/2022

Notice

The M. Pharm. 3rd Sem. students are informed that online Second and Third Sessional examination will be held from 23rd Jan. 2022. Therefore, the students are advised to work hard and secure minimum 50% marks in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Second Sessional Examination (M. Pharm. 3rd Sem.)

Dates	Time:- 10:00 A.M. to 12:00 P.M.	
	3 rd Sem. Pharmaceutics	3 rd Sem. PA & QA
24/01/2022 Monday	Research Methodology (MRM301T)	Research Methodology(MRM301T)


Date sheet for Third Sessional Examination (M. Pharm. 3rd Sem.)

Dates	Time:- 10:00 A.M. to 12:00 P.M.	
	3 rd Sem. Pharmaceutics	3 rd Sem. PA & QA
28/01/2022 Friday	Research Methodology(MRM301T)	Research Methodology(MRM301T)


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Date: 18/01/2022

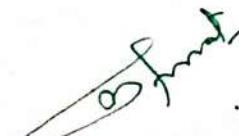
The M. Pharm. 1st sem. students are informed that Second Sessional online/offline examination will be held from 01st Feb. to 04th Feb. 2022. Therefore, the students are advised to work hard and secure minimum 50% marks in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Second Sessional Examination (M. Pharm. 1st Sem.)

Dates	Time:-10:00A.M. to 12:00 P.M.		
	1 st Sem. Pharmaceutics	1 st Sem. PA & QA	1 st sem. Pharmacology
01/02/2022 Tuesday	Modern Pharmaceutical Analytical Techniques	Modern Pharmaceutical Analytical Techniques	Modern Pharmaceutical Analytical Techniques
02/02/2022 Wednesday	Drug Delivery System	Advanced Pharmaceutical Analysis And Quality Management	Advanced Pharmacology-I
03/02/2022 Thursday	Modern Pharmaceutics	Quality Control And Quality Assurance	Pharmacological and toxicological screening method-I
04/02/2022 Friday	Regulatory affairs	Herbal And Cosmetic Analysis	Cellular and molecular Pharmacology


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Date: 02/05/2022

Notice

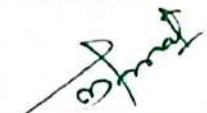
The B. Pharmacy students are informed that First Sessional examination will be held from 09 May to 14 May 2022. Therefore, the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.


Date sheet for First Sessional Examination May 2022

Dates	Days	Time:- 10:00A.M. to 11:30A.M.	Time:- 10:00A.M. to 11:30A.M.
		2 nd Sem. (First Half)	4 th Sem. (First Half)
09/05/2022	Mon.	Human Anatomy and Physiology II	Pharmaceutical Organic Chemistry III
10/05/2022	Tue.	Pharmaceutical Organic Chemistry I	-----
11/05/2022	Wed.	Biochemistry	Medicinal Chemistry I
12/05/2022	Thru	Pathophysiology	Pharmacognosy and Phytochemistry I
13/05/2022	Fri	Computer Applications in Pharmacy	Physical Pharmaceutics II
14/05/2022	Sat.	Environmental sciences	Pharmacology I

Dates	Days	Time:- 02:00 P.M. to 3:30 P.M.	Time:- 02:00 P.M. to 3:30 P.M.
		6 th Sem. (Second Half)	8 th Sem. (Second Half)
09/05/2022	Mon.	Medicinal Chemistry III	Biostatistics and Research Methodology
10/05/2022	Tue.	Pharmacology III	-----
11/05/2022	Wed.	Herbal Drug Technology	Social and Preventive Pharmacy
12/05/2022	Thru	Biopharmaceutics and Pharmacokinetics	-----
13/05/2022	Fri	Pharmaceutical Biotechnology	Pharmaceutical Regulatory Science
14/05/2022	Sat.	Quality Assurance	Pharmacovigilance




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Date: 02/05/2022

Notice

The M. Pharmacy students are informed that First Sessional examination will be held from 09 May to 17 May 2022. Therefore, the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for First Sessional Examination May 2022


Dates	Days	Time:- 10:00A.M. to 12:00A.M.	Time:- 10:00A.M. to 11:30A.M.
		2 nd Sem. (Pharmaceutics)	2 nd Sem. (Pharmacology)
09/05/2022	Mon.	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	Advanced Pharmacology -II
11/05/2022	Wed.	Computer Aided Drug Delivery System	Pharmacological and toxicological Screening methods-II
13/05/2022	Fri	Cosmetic and Cosmeceuticals	Principles of drug discovery
17/05/2022	Tue.	Advanced Biopharmaceutics & Pharmacokinetics	Clinical research and Pharmacovigilance

Dates	Days	Time:- 02:00 P.M. to 3:30 P.M.
		2 nd Sem. (PAQA)
09/05/2022	Mon.	Advanced Instrumental Analysis
11/05/2022	Wed.	Modern Bio-Analytical Techniques
13/05/2022	Fri	Pharmaceutical Validation
17/05/2022	Tue.	Pharmaceutical Manufacturing Technology




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Date: 11/06/2022

Notice

The B. Pharmacy students are informed that ~~First~~^{Second} Sessional examination will be held from 30 June to 06 July 2022. Therefore, the students are advised to work hard and secure **minimum 50%** marks in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Second Sessional Examination June 2022

Dates	Days	Time:- 10:00A.M. to 11:30A.M.	Time:- 10:00A.M. to 11:30A.M.
		2 nd Sem. (First Half)	4 th Sem. (First Half)
30/06/2022	Thru	Human Anatomy and Physiology II	Pharmaceutical Organic Chemistry III
01/07/2022	Fri	Pharmaceutical Organic Chemistry I	Medicinal Chemistry I
02/07/2022	Sat.	Biochemistry	Physical Pharmaceutics II
04/07/2022	Mon.	Pathophysiology	Pharmacology I
05/07/2022	Tue.	Computer Applications in Pharmacy	Pharmacognosy and Phytochemistry I
06/07/2022	Wed.	Environmental sciences	

Dates	Days	Time:- 02:00 P.M. to 3:30 P.M.	Time:- 02:00 P.M. to 3:30 P.M.
		6 th Sem. (Second Half)	8 th Sem. (Second Half)
30/06/2022	Thru	Medicinal Chemistry III	-----
01/07/2022	Fri	Pharmacology III	Biostatistics and Research Methodology
02/07/2022	Sat.	Herbal Drug Technology	Social and Preventive Pharmacy
04/07/2022	Mon.	Biopharmaceutics and Pharmacokinetics	-----
05/07/2022	Tue.	Pharmaceutical Biotechnology	Pharmaceutical Regulatory Science
06/07/2022	Wed.	Quality Assurance	Pharmacovigilance



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Date: 11/06/2022


Notice


The M. Pharmacy students are informed that ~~First~~^{Second} Sessional examination will be held from 30 June to 06 July 2022. Therefore, the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Second Sessional Examination June 2022

Dates	Days	Time:- 10:00A.M. to 12:00A.M.	Time:- 10:00A.M. to 11:30A.M.
		2 nd Sem. (Pharmaceutics)	2 nd Sem. (Pharmacology)
30/06/2022	Thus.	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	Advanced Pharmacology -II
02/07/2022	Sat.	Computer Aided Drug Delivery System	Pharmacological and toxicological Screening methods-II
04/07/2022	Mon.	Cosmetic and Cosmeceuticals	Principles of drug discovery
06/07/2022	Wed.	Advanced Biopharmaceutics & Pharmacokinetics	Clinical research and Pharmacovigilance

Dates	Days	Time:- 10:00A.M. to 11:30A.M.
		2 nd Sem. (PAQA)
30/06/2022	Thus.	Advanced Instrumental Analysis
02/07/2022	Sat.	Modern Bio-Analytical Techniques
04/07/2022	Mon.	Pharmaceutical Validation
06/07/2022	Wed.	Pharmaceutical Manufacturing Technology




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Date: 11/06/2022

Notice

The M. Pharmacy students are informed that First Sessional examination will be held from 30 June to 06 July 2022. Therefore, the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.


Date sheet for Second Sessional Examination June 2022

Dates	Days	Time:- 10:00A.M. to 12:00A.M.	Time:- 10:00A.M. to 11:30A.M.
		2 nd Sem. (Pharmaceutics)	2 nd Sem. (Pharmacology)
30/06/2022	Thus.	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	Advanced Pharmacology -II
02/07/2022	Sat.	Computer Aided Drug Delivery System	Pharmacological and toxicological Screening methods-II
04/07/2022	Mon.	Cosmetic and Cosmeceuticals	Principles of drug discovery
06/07/2022	Wed.	Advanced Biopharmaceutics & Pharmacokinetics	Clinical research and Pharmacovigilance

Dates	Days	Time:- 10:00A.M. to 11:30A.M.
		2 nd Sem. (PAQA)
30/06/2022	Thus.	Advanced Instrumental Analysis
02/07/2022	Sat.	Modern Bio-Analytical Techniques
04/07/2022	Mon.	Pharmaceutical Validation
06/07/2022	Wed.	Pharmaceutical Manufacturing Technology


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Date: 11/06/2022


Notice

The M. Pharmacy students are informed that ~~the~~ ^{second} Sessional examination will be held from 30 June to 06 July 2022. Therefore, the students are advised to work hard and secure minimum 50% marks in the Sessional examination. Sessional examinations are compulsory for every student.


Date sheet for Second Sessional Examination June 2022

Dates	Days	Time:- 10:00 A.M. to 12:00 A.M.	
		2 nd Sem. (Pharmaceutics)	
30/06/2022	Thus.	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	Time:- 10:00 A.M. to 11:30 A.M. 2 nd Sem. (Pharmacology)
02/07/2022	Sat.	Computer Aided Drug Delivery System	Advanced Pharmacology -II
04/07/2022	Mon.	Cosmetic and Cosmeceuticals	Pharmacological and toxicological Screening methods-II
06/07/2022	Wed.	Advanced Biopharmaceutics & Pharmacokinetics	Principles of drug discovery Clinical research and Pharmacovigilance

Dates	Days	Time:- 10:00 A.M. to 11:30 A.M.	
		2 nd Sem. (PAQA)	
30/06/2022	Thus.	Advanced Instrumental Analysis	
02/07/2022	Sat.	Modern Bio-Analytical Techniques	
04/07/2022	Mon.	Pharmaceutical Validation	
06/07/2022	Wed.	Pharmaceutical Manufacturing Technology	


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Allied to H.P. University, Shimla

Cat. No. Tehsil Dehra, Distt. Kangra (H.P.)-177 101

Date: 24/06/2022

Notice

The B Pharmacy students are informed that Second Sessional examination will be held from 30 June to 06 July 2022. Therefore the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Second Sessional Examination June 2022

Dates	Days	Time:- 10:00 A.M. to 11:30A.M.	Time:- 10:00A.M. to 11:30A.M.
		3 rd Sem (First Half)	4 th Sem. (First Half)
30/06/2022	Thru	Human Anatomy and Physiology II	Pharmaceutical Organic Chemistry III-
01/07/2022	Fri	Pharmaceutical Organic Chemistry I	Medicinal Chemistry I
02/07/2022	Sat.	Biochemistry	Physical Pharmaceutics II
04/07/2022	Mon.	Pathophysiology	Pharmacology I
05/07/2022	Tue.	Current Applications in Pharmacy	Pharmacognosy and Phytochemistry I
06/07/2022	Wed.	Environmental sciences	

Dates	Days	Time:- 02:00 P.M. to 3:30 P.M.	Time:- 02:00 P.M. to 3:30 P.M.
		6 th Sem. (Second Half)	8 th Sem. (Second Half)
30/06/2022	Thru	Medicinal Chemistry III	Biostatistics and Research Methodology
01/07/2022	Fri	Pharmacology III	Social and Preventive Pharmacy
02/07/2022	Sat.	Herbal Drug Technology	Pharmaceutical Regulatory Science
03/07/2022	Sun	-----	Pharmacovigilance
04/07/2022	Mon.	Biopharmaceutics and Pharmacokinetics	
05/07/2022	Tue.	Pharmaceutical Biotechnology	
06/07/2022	Wed.	Quality Assurance	



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Date: 24/06/2022

Notice

The B. Pharmacy students are informed that Second Sessional examination will be held from 30 June to 06 July 2022. Therefore, the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Second Sessional Examination June 2022

Dates	Days	Time:- 10:00 A.M. to 11:30 A.M.	Time:- 10:00 A.M. to 11:30 A.M.
		2 nd Sem. (First Half)	4 th Sem. (First Half)
30/06/2022	Thru	Human Anatomy and Physiology II	Pharmaceutical Organic Chemistry III
01/07/2022	Fri	Pharmaceutical Organic Chemistry I	Medicinal Chemistry I
02/07/2022	Sat.	Biochemistry	Physical Pharmaceutics II
04/07/2022	Mon.	Pathophysiology	Pharmacology I
05/07/2022	Tue.	Computer Applications in Pharmacy	Pharmacognosy and Phytochemistry I
06/07/2022	Wed.	Environmental sciences	

Dates	Days	Time:- 02:00 P.M. to 3:30 P.M.	Time:- 02:00 P.M. to 3:30 P.M.
		6 th Sem. (Second Half)	8 th Sem. (Second Half)
30/06/2022	Thru	Medicinal Chemistry III	Biostatistics and Research Methodology
01/07/2022	Fri	Pharmacology III	Social and Preventive Pharmacy
02/07/2022	Sat.	Herbal Drug Technology	Pharmaceutical Regulatory Science
03/07/2022	Sun	-----	Pharmacovigilance
04/07/2022	Mon.	Biopharmaceutics and Pharmacokinetics	
05/07/2022	Tue.	Pharmaceutical Biotechnology	
06/07/2022	Wed.	Quality Assurance	



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Date: 04/07/2022

Notice

The B Pharmacy students are informed that Third Sessional examination will be held from 05 July to 09 July 2022. Therefore, the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for third Sessional Examination June 2022

Dates	Days	Time:- 10:00A.M. to 11:30A.M.	Time:- 03:00P.M. to 04:30P.M.
		2 nd Sem. (First Half)	2 nd Sem. (Second Half)
07/07/2022	Thru	Human Anatomy and Physiology II	Pharmaceutical Organic Chemistry I
08/07/2022	Fri	Biochemistry	Pathophysiology
09/07/2022	Sat.	Computer Applications in Pharmacy	Environmental sciences
		4 th Sem. (First Half)	4 th Sem. (Second Half)
07/07/2022	Thru	Pharmaceutical Organic Chemistry III	Medicinal Chemistry I
08/07/2022	Fri	Physical Pharmaceutics II	Pharmacology I
09/07/2022	Sat.	Pharmacognosy and Phytochemistry I	
		6 th Sem. (First Half)	6 th Sem. (Second Half)
07/07/2022	Thru	Medicinal Chemistry III	Pharmacology III
08/07/2022	Fri	Herbal Drug Technology	Biopharmaceutics and Pharmacokinetics
09/07/2022	Sat.	Pharmaceutical Biotechnology	Q.A.

Dates	Days	Time:- 10:00A.M. to 11:30A.M.	Time:- 03:00P.M. to 04:30P.M.
		8 th Sem. (First Half)	8 th Sem. (Second Half)
05/07/2022	Tue.	Biostatistics and Research Methodology	Social and Preventive Pharmacy
06/07/2022	Wed.	Pharmaceutical Regulatory Science	Pharmacovigilance

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Date: 04/07/2022

Notice

The M. Pharmacy students are informed that third Sessional examination will be held from 07 July to 08 July 2022. Therefore, the students are advised to work hard and secure **minimum 50% marks** in the Sessional examination. Sessional examinations are compulsory for every student.

Date sheet for Third Sessional Examination July 2022

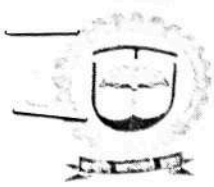
Dates	Days	Time:- 10:00A.M. to 12:00A.M.	Time:- 03:00P.M. to 05:00P.M.
		2 nd Sem. (Pharmaceutics)	2 nd Sem. (Pharmaceutics)
07/07/2022	Thru.	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	Computer Aided Drug Delivery System
08/07/2022	Fri	Advanced Biopharmaceutics & Pharmacokinetics	Cosmetic and Cosmeceuticals
		2 nd Sem. (Pharmacology)	2 nd Sem. (Pharmacology)
07/07/2022	Thru.	Advanced Pharmacology -II	Pharmacological and toxicological Screening methods-II
08/07/2022	Fri	Principles of drug discovery	Clinical research and Pharmacovigilance
		2 nd Sem. (PAQA)	2 nd Sem. (PAQA)
07/07/2022	Thru.	Advanced Instrumental Analysis	Modern Bio-Analytical Techniques
08/07/2022	Fri	Pharmaceutical Validation	Pharmaceutical Manufacturing Technology



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Phone: (01972) 221330

Website: www.himtu.ac.in, E-mail ID: arconduct@gmail.com

HPTU-47(Conduct) Date Sheet V-I/2022 -500

Dated: - Feb 08, 2022

Notification

Final Date Sheet of UG programs i.e. B.Tech, B.Arch, BCA, BBA, BHMCT, B.Sc. HM & CT, B. Pharmacy, B. Pharmacy (Ayur) for Regular/Re-appear students and PG programs i.e. M.Tech, M.Pharm, MBA, MBA (Tourism and Hospitality), M.Sc. Physics, M.Sc. Evs, MCA & 1st semester of YOGA theory examinations, February-2022.

Note :-

- All the concerned are advised to strictly follow the COVID-19 Pandemic SOP's issued by Govt. /UGC from time to time.

Controller of Examinations

Endst No.:

Copy to 501-511.

- All Deans, HPTU, Hamirpur for information please.
- Finance Officer, HPTU, and Hamirpur for information please.
- The Principals of all affiliated colleges for compliance and same be put on notice board of college please.
- AR (Academic) for information and necessary action.
- System Analyst to upload the same on HPTU website.
- PS to VC HPTU, Hamirpur for the information.
- PA to Registrar HPTU, Hamirpur for the information.
- Asst Coordinator, HPTU, Hamirpur for the information.
- Main Notice Board.
- Guard file.

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Deputy Registrar (Conduct)




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Conduct Branch

B.Pharma (PCI) Date Sheet of Theory Examination Feb-2022


Morning Session (09.00 AM To 12.00 N) - Evening Session (02.00 PM To 05.00 PM)

Date	Session	Sem.	Sub-Code	Subject-Title
28-02-22	Morning	I	BP-105 T	Communication Skills
04-03-22	Morning	I	BP-101 T	Human Anatomy & Physiology-I
07-03-22	Morning	I	BP-102 T	Pharmaceutical Analysis-I
09-03-22	Morning	I	BP-103 T	Pharmaceutics-I
11-03-22	Morning	I	BP-104 T	Pharmaceutical Inorganic Chemistry
15-03-22	Morning	I	BP-106 RBT or BP-106 RMT	Remedial Biology or Remedial Mathematics
25-02-22	Evening	II	BP-205 T	Computer Applications in Pharmacy *
07-03-22	Evening	II	BP-201T	Human Anatomy and Physiology- II
08-03-22	Evening	II	BP-202 T	Pharmaceutical Organic Chemistry -I
09-03-22	Evening	II	BP-203 T	Biochemistry
10-03-22	Evening	II	BP-204 T	Path physiology
11-03-22	Evening	II	BP-206 T	Environmental sciences **
03-03-22	Morning	III	BP-301 T	Pharmaceutical Organic Chemistry II
05-03-22	Morning	III	BP-302 T	Physical Pharmaceutics I
08-03-22	Morning	III	BP-303 T	Pharmaceutical Microbiology
10-03-22	Morning	III	BP-304 T	Pharmaceutical Engineering
14-03-22	Evening	IV	BP-401 T	Pharmaceutical Organic Chemistry III- Theory
15-03-22	Evening	IV	BP-402 T	Medicinal Chemistry I
16-03-22	Evening	IV	BP-403 T	Physical Pharmaceutics II - Theory
17-03-22	Evening	IV	BP-404 T	Pharmacology -I
19-03-22	Evening	IV	BP-405 T	Pharmacognosy and Phyto chemistry-I
19-02-22	Morning	V	BP-501 T	Medicinal Chemistry -II


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Date	Session	Sem.	Sub-Code	Subject-Title
22-02-22	Morning	V	BP-502 T	Industrial Pharmacy-I
24-02-22	Morning	V	BP-503 T	Pharmacology -II
26-02-22	Morning	V	BP-504 T	Pharmacognosy and Phytochemistry -II
02-03-22	Morning	V	BP-505 T	Pharmaceutical Jurisprudence
26-02-22	Evening	VI	BP-601 T	Medicinal Chemistry -III
28-02-22	Evening	VI	BP-602 T	Pharmacology-III
02-03-22	Evening	VI	BP-603 T	Herbal Drug Technology
03-03-22	Evening	VI	BP-604 T	Biopharmaceutics and Pharmacokinetics
04-03-22	Evening	VI	BP-605 T	Pharmaceutical Biotechnology
05-03-22	Evening	VI	BP-606T	Quality Assurance
18-02-22	Morning	VII	BP-704T	Novel Drug Delivery System
21-02-22	Morning	VII	BP-701T	Instrumental Methods of Analysis
23-02-22	Morning	VII	BP-702T	Industrial Pharmacy-II
25-02-22	Morning	VII	BP-703T	Pharmacy Practice
28-02-22	Morning	VII	BP-105T	Communication Skills (Lateral Entry)
18-02-22	Evening	VIII	BP -801T	Biostatistics and Research Methodology
19-02-22	Evening	VIII	BP- 802T	Social and Preventive Pharmacy
21-02-22	Evening	VIII	BP- 803ET or BP- 804ET	Pharma Marketing Management or Pharmaceutical Regulatory Science
22-02-22	Evening	VIII	BP- 805ET or BP-808ET	Pharmacovigilance or Cell and Molecular Biology
23-02-22	Evening	VIII	BP- 809ET or BP- 810ET	Cosmetic Science or Experimental Pharmacology
24-02-22	Evening	VIII	BP-811ET	Advanced Instrumentation Techniques
25-02-22	Evening	VIII	BP-205 T	Computer Applications in Pharmacy * (Lateral Entry)

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B. Pharmacy (CBCS) Date Sheet of Theory Examination Feb-2022

Morning Session (09.00 AM To 12.00 N) - Evening Session (02.00 PM To 05.00 PM)

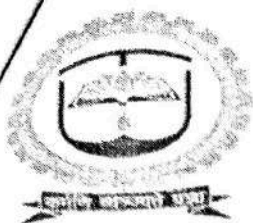
Date	Session	Sem.	Sub-code	Subject -Title
19-02-22	Morning	I	BP-102	Pharmaceutics-I (Introduction to Pharmaceutics & Dispensing Pharmacy)
21-02-22	Morning	I	HS-102	Environmental Science
22-02-22	Morning	I	BP-101	Pharmaceutical Chemistry-I (Inorganic Chemistry)
23-02-22	Morning	I	BP-103	Anatomy, Physiology and Health education -I
24-02-22	Morning	I	HS-103	English Communication Skills (Common- B.Pharm, Ayur, B.Arch)
25-02-22	Morning	II	HS-103	Disaster Management
26-02-22	Morning	II	BP-202	Physical Pharmacy-I
28-02-22	Morning	II	BP-203	Anatomy, Physiology and Pathophysiology-II
02-03-22	Morning	II	BP-204	Pharmacognosy-I
03-03-22	Morning	II	BP-205	Mathematics & Biostatistics
04-03-22	Morning	II	BP-201	Pharmaceutical Chemistry-II (Organic Chemistry)
05-03-22	Morning	III	BP-302	Pharmaceutics-II (Unit Operation-I)
07-03-22	Morning	III	BP-303	Pharmaceutics-III (Hospital & Community Pharmacy)
08-03-22	Morning	III	BP-304	Pathophysiology
09-03-22	Morning	III	BP-305	Pharmacognosy-II
10-03-22	Morning	III	BP-306	Pharmaceutical Analysis-I
11-03-22	Morning	III	BP-301	Pharmaceutical Chemistry-III (Heterocyclic & Organic Chemistry)
05-03-22	Evening	IV	BP-401	Human Values & Professional Ethics (Common with HS-409, BP-401 B.P Ayur & B.T)
08-03-22	Evening	IV	BP-403	Pharmaceutics-IV (Pharmaceutical Technology-I)
09-03-22	Evening	IV	BP-402	Physical Pharmacy-II
10-03-22	Evening	IV	BP-404	Pharmaceutical Analysis-II
11-03-22	Evening	IV	BP-405	Pharmaceutics-V (Unit Operation-II)
14-03-22	Morning	V	BP-501	Bio-chemistry

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Date	Session	Sem.	Sub-code	Subject -Title
15-03-22	Morning	V	BP-502	Medicinal Chemistry-I
16-03-22	Morning	V	BP-503	Pharmacology-I
17-03-22	Morning	V	BP-504	Pharmaceutical Biotechnology
19-03-22	Morning	V	BP-505	Pharmaceutical Jurisprudence
21-03-22	Morning	V	BP-506	Pharmacognosy-III
19-02-22	Evening	VI	BP-601	Medicinal Chemistry-II
21-02-22	Evening	VI	BP-603	Pharmacognosy-IV
22-02-22	Evening	VI	BP-604	Pharmaceutics-VI (Pharmaceutical Technology II)
23-02-22	Evening	VI	BP-605	Clinical Pharmacy
24-02-22	Evening	VI	BP-606	Pharmaceutical Microbiology
25-02-22	Evening	VI	BP-602	Chemistry of Natural Products
26-02-22	Evening	VII	BP-475-3 or BP-475-6	Clinical Trial & Research or Quality Control and Quality Assurance
28-02-22	Evening	VII	BP-701	Medicinal Chemistry-III
02-03-22	Evening	VII	BP-704	Pharmaceutics-VII (Biopharmaceutics and Pharmacokinetics)
03-03-22	Evening	VII	BP-705	Industrial Pharmacognosy
04-03-22	Evening	VII	BP-702	Pharmacology-II
07-03-22	Evening	VII	BP-703	Pharmaceutical Industrial Management
14-03-22	Evening	VIII	BP-801	Instrumental Methods of Analysis
15-03-22	Evening	VIII	BP-802	Pharmaceutics-VIII (Novel Drug Delivery Systems)
16-03-22	Evening	VIII	BP-803	Pharmacology-III

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Conduct Branch


B. Pharmacy (NS) Date Sheet of Theory Examination Feb-2022

Morning Session (09.00 AM To 12.00 N) - Evening Session (02.00 PM To 05.00 PM)

Date	Session	Sem.	Sub- Code	Subject -Title
18-02-22	Morning	I	BP-111	Pharmaceutical Inorganic Chemistry
19-02-22	Morning	I	BP-112	Pharmaceutical Organic Chemistry-I
21-02-22	Morning	I	BP-113	Anatomy, Physiology And Health Education-I
22-02-22	Morning	I	BP-114	Introductory Pharmaceutics
23-02-22	Morning	I	BP-115	Pharmacognosy-I
24-02-22	Morning	I	BP-117	Remedial Biology
25-02-22	Morning	II	BP-121	Pharmaceutical Organic Chemistry-II
26-02-22	Morning	II	BP-122	Anatomy Physiology & Health Education-II
28-02-22	Morning	II	BP-123	Unit Operations-I
02-03-22	Morning	II	BP-124	Hospital Pharmacy
03-03-22	Morning	II	BP-125	Pharmacognosy-II
04-03-22	Morning	II	BP-126	Environmental Study & Disaster Management
11-03-22	Morning	III	BP-232	Unit Operation-II
14-03-22	Morning	III	BP-233	Physical Pharmacy-I
15-03-22	Morning	III	BP-234	Pharmacognosy-III
16-03-22	Morning	III	BP-235	Pharmaceutical Statistics
17-03-22	Morning	III	BP-236	Computer Science & Applications
19-03-22	Morning	III	BP-231	Pharmaceutical Analysis-I
18-02-22	Evening	IV	BP-241	Pharmaceutical Analysis-II
19-02-22	Evening	IV	BP-242	Pharmaceutical Microbiology
21-02-22	Evening	IV	BP-243	Physical Pharmacy-II
22-02-22	Evening	IV	BP-244	Pharmacognosy-IV

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Date	Session	Sem.	Sub- Code	Subject -Title
23-02-22	Evening	IV	BP-245	Pathophysiology
04-03-22	Evening	V	BP-351	Bio-Chemistry
05-03-22	Evening	V	BP-352	Medicinal Chemistry-I
07-03-22	Evening	V	BP-353	Pharmacology-I
08-03-22	Evening	V	BP-354	Pharmaceutical Biotechnology
09-03-22	Evening	V	BP-355	Pharmaceutical Industrial Management
10-03-22	Evening	V	BP-356	Herbal Drug Technology
24-02-22	Evening	VI	BP-361	Medicinal Chemistry-II
25-02-22	Evening	VI	BP-362	Chemistry of Natural Products
26-02-22	Evening	VI	BP-363	Pharmacology-II
28-02-22	Evening	VI	BP-364	Pharmaceutical Technology-I
02-03-22	Evening	VI	BP-365	Clinical Pharmacy
03-03-22	Evening	VI	BP-366	Pharmaceutical Jurisprudence & Intellectual Property Rights
05-03-22	Morning	VII	BP-472	Pharmacology-III
07-03-22	Morning	VII	BP-473	Pharmaceutical Technology-II
08-03-22	Morning	VII	BP-474	Bio Pharmaceutics & Pharmacokinetics
09-03-22	Morning	VII	BP-475	Communication Skills
10-03-22	Morning	VII	BP-471	Medicinal Chemistry-III
11-03-22	Evening	VIII	BP-481	Instrumental Methods of Analysis
14-03-22	Evening	VIII	BP-482	Novel Drug Delivery Systems
15-03-22	Evening	VIII	BP-483	Quality Control & Quality Assurance
16-03-22	Evening	VIII	BP-484	Industrial Pharmacognosy


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July 2022

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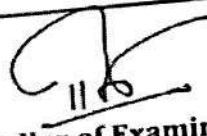



Himachal Pradesh Technical University Hamirpur
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B.Pharmacy (PCI) Date Sheet of Theory Examination July-2022

Morning Session (09.00 AM To 12.00 N)

Date	Sem.	Sub-Code	Subject-Title
09-07-22	VIII	BP -801T	Biostatistics and Research Methodology
11-07-22	VIII	BP- 802T	Social and Preventive Pharmacy
13-07-22	VIII	BP- 803ET or BP- 804ET	Pharma Marketing Management or Pharmaceutical Regulatory Science
15-07-22	VIII	BP- 805ET or BP-808ET	Pharmacovigilance or Cell and Molecular Biology
18-07-22	VIII	BP- 809ET or BP- 810ET	Cosmetic Science or Experimental Pharmacology
20-07-22	VIII	BP-811ET or BP-806ET	Advanced Instrumentation Techniques or Quality control and Sstandardization of Herbals
21-07-22	VIII	BP-205 T	Computer Applications in Pharmacy * (Lateral Entry)


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DEPARTMENT OF PHARMACEUTICS

Academic Session: March-July 2022

Course Name : B.Pharmacy
Student's Batch: 2019- 20, 3
Semester: VI (B)
Name of Subject: Pharmaceutical Biotechnology
Subject Code: BP605T
Faculty Incharge: Mrs. Archana Choudhary

HOD


Director cum Principal

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Table of Contents

Sr. No.	Description	Remarks
1.	Academic Calendar	Yes
2.	Syllabus	Yes
3.	Master Time Table	Yes
4.	Individual Time Table	Yes
5.	Course objectives/ Academic Activities	Yes
6.	Lecture (Lessor Plan) for the Course	Yes
7.	University Question Papers	Yes
8.	Question Bank (Theory)	Yes
9.	Attendance Record (Annexure Attached)	Yes
10.	Continuous Assessment Record	Yes
10.1	Sessional Series I: Question Paper, Attendance Record, Result	Yes
10.2	Sessional Series II: Question Paper, Attendance Record, Result	Yes
10.3	Sessional Series III: Question Paper, Attendance Record, Result	Yes
11.	Assignment Sheets/ Class Test/ Tutorial	Yes
12.	Subject Notes (Handwritten notes, Presentations)	Yes
13.	University Exam Result and Result Analysis	Yes
14.	CO/PO and CO/PO Mapping	Yes
15.	CO and PO Attainments	Yes


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हिमाचल प्रदेश तकनीकी विश्वविद्यालय
HIMACHAL PRADESH TECHNICAL UNIVERSITY
(A STATE GOVERNMENT UNIVERSITY)


(ACADEMIC CALENDAR FOR EVEN SEMESTER OF THE ACADEMIC SESSION 2021-22)

Sr. No.	Events	Date
1	Vacations for Faculty & Staff.	03.03.2022 to 31.03.2022
2	Reporting Date for Faculty & Staff.	01.04.2022
3	Registration for Under- Graduate & Post Graduate classes	01.04.2022 to 08.04.2022
4	Commencement of Under- Graduate & Post Graduate classes	01.04.2022
5	1 st Periodical Examinations	09.05.2022 to 13.05.2022
6	HPTU Youth Festival (place and venue to be notified separately)	21.05.2022 to 22.05.2022
7	2 nd Periodical Examination	28.06.2022 to 02.07.2022
8	End of Classes Work	08.07.2022
9	Reporting of shortage of attendance cases and display of internal sessional awards	11.07.2022
10	End Semester Practical Examinations	12.07.2022 to 16.07.2022
11	Start of End Semester Theory Examinations	18.07.2022

NOTE:

1. All affiliating colleges shall follow the academic calendar strictly. The working shall be for six days (Monday to Saturday) except public holidays from 09:00 A.M. To 05:00 P.M.
2. Academic Calendar is tentative and will depend upon the advisory and guidelines issued by different concerned authorities from time to time


Dean (Academic)


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BP 605 T. PHARMACEUTICAL BIOTECHNOLOGY (Theory)

Unit-I

- Brief introduction to Biotechnology with reference to Pharmaceutical Sciences.
- Enzyme Biotechnology- Methods of enzyme immobilization and applications.
- Biosensors- Working and applications of biosensors in Pharmaceutical Industries.
- Brief introduction to Protein Engineering.
- Use of microbes in industry. Production of Enzymes- General consideration - Amylase, Catalase, Peroxidase, Lipase, Protease, Penicillinase.
- Basic principles of genetic engineering

Unit-II

- Study of cloning vectors, restriction endonucleases and DNA ligase.
- Recombinant DNA technology. Application of genetic engineering in medicine.
- Application of r DNA technology and genetic engineering in the production of:
i) Interferon ii) Vaccines- hepatitis- B iii) Hormones-Insulin.
- Brief introduction to PCR

Unit-III

Types of immunity- humoral immunity, cellular immunity

- Structure of Immunoglobulins
- Structure and Function of MHC
- Hypersensitivity reactions, Immune stimulation and Immune suppressions.
- General method of the preparation of bacterial vaccines, toxoids, viral vaccine, antitoxins, serum-immune blood derivatives and other products relative to immunity.
- Storage conditions and stability of official vaccines
- Hybridoma technology- Production, Purification and Applications
- Blood products and Plasma Substitutes

Unit-IV

- Immuno blotting techniques- ELISA, Western blotting, Southern blotting.
- Genetic organization of Eukaryotes and Prokaryotes
- Microbial genetics including transformation, transduction, conjugation, plasmids and transposons
- Introduction to Microbial biotransformation and applications.
- Mutation: Types of mutation/mutants.

Unit-V

- Fermentation methods and general requirements, study of media, equipments, sterilization methods, aeration process, stirring.
- Large scale production fermenter design and its various controls.
- Study of the production of - penicillins, citric acid, Vitamin B12, Glutamic acid, Griseofulvin,
- Blood Products: Collection, Processing and Storage of whole human blood, dried human plasma, plasma Substitutes.

Signature

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w.e.f. - 28/03/2022

Time-Table for 6th Semester (Section-B)


Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1.30PM – 4.30PM		
	Theory/Practical				Theory/ Practical		
Mon.	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30	LUNCH BREAK	1:30-2:30	2:30 – 3:30	3:30 – 4:30
	Biopharm: (AC)	Herbal Drug Technology (CPS)	Med Chem (UP)		P'cology (SKK)	Herbal Drug Technology (CPS)	Biotech (AC)
Tue.	Biopharm (AC)	Med Chem (UP)	P'cology (SKK)		Quality Assurance (PK)	Herbal Drug Technology (CPS)	Biopharm (AC)
Wed.	Quality Assurance (PK)	Med Chem (UP)	Biopharm (AC)		A-Batch		B-Batch
					P'cology (SS)		Weekly test (SKK, UP, CPS)
Thur.	P'cology (SKK)	Herbal Drug Technology (CPS)	Bioiech (AC)		Weekly test (UP, PC, SKK)		P'cology (SS)
Fri.	A-Batch		B-Batch		1:30-2:30	2:30 – 3:30	3:30 – 4:30
	Herbal Drug Technology (PC)		Med Chem (UP)		Biotech(AC)	Quality Assurance (PK)	P'cology (SKK)
Sat.	Med Chem (UP)	Herbal Drug Technology (PC)		Quality Assurance (PK)	Med Chem (UP)	Biotech (AC)	

CPS: Prof. CPS Verma; SKK: Mr. Shiv Kumar Kushwaha, AC: Ms. Archana Choudhary; UP: Ms. Upasana Thakur; PK: Ms. Pooja Kaushal;
PC: Ms. Pratibha Chaudhary

Principal

Individual workload

Days	9:30AM – 12:30 P M			12:30PM – 1:30PM	1.30PM – 4.30PM		
	Theory/Practical				Theory		
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		1:30-2:30	2:30 – 3:30	3:30 – 4:30
Mon.	Biopharmceutics 6th B			LUNCH BREAK			Biotechnology 6th B
Tue.	Biopharmceutics 6th B						Biopharmceutics 6th B
Wed.			Biopharmceutics 6th B				
Thur.			Biotechnology 6th B				
Fri.						Biotechnology 6th B	
Sat.							Biotechnology 6th B


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- Course Objectives:** Upon completion of the subject student shall be able to;
- Understand the importance of Immobilized enzymes in Pharmaceutical Industries
 - Genetic engineering applications in relation to production of pharmaceuticals
 - Importance of Monoclonal antibodies in Industries
 - Appreciate the use of microorganisms in fermentation technology

Component	Components of Evaluation	Nature of exam
Theory	First sessional exam	MCQ, Short essay and long essay questions
	End sessional exam	MCQ, Short essay and long essay questions
Overall evaluation	External exam – semester wise	Very short questions, Short essay and long essay questions

EXTRACT OF COLLEGE WORKING DAYS

Year	Month	No. of Working Days / No of working Periods
2022	April	15
	May	14
	June	16

Total No of Working Days/ Working Periods: 45

Last Working Day: 25-06-2022

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TEACHING PLAN

Date	Unit	Total No. of classes	Topic to be covered in One Lecture	Reg/ Additional	Books Referred	Teaching aids used PPT/BB
02-04-22	I.	1	Brief introduction to Biotechnology with reference to Pharmaceutical Sciences		T1, T2, T3, T4	BB
05-04-22		1	Enzyme Biotechnology- Methods of enzyme immobilization and applications.			
07-04-22		1	Biosensors- Working and applications of biosensors in Pharmaceutical Industries.			
08-04-22		1	Brief introduction to Protein Engineering.			
09-04-22		1	Use of microbes in industry. Production of Enzymes- General consideration - Amylase			
12-04-22		1	Catalase, Peroxidase,			
19-04-22		1	Use of microbes in industry. Production of Enzymes- General consideration - Lipase, Protease,			
21-04-22		1	Penicillinase.			
22-04-22		1	Basic principles of genetic engineering			
23-04-22		II.	1	Study of cloning vectors		
26-04-22	1		Restriction endonucleases and			


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28-04-22		1	DNA ligase Recombinant DNA technology. Application of genetic engineering in medicine.		
29-04-22		1	Brief introduction to PCR		
30-04-22		1	Application of r DNA technology and genetic engineering in the production of: i) Interferon		
03-05-22		1	.ii) Vaccines- hepatitis- B iii) Hormones-Insulin.		
05-05-22		1	Test		
07-05-22	III	1	Types of immunity- humoral immunity, cellular immunity	T1,T2,T3, T4	BB
10-05-22		1	Structure of Immunoglobulins		
17-05-22		1	Structure and Function of MHC		
19-05-22		1	Hypersensitivity reactions, Immune stimulation and Immune suppressions		
20-05-22		1	Storage conditions and stability of official vaccines		
21-05-22		1	Hybridoma technology- Production, Purification and Applications		
24-05-22		1	Blood products and Plasma Substitutes		
26-05-22		1			

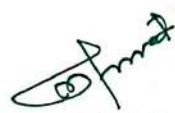

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27-05-22		1	General method of the preparation of bacterial vaccines, toxoids,			
28-05-22		1	General method of the preparation of viral vaccine, antitoxins, serum-immune blood derivatives and other products relative to immunity.			
31-05-22		1	Test			
02-06-22	V.	1	Fermentation methods and general requirements, study of media		T1,T2,T3, T4	BB
03-06-22		1	Equipments, sterilization methods, aeration process, stirring.			
04-06-22		1	Large scale production fermenter design and its various controls.			
07-06-22		1	Study of the production of - penicillins, citric acid			
09-06-22		1	Study of the production of - Vitamin B12, Glutamic acid, Griseofulvin			
10-06-22			Test			
11-06-22	IV.	1	Immuno blotting techniques- ELISA		T1,T2,T3, T4	BB

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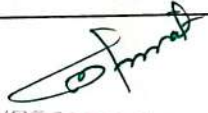
		, Western blotting , Southern blotting.		
14-06-22	1	Genetic organization of Eukaryotes and Prokaryotes		
16-06-22	1	Microbial genetics including transformation, transduction, conjugation, plasmids and transposons.		
17-06-22	1	Microbial genetics including transformation, transduction, conjugation, plasmids and transposons.		
18-06-22	1	Introduction to Microbial biotransformation and applications		
21-05-22	1	Mutation: Types of mutation/mutants.		
23-05-22	1	Mutation: Types of mutation/mutants.		
24-05-22	1	Test		
25-05-22	1	Test		

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REFERENCES

Code	Author(s)	Book Title	Publisher
T1	K.Sambamurty Ashutosh Khar	Pharmaceutical Biotechnology	New Age, Internation Limited
T2	SP Vyas VK Dixit	Pharmaceutical Biotechnology	CBS Publishers
T3	SS Kori M A Halkai	Pharmaceutical Biotechnology	Vallabh Prakashan
T4	Kulkarni T	Biotechnology And its Applications in Pharmacy	JayPee Brothers


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QUESTION BANK OF PHARMACEUTICAL BIOTECHNOLOGY (BP605T)

Long Answer Type Question

1. Explain the different methods of immobilization of enzyme. And give its applications
2. Describe the production of hepatitis B vaccine.
3. Explain the production of Griseofulvin and Penicillin by fermentation technology with a neat labelled flow chart.
4. What are biosensors? Explain the types with pharmaceutical applications.
5. Write a detailed note on cloning vectors.
6. Describe the production of citric acid by fermentation technology with a neat labelled flow chart.
7. Explain different methods of enzyme immobilisation with their advantages and disadvantages.
8. Describe the production of Hepatitis B vaccine. Write a note on plasmid vectors.
9. Describe the production of Penicillin by fermentation technology with a neat labelled flow chart.
10. What are biosensors? Write its principle and its functions.
11. Write in detail the production of Insulin by genetic engineering method.
12. Write in detail the different types of fermenters and its applications.
13. Write in detail the different methods of enzyme immobilization. Write its applications.
14. Write in detail three different vectors used in genetic engineering.
15. Write the design of an industrial fermenter with a neat labelled diagram.
16. What is enzyme immobilization? Explain covalent bonding and gel entrapment methods with advantages and disadvantages.
17. Describe the general method of recombinant DNA technology.
18. Describe the construction and working of a fermenter with a neat labelled diagram.
19. Describe any three methods of enzyme immobilization. Illustrate the applications of immobilised enzymes in medicine and production of pharmaceuticals.
20. Describe the production of insulin by recombinant DNA technology.
21. Describe the different methods of fermentation. Explain the production of griseofulvin by fermentation technology with a neat labelled flow chart.
22. What are biosensors? Explain the types with pharmaceutical applications.
23. Write a detailed note on cloning vectors.
24. Describe the production of citric acid by fermentation technology with a neat labelled flow chart.
25. Explain different methods of enzyme immobilisation with their advantages and disadvantages.
26. Describe the production of Hepatitis B vaccine. Write a note on plasmid vectors.


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27. Explain transduction and conjugation.
28. How to make sodium alginate beads in calcium chloride solution?
29. What is PCR? Write the working principle of PCR.
30. Explain the structure of immunoglobulins.
31. Write the production of killed bacterial vaccines.
32. Write the production of monoclonal antibodies.
33. Write in brief the western blotting technique and mention its application.
34. Write in brief about transformation with suitable examples.
35. Write briefly about different types of mutation and give its significance.
36. Write in brief the Collection, Processing and Storage of whole human blood.
37. Explain the method for determination of immobilized amylase activity.
38. Write a note on applications of genetic engineering in medicine production.
39. Write a note on Immune stimulation and Immune suppression.
40. Write in brief structure and function of MHC.
41. Write a note on storage and stability of vaccines.
42. Write in brief the southern blot technique and mention its applications.
43. Write in brief about transduction. Explain the types.
44. Describe ELISA with its applications.
45. Define fermentation and write the production of Vitamin B12.
46. Describe the production and uses of amylase.
47. Explain the production of insulin by rDNA technology.
48. Describe the technique of polymerase chain reaction (PCR).
49. Explain the production of penicillin G by fermentation technology.
50. Classify immunity. Write the difference between active and passive immunity.
51. Outline the general method for the preparation of live attenuated bacterial vaccines.
52. Describe the structure of an immunoglobulin with a neat labelled diagram.
53. Describe ELISA with its applications.
54. Explain microbial biotransformation with examples.
55. Describe the production and uses of penicillinase. List out advantages of 56. production of enzymes from microbial sources.
57. Explain the production of hepatitis B vaccine by rDNA technology.
58. What are restriction enzymes? Explain the types and their role in genetic engineering.
59. Explain different types of mutations.


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Section -A (Answer all questions.)
(10X1=10 Marks)

- Catalase is the enzyme that catalyses the decomposition of.....
 - Hydrogen Peroxide
 - Hydrochloric acid
 - Carbohydrate
 - Ligase is a
- A vector is used to:
 - Transfer a gene
 - Produce a gene
 - Enzyme are
 - Ligase is a
- Enzyme are:
 - Carbohydrate
 - DNA molecules
 - Enzymes are:
 - Ligase is a:
- Biotechnology was first coined by:
 - Alexander Flemming
 - wasten & Crick
 - Nucleic acid
 - Proteins
- Joining enzyme
- Removing enzyme
- Biotechnology was first coined by:
 - Alexander Flemming
 - Karoly Ereky
 - wasten & Crick
 - Messelson
- Define Enzyme Immobilization.
- Define Biosensors.
- Define Protein engineering.
- Define Biotechnology
- What are the Applications of Peroxidase enzyme?

Section -B (Attempt any one question)

(1X10=10 Marks)

- Q.1 Discuss the basic principles of genetic engineering.
- Q.2 Explain the types of Biosensor and its applications.

Section-C (Attempt any two questions)

(2X5=10 Marks)

- Q.1 What are the applications of recombinant DNA Technology?
- Q.2 Explain in detail method of production of Amylase.
- Q.3 Explain the methods for immobilization of enzymes.

Section -A (Answer all questions.)
(10X1=10 Marks)

- Catalase is the enzyme that catalyses the decomposition of.....
 - Hydrogen Peroxide
 - Hydrochloric acid
 - Carbohydrate
 - Ligase is a
- A vector is used to:
 - Transfer a gene
 - Produce a gene
 - Enzymes are:
 - Ligase is a:
- Enzymes are:
 - Carbohydrate
 - DNA molecules
 - Enzymes are:
 - Ligase is a:
- Biotechnology was first coined by:
 - Alexander Flemming
 - Karoly Ereky
 - wasten & Crick
 - Messelson
- Joining enzyme
- Removing enzyme
- Biotechnology was first coined by:
 - Alexander Flemming
 - Karoly Ereky
 - wasten & Crick
 - Messelson
- Define Enzyme Immobilization.
- Define Biosensors.
- Define Protein engineering.
- Define Biotechnology.
- What are the Applications of Peroxidase enzyme?

Section -B (Attempt any one question)

(1X10=10 Marks)

- Q.1 Discuss the basic principles of genetic engineering.
- Q.2 Explain the types of Biosensor and its applications.

Section-C (Attempt any two questions)

(2X5=10 Marks)

- Q.1 What are the applications of recombinant DNA Technology?
- Q.2 Explain in detail method of production of Amylase.
- Q.3 Explain the methods for immobilization of enzymes.


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Section -A (Answer all questions.)
(10X1=10 Marks)
Q1.

- A) What is the difference between innate and Acquired Immunity?
- B)is the first Ig to be made by Fetus.
- C) What is the function of MHC?
- D) Difference between Active immunity and Passive immunity.
- E) What is the use of Sparger in Bioreactors?
- F) Define Hybridomas.
- G) Define Vaccines.
- H) Define ELISA.
- I) Define Fermentation.
- J) Difference between Eukaryotes and Prokaryotes.

Section -B (Attempt any one question)
(1X10=10 Marks)

- Q.2 Define Hypersensitivity reaction . Give its classification and write in detail about immunostimulants and immunosuppressants?
- Q. 3. What is Hybridoma technology? Write in brief About various steps involved in the production of Monoclonal Antibodies.

Section-C (Attempt any two questions)
(2X5=10 Marks)

- Q.4 Explain the collection, Processing and storage of Plasma substitutes.
- Q.5 Give the Structure and function of immunoglobulins.
- Q.6 Give the production of Citric Acid and Glutamic Acid.

Section -A (Answer all questions.)
(10X1=10 Marks)
Q1.

- A) What is the difference between innate and Acquired Immunity?
- B)is the first Ig to be made by Fetus.
- C) What is the function of MHC?
- D) Difference between Active immunity and Passive immunity.
- E) What is the use of Sparger in Bioreactors?
- F) Define Hybridomas.
- G) Define Vaccines.
- H) Define ELISA.
- I) Define Fermentation.
- J) Difference between Eukaryotes and Prokaryotes.

Section -B (Attempt any one question)
(1X10=10 Marks)

- Q.2 Define Hypersensitivity reaction . Give its classification and write in detail about immunostimulants and immunosuppressants?
- Q. 3. What is Hybridoma technology? Write in brief About various steps involved in the production of Monoclonal Antibodies.

Section-C (Attempt any two questions)
(2X5=10 Marks)

- Q.4 Explain the collection, Processing and storage of Plasma substitutes.
- Q.5 Give the Structure and function of immunoglobulins.
- Q.6 Give the production of Citric Acid and Glutamic Acid.

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First Sessional theory Exam. Mark Sheet, May 2022

B. Pharm 6th Semester, Section - B

Subject with Code: Pharmaceutical Biotechnology(BP605T)

Date: 13/05/22

Roll. No.	Marks out of 30		Roll No.	Marks out of 30	
	Name of Student	Marks		Name of Student	Marks
1931141051	Neeraj Kumari	21	1931141077	Sakshi	27
1931141052	Neha Bharti	24	1931141078	Sanket Sharma	23
1931141053	Nikhil	18	1931141079	Saurav Chodhary	24
1931141054	Nikhil Rana	19	1931141080	Sehdev Chandel	15
1931141055	Nishad Malik	24	1931141081	Shagun Choudhary	17
1931141056	Pardyum Kaushal	19	1931141082	Shalini Sharma	26
1931141057	Parvez Khan	19	1931141083	Shipali Sharma	26
1931141058	Prajwal Mehta	12	1931141085	Shubdeep Singh	24
1931141059	Pranshul Awasthi	18	1931141086	Simran	25
1931141060	Pratham Sharma	16	1931141087	Simran	24
1931141061	Priya Rana	Absent	1931141088	Sourabh Kumar	06
1931141062	Rahil Randhawa	15	1931141089	Sushant Thakur	19
1931141063	Rahul Bhardwaj	21	1931141090	Sweety Rajwal	21
1931141064	Rahul Thakur	24	1931141091	Tamanna Kumari	26
1931141065	Ramesh Kumar	09	1931141092	Tanish Kumar Dhiman	10
1931141066	Richa Sharma	23	1931141093	Tarun	18
1931141067	Riya Parmar	22	1931141094	Tejaswani Bhardwaj	27
1931141068	Rohan Thakur	Absent	1931141095	Uday Partap Singh Jaswal	09
1931141069	Rohit Dhillon	16	1931141096	Vanshika	25
1931141070	Ruchika	27	1931141097	Varun Bhardwaj	10
1931141071	Sagar Kumar	15	1931141099	Vishal	10
1931141072	Sahil Chopra	19	1931141100	Vishal Jamwal	19
1931141073	Sahil Choudhary	20	20023114001	Satyam	20
1931141074	Sahil Randhawa	11	20023114002	Varun	15
1931141075	Sahil Sharma	18			
1931141076	Saksham Kaistha	10			

Subject In-charge Sig.

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Second Sessional theory Exam. Mark Sheet, June, 2022

B. Pharm 6th Semester, Section - B

Subject with Code: Pharmaceutical biotechnology (BP- 605T)

Date:-09/07/2022

Roll. No.	Marks out of 30		Roll No.	Marks out of 30	
	Name of Student	Marks		Name of Student	Marks
1931141051	Neeraj Kumari	24	1931141077	Sakshi	29
1931141052	Neha Bharti	21	1931141078	Sanket Sharma	25
1931141053	Nikhil	18	1931141079	Saurav Chodhary	24
1931141054	Nikhil Rana	19	1931141080	Sehdev Chandel	25
1931141055	Nishad Malik	25	1931141081	Shagun Choudhary	22
1931141056	Pardyum Kaushal	20	1931141082	Shalini Sharma	26
1931141057	Parvez Khan	24	1931141083	Shipali Sharma	24
1931141058	Prajwal Mehta	16	1931141085	Shubhdeep Singh	21
1931141059	Pranshul Awasthi	17	1931141086	Simran	24
1931141060	Pratham Sharma	20	1931141087	Simran	22
1931141061	Priya Rana	20	1931141088	Sourabh Kumar	06
1931141062	Rahil Randhawa	18	1931141089	Sushant Thakur	13
1931141063	Rahul Bhardwaj	18	1931141090	Sweety Rajwal	19
1931141064	Rahul Thakur	22	1931141091	Tamanna Kumari	19
1931141065	Ramesh Kumar	17	1931141092	Tanish Kumar Dhiman	Absent
1931141066	Richa Sharma	23	1931141093	Tarun	16
1931141067	Riya Parmar	23	1931141094	Tejaswani Bhardwaj	22
1931141068	Rohan Thakur	21	1931141095	Uday Partap Singh Jaswal	01
1931141069	Rohit Dhillon	20	1931141096	Vanshika	28
1931141070	Ruchika	27	1931141097	Varun Bhardwaj	07
1931141071	Sagar Kumar	20	1931141099	Vishal	10
1931141072	Sahil Chopra	20	1931141100	Vishal Jamwal	08
1931141073	Sahil Choudhary	23	20023114001	Satyam	17
1931141074	Sahil Randhawa	18	20023114002	Varun	17
1931141075	Sahil Sharma	19			
1931141076	Saksham Kaistha	15			

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Laureate Institute of Pharmacy

Kathog (Jawalaji), Teh. Dehra, Distt. Kangra (H.P.)

Third Sessional theory Exam. Mark Sheet, July 2022

B. Pharm 6th Semester, Section - B

Subject with Code: Pharmaceutical biotechnology (BP- 605T)

Date:-05/07/2022

Roll. No.	Marks out of 30		Roll No.	Marks out of 30	
	Name of Student	Marks		Name of Student	Marks
1931141051	Neeraj Kumari		1931141077	Sakshi	
1931141052	Neha Bharti		1931141078	Sanket Sharma	
1931141053	Nikhil		1931141079	Saurav Chodhary	
1931141054	Nikhil Rana		1931141080	Sehdev Chandel	
1931141055	Nishad Malik		1931141081	Shagun Choudhary	
1931141056	Pardyum Kaushal		1931141082	Shalini Sharma	
1931141057	Parvez Khan		1931141083	Shipali Sharma	
1931141058	Prajwal Mehta	21	1931141085	Shubdeep Singh	
1931141059	Pranshul Awasthi		1931141086	Simran	
1931141060	Pratham Sharma		1931141087	Simran	
1931141061	Priya Rana	24	1931141088	Sourabh Kumar	23
1931141062	Rahil Randhawa		1931141089	Sushant Thakur	
1931141063	Rahul Bhardwaj		1931141090	Sweety Rajwal	
1931141064	Rahul Thakur		1931141091	Tamanna Kumari	
1931141065	Ramesh Kumar	17	1931141092	Tanish Kumar Dhiman	17
1931141066	Richa Sharma		1931141093	Tarun	
1931141067	Riya Parmar		1931141094	Tejaswani Bhardwaj	
1931141068	Rohan Thakur	22	1931141095	Uday Partap Singh Jaswal	25
1931141069	Rohit Dhillon		1931141096	Vanshika	
1931141070	Ruchika		1931141097	Varun Bhardwaj	25
1931141071	Sagar Kumar		1931141099	Vishal	21
1931141072	Sahil Chopra		1931141100	Vishal Jamwal	23
1931141073	Sahil Choudhary		20023114001	Satyam	
1931141074	Sahil Randhawa	21	20023114002	Varun	
1931141075	Sahil Sharma				
1931141076	Saksham Kaistha	21			

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Subject In-charge Sig.

INTERNAL EXAM RESULT AND RESULT ANALYSIS

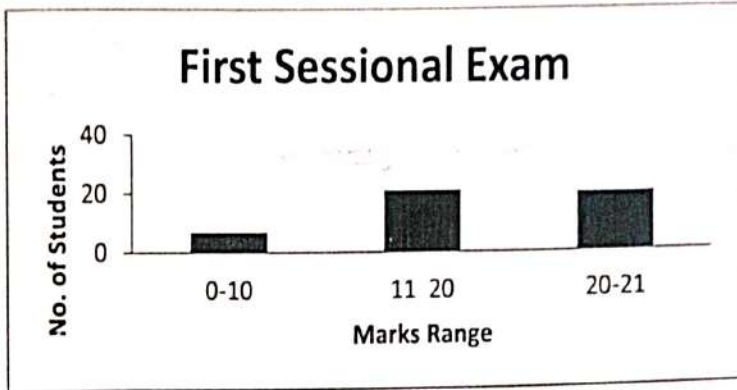
First Sessional

Total no. of students: 50

Present : 47

Absent : 03

Marks Range	No. of Students
0 -10'	07
11 - 20	21
21 - 30	20



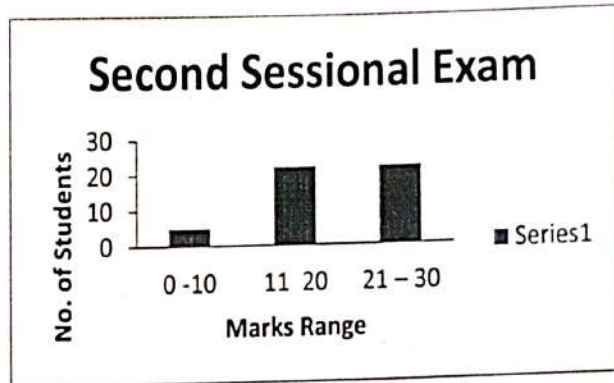
Second Sessional

Total no. of students: 50

Present : 49

Absent : 01

Marks Range	No. of Students
0 -10	5
11 - 20	22
21 - 30	22



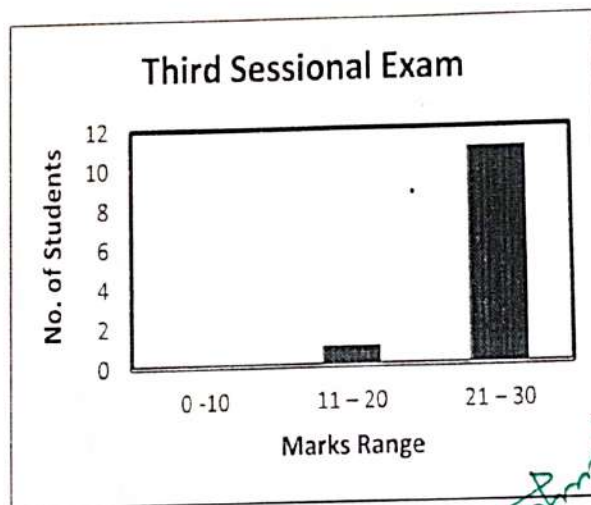
Third Sessional

Total no. of students: 12

Present: 12

Absent: 00

Marks Range	No. of Students
0 -10	0
11 - 20	01
21 - 30	11



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Assignment of Pharmaceutical Biotechnology

Submitted by ~ Sakshi (8/10)

Submitted to ~ Ms. Archana choudhary

Roll-No ~ 1931141077

Class ~ B. Pharmacy 6th Sem.

Section ~ B

~~Class
22/06/22
Smit~~

Hypersensitivity Reactions

Hypersensitivity reactions are the undesirable reactions which are produced by the normal immune system.



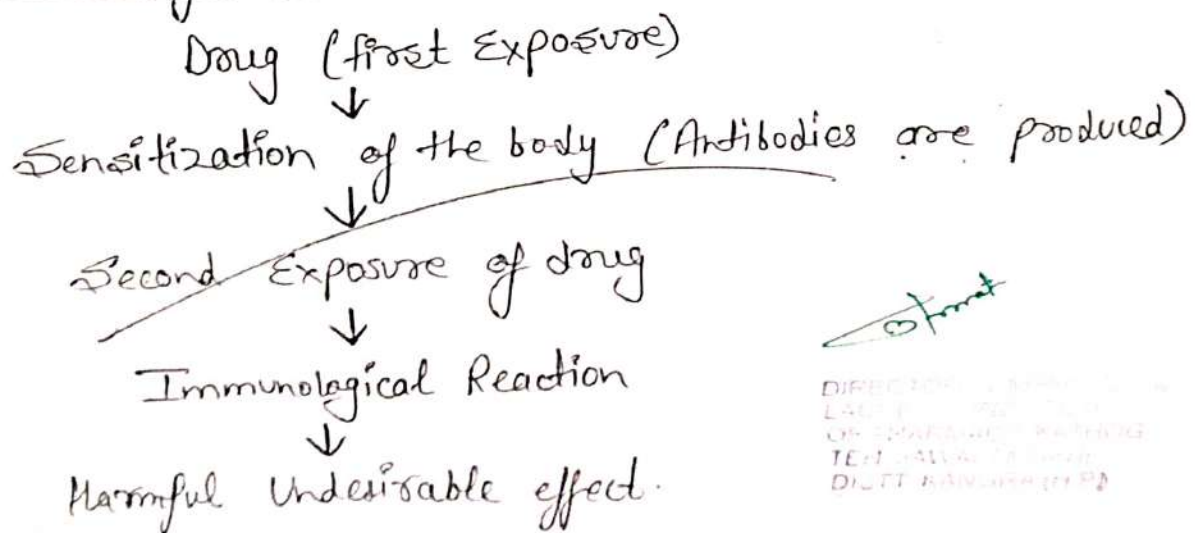
Hypersensitivity reactions refers to immune & inflammatory responses which are harmful to the host.

⇒ Classification

Hypersensitivity reactions are 4 types:

1. Type - I - Allergy (immediate or anaphylactic)
2. Type - II - Cytotoxic, antibody dependent
3. Type - III - Immune complex
4. Type IV - Cell mediated or delayed.

Mechanism of Action



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Immediate Hypersensitivity Reactions

Type I Type II Type III (24hr) Allergic response

Delayed Hypersensitivity Reactions

Type IV (48-72 hr)

= Type I hypersensitivity :- Type I hypersensitivity is an allergic reactions which is caused by re-exposure to a specific antigen.

It is also called IgE mediated hypersensitivity.

Drug (first exposure)

Sensitization of the body

Generation of Antibodies (IgE)

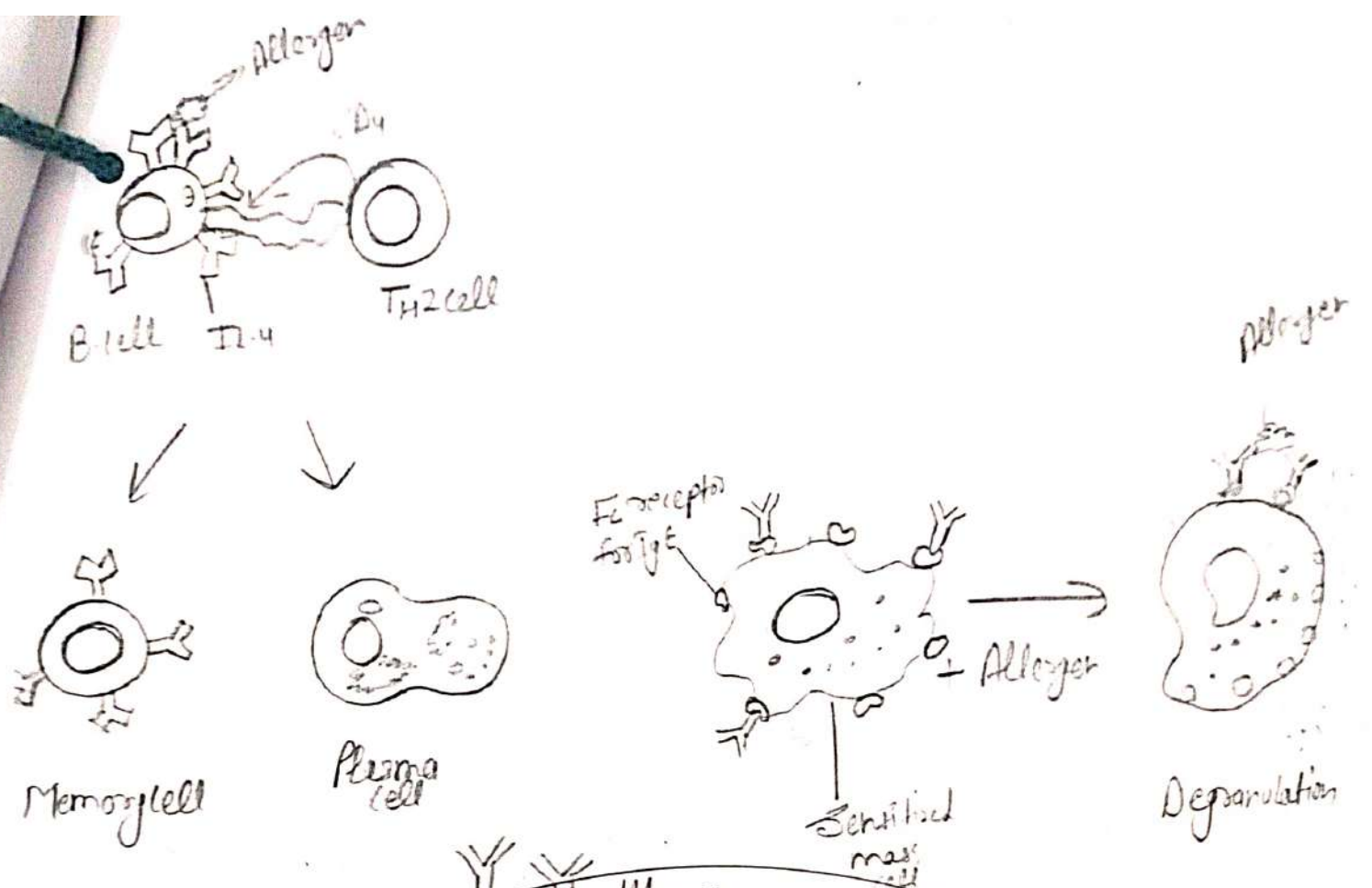
Second exposure of drug

Antigen - Antibody Reaction

Release of histamine, tryptase, PAF,
Bronchial asthma, allergic conjunctivitis

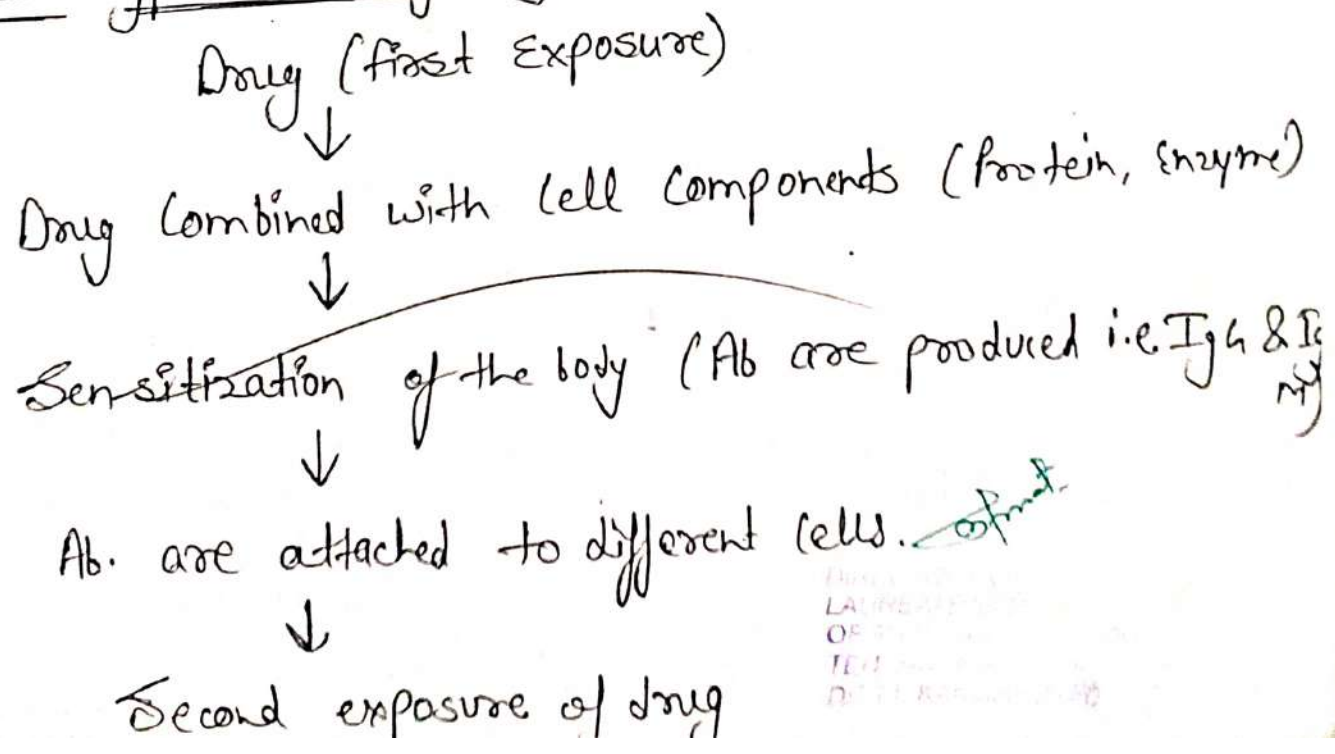
Vasodilation

Broncho constriction, itching.



Mechanism of Action of Type I Hypersensitivity

2) Type II Hypersensitivity (cytotoxic - Antibody dependent)



Antigen - Antibody reaction

↓
destruction of cells

↓
Haemolysis, Aplastic, anemia

⇒ The mechanism of Type-2 hypersensitivity include:

1) Opsonization & phagocytosis: Many cells type like macrophages, neutrophils, NK cells will cause lysis of target cell coated by IgG.

2) Complement mediated Inflammation: In this antibody reacts with the cell surface antigen leading to fixation of complement system & then cell lysis.

3) Antibody-mediated cellular dysfunction: In some cases antibody is directed against cell surface receptor impairing the function
↓
but do not cause cell injury.

3) Type III - hypersensitivity (Immune Complex Reaction)

Dry (first exposure)

↓
Sensitization of the body (Ab are produced IgG)
↓

IgG freely move in blood



Second Exposure of drug



Ag - Ab rxn → Ag - Ab Complex



Complex attach to the vessel / capillaries



destroy endothelial layer



Skin rashes, itching.

Type III Hypersensitivity rxn are of 2 types

1) Local or Arthus reactions

2) Systemic or Circulating immune complex disease or Serum Sickness.

1) Type IV - Hypersensitivity (Delayed or cell mediated Rxn)

Drug (first exposure)



Sensitization of the body



Generation new T-lymphocyte having receptor
to bind drug another surface.



Second exposure of drug

Ag - bind with T-lymphocytes

↓
Release of lymphokines

↓
Dermatitis

↓
Granuloma formations.

★ Immune Stimulation

It is the process of stimulation of immune system to protect the body from microorganism.

↓
These drugs are commonly used to enhance the body immunity.

⇒ Classification

Categorised into 2 types!

1) Specific immunostimulant :- Specific immunostimulant are those which provides antigenic specificity in immune response, such as vaccines & antigens

2) Non-specific immunostimulants :- Non-specific immunostimulant are those which act regardless of antigenic specificity

↑
For the immune response of other antigen

or stimulate the components of immune system without antigenic specificity, such as adjuvants & non-specific immunostimulators.

⇒ Different Types of Immunostimulants

- ① Bacterial Vaccines
- ② Colony Stimulating factors
- ③ Interferons
- ④ Interleukins
- ⑤ Therapeutic Vaccines
- ⑥ Vaccine Combinations
- ⑦ Viral Vaccines

① Bacterial Vaccines :- Bacteria vaccine contain killed or weakened bacteria which stimulate the immune system.

For Example, Tuberculosis Vaccine is a bacterial vaccine.

Uses: BCG or TB vaccine is used in many countries with a high prevalence of TB
↓
to prevent childhood TB, meningitis & military disease.

② Colony Stimulating factors

Colony stimulating factors are the glycoproteins which boost the production of WBC, mainly granulocytes such as neutrophils, in response to infection.

③ Interferons :- Interferons are the cytokines which are produced by host cell

↓
in response to viral infections.

↓
Three types of α , β & γ interferons in man.

↓
Prevent the multiplication of many DNA & RNA viruses.

↓
Antiproliferative as well as immunomodulating properties

④ Interleukins :- Interleukins are a group of cytokines

↓
produced by lymphocytes, monocytes, macrophages & certain other cells.

e.g :- Interleukin, Oporeukin etc.

Use :- Used in the treatment of cancer therapy.

⑤ Therapeutic Vaccines

↓
Vaccines which are used to treat a disease by activating the immune system.

⑥ Vaccine Combination :- Vaccine combinations incorporate (joint) antigens which inhibit different diseases.

Immune Suppression

Immune Suppression or Immunosuppression involves an act which decrease the activation or potency of the immune system.



Some part of the immune system itself have



immunosuppressive effect on other portion of the immune system



immunosuppression effect may occur as a harmful rxn. to the t/t of other conditions.

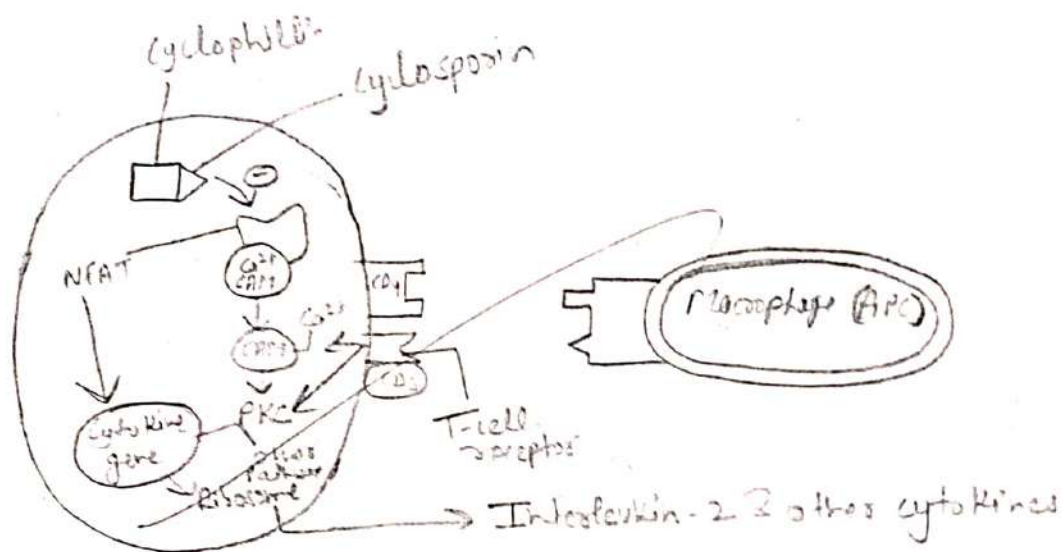
These drugs are classified into 4 categories

- 1) Calcineurin inhibitors or Specific T-cell inhibitors:
e.g Tacrolimus, Cyclosporine.
- 2) Glucocorticoids: Prednisolone, Methylprednisolone, prednisone.
- 3) Antiproliferative drugs: Methotrexate, chlorambucil, Azathioprine, cyclophosphamide.
- 4) Antibodies: Rho(D) immunoglobulin, Anti-thymocyte globulin.

1) Calcineurin inhibitors or Specific T-Cell Inhibitors

a) Cyclosporine:
Cyclosporine favorably inhibits cell mediated immune reaction
↓
whereas Humoral immunity is affected to a very lesser extent.

↓
Cyclosporine inhibits the transcription of cytokine gene in activated T cells.



Helper T cell

Mechanism of action of Cyclosporine

2) Glucocorticoids :- Glucocorticoids have powerful immunosuppressant as well anti-inflammatory action.

↓
Glucocorticoids affect mostly T-lymphocytes.

↓
They block MHC expression & proliferation of T-lymphocytes.

↓
They are able to quickly ↓ the production of lymphocyte by lysis or redistribution.

↓
Steroids after entering into the cells, they will bind to glucocorticoids receptor & this complex passes into the nucleus

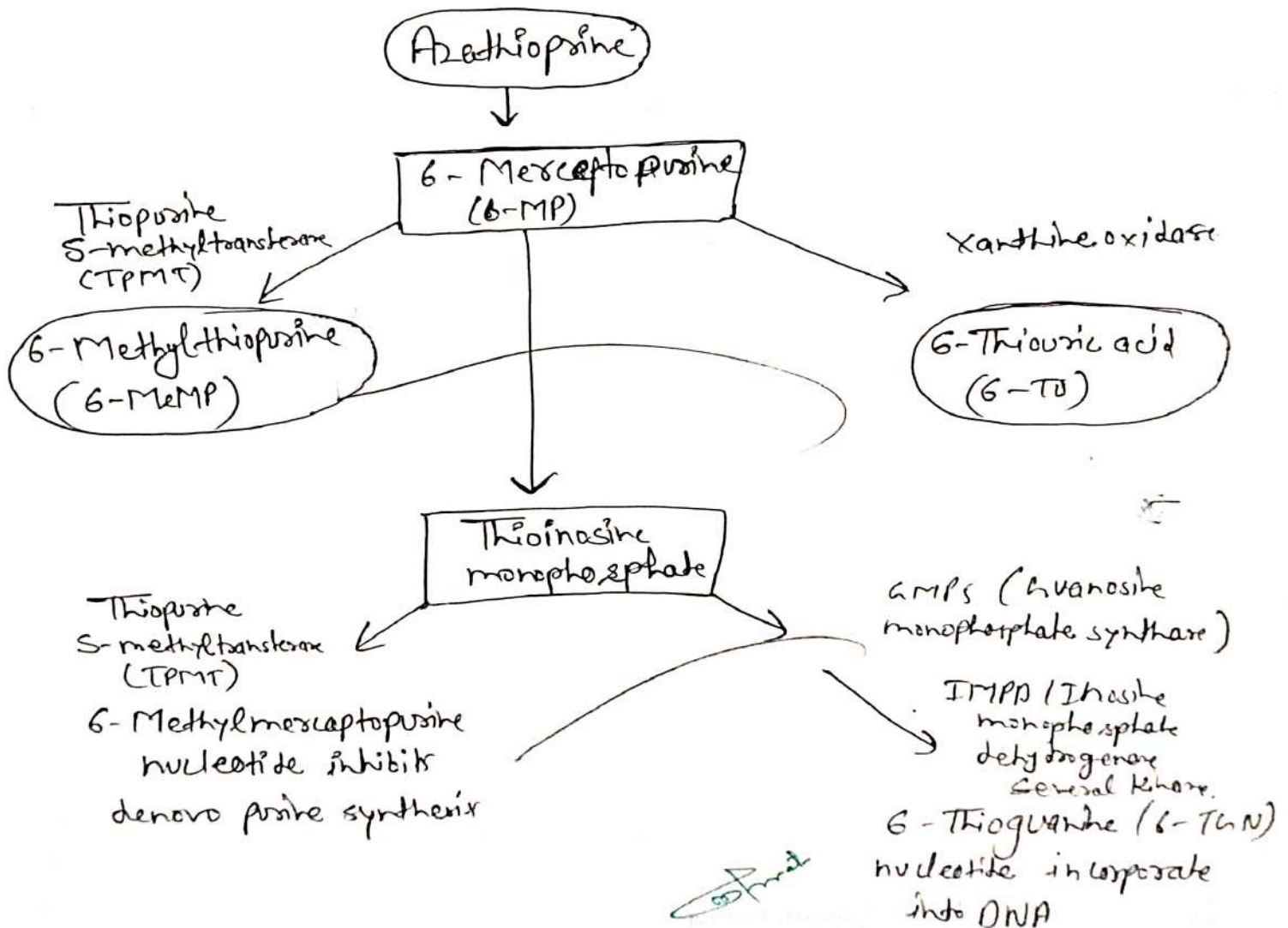
Anti-Proliferative Drugs

Methotrexate :- Methotrexate is a folate antagonist which is a strong immunosuppressant.



It suppresses the cytokine production as well as cellular immunity & has anti-inflammatory property.

Azathioprine



SESSIONAL EXAM -I							
Code: BP605T		Subject: BioTECNOLOGY		Semester: 6 th (B)		MM:30	
Date:		Duration: March- July 22		Staff: Archana Chaudhary			
Q. No.		Marks	CO	BL	PO		
Sec-A	MCQ (Compulsory)	1*10= 10	BP605T.1 BP605T.2	L1, L2	1, 2, 3,4, 5, 6,8,11		
Sec B	Answer any 1	1*10= 10					
1	Discuss the basic principles of genetic engineering.		BP605T.2	L1, L2	1, 2, 3,4, 5, 6,8,11		
2.	Explain the types of Biosensor and its applications.		BP605T.1	L1, L2	1, 2, 3,4, 5, 6,8,11		
Sec-C	Answer any two	2*5=10					
1.	What are the applications of recombinant DNA Technology?		BP605T.1 BP605T.2	L1, L2	1, 2, 3,4, 5, 6,8,11		
2.	Explain in detail method of production of Amylase		BP605T.1	L1, L2	1, 2, 3,4, 5, 6,8,11		
3.	Explain the methods for immobilization of enzymes.		BP604T.1	L1, L2	1, 2, 3,4, 5, 6,8,11		

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CO-Course Outcome:

BP605T.1	Understand the importance of Immobilized enzymes in Pharmaceutical Industries
BP605T.2	Genetic engineering applications in relation to production of pharmaceuticals
BP605T.3	Importance of Monoclonal antibodies in Industries
BP605T.4	Appreciate the use of microorganisms in fermentation technology

BL: Bloom Taxonomy

L1-Remember	L2- Understand	L3-Apply	L4 -Analyze	L5-Evaluate	L-6- Create
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PO-Programme Objectives:

1.	Pharmacy Knowledge	7.	Pharmaceutical Ethics
2.	Planning Abilities	8.	Communication
3.	Problem Analysis	9.	The Pharmacist & Society
4.	Modern Tool Usage	10.	Environment & Sustainability
5.	Leadership Skill	11.	Life Long Learning
6.	Professional Identity		

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11
BP605T.1	3	3	3	3	3	3	-	3	-	-	3
BP605T.2	3	3	3	3	3	3	-	3	-	-	3
BP605T.3	3	3	3	3	3	3	-	3	-	-	3
BP605T.4	3	3	3	3	3	3	-	3	-	-	3

Note: Correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) '--' Indicates there is no correlation.

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SESSIONAL EXAM -II							
Code: BP604T		Subject: Biotechnology		Semester: 6 th (A)		MM:30	
Date:		Duration: March- July 22		Staff: Archana Chaudhary			
Q. No.		Marks	CO	BL	PO		
Sec-A Q1	MCQ (Compulsory)	1*10= 10	BP605T.3 BP605T.4	L1, L2, L3,L4,L5,L6	1, 2, 3,4, 5, 6,8,11		
Sec B	Answer any 1	1*10= 10					
1	Define Hypersensitivity reaction . Give its classification and write in detail about immunostimulants and immunosuppressants?		BP605T.3 BP605T.4	L1, L2	1, 2, 3,4, 5, 6,8,11		
2.	What is Hybridoma technology? Write in brief About various steps involved in the production of Monoclonal Antibodies.		BP605T.3 BP605T.4	L1, L2	1, 2, 3,4, 5, 6,8,11		
Sec-C	Answer any two	2*5=10					
1.	Explain the collection,Processing and storage of Plasma substitutes.		BP605T.3 BP605T.4	L1, L2	1, 2, 3,4, 5, 6,8,11		
2.	Give the Structure and function of immunoglobulins.		BP605T.3 BP605T.4	L1, L2, L3	1, 2, 3,4, 5, 6,8,11		
3.	Give the production of Citric Acid and Glutamic Acid.		BP605T.3 BP605T.4	L1, L2	1, 2, 3,4, 5, 6,8,11		

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Assessment of course outcome (First Sessional)

Course Outcome	CO1		CO2		CO3		CO4	
	Q	Avg. %	Q	Avg. %	Q	Avg. %	Q	Avg. %
Measure	Sec A Q1	60	Q1	60	Q1	-	Q1	-
	Sec B Q1	-	Q1	83	Q1	-	Q1	-
	Q2	62	Q2	-	Q2	-	Q2	-
	Sec C Q1	32	Q3	65	Q3	65	Q3	-
	Q2	75	Q4	75	Q4	-	Q4	-
	Q3	92	Q5	-	Q5	-	Q5	-
Total Average		64.2		70.75		65		-

Course outcome mapping with Program outcome

PO1		Level of Mapping	PO's Assessment	PO's Attainment
CO1	64.2	3	66.5%	No
CO2	70.75	3		
CO3	65	3		
CO4	-	3		
PO2				
CO1	64.2	3	66.5%	No
CO2	70.75	3		
CO3	65	3		
CO4	-	3		
PO3				
CO1	64.2	3	66.5%	No
CO2	70.75	3		
CO3	65	3		
CO4	-	3		

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PO4					
CO1	64.2	3	66.5%	No	
CO2	70.75	3			
CO3	65	3			
CO4	-	3			
PO5					
CO1	64.2	3	66.5%	No	
CO2	70.75	3			
CO3	65	3			
CO4	-	3			
PO6					
CO1	64.2	3	66.5%	No	
CO2	70.75	3			
CO3	65	3			
CO4	-	3			
PO 8					
CO1	64.2	3	66.5%	No	
CO2	70.75	3			
CO3	65	3			
CO4	-	3			
PO11					
CO1	64.2	3	66.5%	No	
CO2	70.75	3			
CO3	65	3			
CO4	-	3			


Assessment of course outcome (Second Sessional)

Course Outcome	CO1		CO2		CO3		CO4	
	Q	Avg. %	Q	Avg. %	Q	Avg. %	Q	Avg. %
Measure	SecA Q1	100	Q1	100	Q1	100	Q1	100
	Sec B Q1	96	Q1	96	Q1	96	Q1	-
	Q2	95	Q2	95	Q2	95	Q2	-
	SecC Q1	73	Q3	73	Q3	73	Q3	-
	Q2	92	Q4	92	Q4	92	Q4	-
	Q3	73	Q5	73	Q5	73	Q5	-
Total Average		88.16		88.16		88.16		100

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Course outcome mapping with Program outcome

PO1		Level of Mapping	PO's Assessment	PO's Attainment
CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		
PO2				
CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		
PO3				
CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		
PO4				
CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		
PO5				
CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		
PO6				
CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		
PO 7				
CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		
PO 8				
CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		
PO11				


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CO1	88.16	3	91.12%	Yes
CO2	88.16	3		
CO3	88.16	3		
CO4	100	3		

SESSIONAL EXAM -III							
Code: BP605T		Subject: Biotechnology		Semester: 6 th (B)		MM:30	
Date:		Duration: March- July 22		Staff: Archana Chaudhary			
Q. No.		Marks	CO	BL	PO		
Sec A Q1.	All questions are Compulsory	1*10= 10	BP605T.1 BP605T.2 BP605T.3 BP605T.4	L1, L2	1, 2, 3,4, 5, 6,8,11		
Sec B	Answer any 1	1*10= 10					
1	Explain the types of Biosensor and its applications.		BP605T.1	L1, L2	1, 2, 3,4, 5, 6,8,11		
2.	What is Hybridoma technology? Write in brief About various steps involved in the production of Monoclonal Antibodies.		BP605T.3	L1, L2	1, 2, 3,4, 5, 6,8,11		
Sec-C	Answer any two	2*5=10					
3.	Explain the methods for immobilization of enzymes.		BP604T.1	L1, L2	1, 2, 3,4, 5, 6,8,11		
4.	Give the Structure and function of immunoglobulins.		BP605T.3	L1, L2,	1, 2, 3,4, 5, 6,8,11		

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5.	Give the production of Citric Acid.		BP605T.4	L1, L2	1, 2, 3,4, 5, 6,8,11			
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Assessment of course outcome (Third Sessional)

Course Outcome	CO1		CO2		CO3		CO4	
	Q	Avg. %	Q	Avg. %	Q	Avg. %	Q	Avg. %
Measure	SecA Q1	93	Q1	93	Q1	93	Q1	93
	Sec B Q1	100	Q1	100	Q1	100	Q1	100
	Q2	92	Q2	92	Q2	92	Q2	92
	SecC Q1	69	Q3	69	Q3	69	Q3	69
	Q2	80	Q4	80	Q4	80	Q4	80
	Q3	63	Q5	63	Q5	63	Q5	63
Total Average		83		83		83		83

Course outcome mapping with Program outcome (Third Sessional)

PO1		Level of Mapping	PO's Assessment	PO's Attainment
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		
PO2				
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		

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PO3				
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		
PO4				
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		
PO5				
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		
PO6				
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		
PO 7				
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		
PO 8				
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		
PO11				
CO1	83	3	83%	Yes
CO2	83	3		
CO3	83	3		
CO4	83	3		

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