



1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process



PRINCIPAL
UNITY COLLEGE OF PHARMACY
RAIGIRI (V), BHONGIR (M),
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UNITY COLLEGE OF PHARMACY

RAIGIR(V), BHONGIR(M), YADADRI BHUVANAGIRI (Dist)

B.PHARMACY I YEAR I SEMESTER TIME TABLE

2023-24

WEEK	10.00-11.00am	11.00am-12.00pm	12.00-1.00PM	1.00-1.30pm	1.30-2.30pm	2.30-3.30pm	3.30-4.30pm
Monday	H.A.P-I	P'ANALYSIS	R'MATHS	L	HAP – I LAB B-I P'ANALYSIS LAB B-II		
Tuesday	P'CUETICS	HAP-I	TUTORIALS	U	PHARMACUETICS B-I HAP-I LAB B-II		
Wednesday	C. SKILLS	P'CUETICS	HAP-I	N	PIC	R'MATHS	TUTORIALS
Thursday	P'CUETICS	PIC	C. SKILLS	C	COMM. SKILLS B-I P'CUETICS B-II		
Friday	TUTORIALS	PIC	P'ANALYSIS	H	PIC B-I COOM. SKILLS – BII		
Saturday	R'MATHS	P'ANALYSIS	TUTORIALS		P'ANALYSIS B-I PIC – BII		

H.A.P = HUMAN ANATOMY & PHYSIOLOGY-I

P,ANALYSIS = PHARMACEUTICAL ANALYSIS

P'CEUTICS = PHARMACEUTICS

PIC = PHARMA.INORGANIC CHEMISTRY

C.SKILLS = COMMUNICATION SKILLS

R'MATHS = REMEDIAL MATHEMATICS


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B.PHARMACY II YEAR I SEMESTER TIME TABLE

2023-24

WEEK	10.00-11.00am	11.00am-12.00pm	12.00-1.00PM	1.00-1.30pm	1.30-2.30pm	2.30-3.30pm	3.30-4.30pm
Monday	P' ENGG	POC-I	TUTORIALS	L	POC-II B-I P'ENGG B-II		
Tuesday	P' MICRO	POC-I	P' ENGG	U	P'ENGG B-I POC-II B-II		
Wednesday	P' MICRO	TUTORIALS	TUTORIALS	N	P' MICRO B-I PHY.PH B-I		
Thursday	PHY.PH	TUTORIALS	P' MICRO	C	SPORTS		
Friday	POC-I	TUTORIALS	P' ENGG	H	PHY.PH	SLIP TEST	
Saturday	PHY.PH	TUTORIALS	TUTORIALS		PHY.PHARMACY B-I P' MICRO – BII		

POC-I = PHARMACEUTICAL ORGANIC CHEMISTRY –I

P'ENGG = PHARMACEUTICAL ENGINEERING

P'MICRO = PHARMACEUTICAL MICROBIOLOGY

PHY.PH = PHYSICAL PHARMACY

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B.PHARMACY II YEAR II SEM TIME TABLES

2023-24

week	10.00-10.50	10.50 – 11.40	11.40-12.30	12.30-1.00	1.00-1.50	1.50-2.40	2.40-3.30
MON	P'Cog&P'Chem	POC-III	P'Cology-II	L	P'cognosy and Phy.chemistry-I BILab Pharmacology-I Lab BII		
TUE	Medichem-I	P'Cog&P'Chem	POC-III	U	Medicinal Chemistry-I Lab BI Physical Pharmacy lab BII		
WED	Phy.Pharm-II	POC-III	--	N	Medichem-I	P'Cology-II	-
THUR	Phy.Pharm-II	P'Cog&P'Chem	P'Cology-II	C	Medichem-I	P'Cog&P'Chem	-
FRI	P'Cog&P'Chem	Phy.Pharm-II	POC-III	H	Physical Pharmacy lab BI Medicinal Chemistry-I Lab BII		
SATUR	Phy.Pharm-II	Medichem-I	--		Pharmacology-I Lab B I P'cognosy and Phy.chemistry-I BII Lab		

Medichem-II = Medicinal Chemistry-I

POC-III = Pharmaceutical Organic Chemistry-III

P'Cology-I = Pharmacology-I

Phy.Pharm-II = Physical pharmaceutics-II

P'Cog&P'Chem =Pharmacognosy and phytochemistry-I


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B.PHARMACY III YEAR I SEMESTER TIME TABLE

2023-24

WEEK	10.00-11.00am	11.00am-12.00pm	12.00-1.00PM	1.00-1.30pm	1.30-2.30pm	2.30-3.30pm	3.30-4.30pm
Monday	MEDI. CHEM-II	I.P –I	TUTORIALS	L	C-SCIENCE	P' COL-II	EVS
Tuesday	IP-I	MEDI. CHEM-II	TUTORIALS	U	SPORTS		
Wednesday	I.P –I	P' COL-II		N		TUTORIALS	P' COG & PHY
Thursday	P'COG & P' CHE	P' COL-II	C-SCIENCE	C	MEDI. CHEM II B-I INDUSTRIAL PHARM B-II		
Friday	MEDI. CHEM-II	TUTORIALS	C-SCIENCE	H	INDUSTRIAL PHARM P'COG & PHYTO B-II		
Saturday	P'COG & P' CHE	C-SCIENCE	TUTORIALS		P'COG & PHYTO B-I MEDI. CHEM II B-II		

MEDI.CHEM-II = MEDICINAL CHEMISTRY

IP –I = INDUSTRIAL PHARMACY

P'COL-II = PHARMACOLOGY-II

P'COG&P'CHEM-II = PHARMACOGNOSY & PHYTOCHEMISTRY-II

C-SCIENCE = COSMETIC SCIENCES


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B.PHARMACY III YEAR II SEM TIME TABLES

2023-24

week	10.00-10.50	10.50 – 11.40	11.40-12.30	12.30-1.00	1.00-1.50	1.50-2.40	2.40-3.30
MON	P'Col-III	-	Medichem-III	L	Herbal Drug Technology Lab BI Medicinal chemistry-III BII		
TUE	P'Col-III	-	Medichem-III	U	Pharmacology-III Lab BI Herbal Drug Technology Lab BII		
WED	Pha.Qua.Ass	Medichem-III	Medichem-III	N	Bio.Pha.&P'Kint.	Herb.Drug.Tech	
THUR	Pha.Qua.Ass	Bio.Pha.&P'Kint.	Herb.Drug.Tech	C	P'Col-III	Herb.Drug.Tech	
FRI	Herb.Drug.Tech	Pha.Qua.Ass	-	H	Bio.Pha.&P'Kint.	Slip test/Library/Sports	
SATUR	Pha.Qua.Ass	Bio.Pha.&P'Kint.	P'Col-III		Medicinal Chemistry-III Lab BI Pharmacology-III Lab BII		

P'Col-III = Pharmacology-III

Medichem-III = Medicinal Chemistry-III

Pha.Qua.Ass = Pharmaceutical Quality Assurance

Bio.Pha.&P'Kint. = Biopharmaceutics and Pharmacokinetics

Herb.Drug.Tech = Herbal Drug Technology

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B.PHARMACY IV YEAR I SEMESTER TIME TABLE

2023-24

WEEK	10.00-11.00am	11.00am-12.00pm	12.00-1.00PM	1.00-1.30pm	1.30-2.30pm	2.30-3.30pm	3.30-4.30pm
Monday	P.P	P. MARKET	IMA	L	IMA B-I SEMINARS B-II		
Tuesday	P. MARKET	TUTORIALS	IP-II	U	SEMINARS B-I IMA B-II		
Wednesday	P.P	P. MARKET	TUTORIALS	N	SPORTS		
Thursday	IP-II	NDDS	P. MARKET	C	IMA	NDDS	P.P
Friday	NDDS	IP-II	IMA	H	IMA B-I PRACTICE SCHOOL B-II		
Saturday	IMA	NDDS	P.P		IMA B-II PRACTICE SCHOOL B-I		

NDDS = NOVEL DRUG DELIVERY SYSTEM

IMA = INSTRUMENTAL METHODS OF ANALYSIS

P'MARKET = PHARMACEUTICAL MARKETING

PP = PHARMACY PRACTICE

IP-II = INDUSTRIAL PHARMACY=II

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B.PHARMACY IV YEAR II SEM TIME TABLES

2023-24

week	10.00-10.50	10.50 – 11.40	11.40-12.30	12.30-1.00	1.00-1.50	1.50-2.40	2.40-3.30
MON	Project Review	Nano Tech	Soci.Pre.Ph	L	Project work		
TUE	Nano Tech	Soci.Pre.Ph	Project Review	U	Project work		
WED	Nano Tech	P'Jurisprudence	P'Jurisprudence	N	Project work		
THUR	Project Review	P'Jurisprudence	P'Jurisprudence	C	Nano Tech	Soci.Pre.Ph	
FRI	Bio.&Res.Met	Bio.&Res.Met	Project Review	H	Soci.Pre.Ph	Slip test/Library/Sports	
SATUR	Bio.&Res.Met	Bio.&Res.Met	Project Review		Project work		

Soci.Pre.Ph = Social and Preventive Pharmacy

Nano Tech = Nano Technology

P'Jurisprudence = Pharmaceutical Jurisprudence

Bio.&Res.Met = Biostatistics and Research Methodology

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M.PHARMACY I YEAR I SEM -PHARMACEUTICS BRANCH

2023-24

WEEK	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.00	1.00-4.00		
MON	Audit-I	Appl.Bio.Ph&P’Kin	--	L	Mod.Pharmac-I	SEMINARS	
TUE	Audit-I	Sta.Dru& Dos.Form	--	U	Mod.Pharmac-I	Drug.Reg.Aff.	--
WED	Res.Met&IPR	Appl.Bio.Ph&P’Kin	Drug.Reg.Aff.	N	SDDF	SEMINARS	
THUR	Modern Pharmaceutics -I Lab			C	Modern Pharmaceutics -I Lab		
FRI	Applied BioPharm &Pharmacokinetics Lab			H	Applied BioPharm &Pharmacokinetics Lab		
SAT	Mod.Pharmac-I	Appl.Bio.Ph&P’Kin	Drug.Reg.Aff.		Res.Met&IPR	SDDF	--

Mod.Pharmac-I = Modern Pharmaceutics-I

Appl.Bio.Ph&P'Kin =Applied Biopharmaceutics and Pharmacokinetics

Drug.Reg.Aff.= Drug Regulatory affairs

Res.Met&IPR = Research methodology and IPR

SDDF= Stability of Drugs and Dosage forms

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M.PHARMACY I YEAR I SEM -PHARMACEUTICAL ANALYSIS BRANCH

2023-24

WEEK	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.00	1.00-4.00		
MON	Audit-I	Mod.Pha.Ana Tech	Drug.Reg.Aff.	L	Pharm&Food Anal	RMIPR	--
TUE	Audit-I	Mod.Pha.Ana Tech	Drug.Reg.Aff.	U	SDDF	SEMINARS	
WED	Pharm&Food Anal	Mod.Pha.Ana Tech	RMIPR	N	SDDF	SEMINARS	
THUR	Moder.Pharm.Analytical Techniques Lab			C	Moder.Pharm.Analytical Techniques Lab		
FRI	Pharma.&Food Analysis Lab			H	Pharma.&Food Analysis Lab		
SAT	Pharm&Food Anal	Mod.Pha.Ana Tech	--		SDDF	Drug.Reg.Aff.	--

Mod.Pha.Ana Tech= Modern Pharmaceutical.Analytical Techniques

Pharm&Food Anal= Pharmaceutical Food Analysis

Drug.Reg.Aff.= Drug Regulatory affairs

RMIPR= Research Methodology& IPR

SDDF=Stability of Drugs And Dosage Forms


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M.PHARMACY I YEAR II SEM -PHARMACEUTICS BRANCH

2023-24

WEEK	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.00	1.00-4.00		
MON	Audit-II	ADDS	--	L	Mod.Pharmac-II	SEMINARS	
TUE	Audit-II	IP	--	U	Mod.Pharmac-II	Nutraceuticals.	--
WED	--	ADDS	Nutraceuticals	N	IP	SEMINARS	
THUR	Modern Pharmaceutics -II Lab			C	Modern Pharmaceutics -II Lab		
FRI	ADDS Lab			H	ADDS Lab		
SAT	Mod.Pharmac-II	ADDS	Nutraceuticals		--	IP	--

ADDS = Advanced Drug Delivery Systems

IP = Industrial Pharmacy

Mod.Pharmac-II = Modern Pharmaceutics-II

Audit-II = Audit course -II


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M.PHARMACY I YEAR II SEM -PHARMACEUTICAL ANALYSIS BRANCH

2023-24

WEEK	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.00	1.00-4.00		
MON	Audit-II	AIA-I	PV	L	MBAT	RMIPR	--
TUE	Audit-I	AIA-I		U	AIA-II	SEMINARS	
WED	MBAT	AIA	--	N	AIA-II	SEMINARS	
THUR	Moder.Pharm.Analytical Techniques Lab			C	Moder.Pharm.Analytical Techniques Lab		
FRI	Pharma.&Food Analysis Lab			H	Pharma.& Food Analysis Lab		
SAT	MBAT	AIA-II	--		--	PV	--

AIA-I = ADVANCED INSTRUMENTAL ANALYSIS- I
 MBAT=MODERN BIO- ANALYTICAL TECHNIQUES
 AIA-II = ADVANCED INSTRUMENTAL ANALYSIS- II
 PV= PHARMACOVIGILANCE

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M.PHARMACY II YEAR I SEM -PHARMACEUTICS BRANCH

2023-24

WEEK	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.00	1.00-4.00
MON	PROJECT WORK			L	PROJECT WORK
TUE	PROJECT WORK		SU&TT	U	PROJECT WORK
WED	Cos.Sciences	PROJECT WORK		N	PROJECT WORK
THUR	PROJECT WORK		SU&TT	C	PROJECT WORK
FRI	SU&TT	Cos.Sciences	--	H	PROJECT WORK Review
SAT	PROJECT WORK		Cos.Sciences		PROJECT WORK Review

SU&TT = SCALE UP AND TECHNOLOGY TRANSFER

COS. SCIENCES = COSMETIC SCIENCES

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M.PHARMACY II YEAR I SEM -PHARMACEUTICAL ANALYSIS BRANCH

2023-24

WEEK	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.00	1.00-4.00
MON	PROJECT WORK			L	PROJECT WORK
TUE	PROJECT WORK		SU&TT	U	PROJECT WORK
WED	Cos.Sciences	PROJECT WORK		N	PROJECT WORK
THUR	PROJECT WORK		SU&TT	C	PROJECT WORK
FRI	SU&TT	Cos.Sciences	--	H	PROJECT WORK Review
SAT	PROJECT WORK		Cos.Sciences		PROJECT WORK Review

SU&TT = SCALE UP AND TECHNOLOGY TRANSFER

Cos.Sciences = COS. SCIENCES = COSMETIC SCIENCES


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24

B. Pharm. I YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork / Orientation programme	29.09.2023	
2	1 st Spell of Instructions (including Induction programme)	29.09.2023	08.12.2023 (10 Weeks)
3	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
4	First Mid Term Examinations	11.12.2023	16.12.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	21.12.2023	
6	2 nd Spell of Instructions	18.12.2023	17.02.2024 (9 Weeks)
7	Second Mid Term Examinations	19.02.2024	24.02.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	26.02.2024	02.03.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	28.02.2024	
10	End Semester Examinations	04.03.2024	19.03.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 101

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	21.03.2024	
2	1 st Spell of Instructions (including Summer Vacation)	21.03.2024	07.06.2024 (11 Weeks)
3	Summer Vacation	13.05.2024	25.05.2024 (2 Weeks)
4	First Mid Term Examinations	10.06.2024	15.06.2024 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	21.06.2024	
6	2 nd Spell of Instructions	18.06.2024	22.08.2024 (9 Weeks)
7	Second Mid Term Examinations	23.08.2024	30.08.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	31.08.2024	06.09.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	03.09.2024	
10	End Semester Examinations	09.09.2024	21.09.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 100


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24

B. Pharm II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	09.10.2023	
2	1 st Spell of Instructions (including Dussehra Recess	09.10.2023	16.12.2023 (10 Weeks)
	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
3	First Mid Term Examinations	18.12.2023	23.12.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	30.12.2023	
5	2 nd Spell of Instructions	27.12.2023	29.02.2024 (9 Weeks)
6	Second Mid Term Examinations	01.03.2024	07.03.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	11.03.2024	16.03.2024 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	13.03.2024	
9	End Semester Examinations	18.03.2024	30.03.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 101

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	02.04.2024	
2	1 st Spell of Instructions (including Summer Vacation)	02.04.2024	22.06.2024 (12 Weeks)
3	Summer Vacation	13.05.2024	25.05.2024 (2 Weeks)
4	First Mid Term Examinations	24.06.2024	29.06.2024 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	06.07.2024	
6	2 nd Spell of Instructions	01.07.2024	31.08.2024 (9 Weeks)
7	Second Mid Term Examinations	02.09.2024	06.09.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	09.09.2024	13.09.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	11.09.2024	
10	End Semester Examinations	17.09.2024	30.09.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 100


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24

B. Tech./B. Pharm. III YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	11.10.2023	
2	1 st Spell of Instructions (including Dussehra Recess)	11.10.2023	12.12.2023 (9 Weeks)
3	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
4	First Mid Term Examinations	13.12.2023	19.12.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	23.12.2023	
6	2 nd Spell of Instructions	20.12.2023	19.02.2024 (8 Weeks)
7	Second Mid Term Examinations	20.02.2024	24.02.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	26.02.2024	02.03.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	28.02.2024	
10	End Semester Examinations	04.03.2024	16.03.2024 (2 Weeks)

Note: No. of Working/ instructional days: 90

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	18.03.2024	
2	1 st Spell of Instructions	18.03.2024	10.05.2024 (8 Weeks)
3	Summer Vacation	13.05.2024	25.05.2024 (2 Weeks)
4	First Mid Term Examinations	27.05.2024	01.06.2024 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	06.06.2024	
6	2 nd Spell of Instructions (including Summer Vacation)	03.06.2024	03.08.2024 (9 Weeks)
7	Second Mid Term Examinations	05.08.2024	09.08.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	12.08.2024	17.08.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	14.08.2024	
10	End Semester Examinations	19.08.2024	31.08.2024 (2 Weeks)

Note: No. of Working/ instructional days: 90



REGISTRAR I/c.
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Revised ACADEMIC CALENDAR 2023-24

B. Tech./B. Pharm. IV YEAR I & II SEMESTERS

I SEM

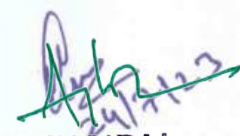
S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	31.07.2023	
2	1 st Spell of Instructions	31.07.2023	30.09.2023 (8 Weeks)
4	First Mid Term Examinations	03.10.2023	07.10.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	13.10.2023	
6	2 nd Spell of Instructions (including Dussehra Recess)	09.10.2023	08.12.2023 (9 Weeks)
7	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
8	Second Mid Term Examinations	11.12.2023	16.12.2023 (1 Week)
9	Preparation Holidays and Practical Examinations	18.12.2023	23.12.2023 (1 Week)
10	Submission of Second Mid Term Exam Marks to the University on or before	28.12.2023	
11	End Semester Examinations	27.12.2023	10.01.2024 (2 Weeks)

Note: No. of Working/instructional days: 92

II SEM

S.	Description	Duration	
		From	To
1	Commencement of II Semester classwork	12.01.2024	
2	1 st Spell of Instructions	12.01.2024	07.03.2024 (8 Weeks)
3	First Mid Term Examinations	11.03.2024	16.03.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	22.03.2024	
5	2 nd Spell of Instructions	18.03.2024	18.05.2024 (9 Weeks)
6	Second Mid Term Examinations	20.05.2024	25.05.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	27.05.2024	01.06.2024 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	01.06.2024	
9	End Semester Examinations	03.06.2024	15.06.2024 (2 Weeks)

Note: No. of Working/ instructional days: 90


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24

M. Pharm. I YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	09.10.2023	
2	1 st Spell of Instructions (including Dussehra Recess)	09.10.2023	16.12.2023 (10 Weeks)
3	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
4	First Mid Term Examinations	18.12.2023	23.12.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	29.12.2023	
6	2 nd Spell of Instructions	27.12.2023	29.02.2024 (9 Weeks)
7	Second Mid Term Examinations	01.03.2024	06.03.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	07.03.2024	14.03.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	13.03.2024	
10	End Semester Examinations	15.03.2024	30.03.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 100

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	01.04.2024	
2	1 st Spell of Instructions	02.04.2024	22.06.2024 (11 Weeks)
3	Summer Vacation	13.05.2024	25.05.2024 (2 Weeks)
4	First Mid Term Examinations	24.06.2024	29.06.2024 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	03.07.2024	
6	2 nd Spell of Instructions	01.07.2024	31.08.2024 (9 Weeks)
7	Second Mid Term Examinations	02.09.2024	06.09.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	09.09.2024	13.09.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	11.09.2024	
10	End Semester Examinations	17.09.2024	28.09.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 100


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
ACADEMIC CALENDAR 2023-24 (TENTATIVE)

M. Pharm. II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		
2	1 st Spell of Instructions (including Dussehra Recess)		11.09.2023
3	Dussehra Recess	11.09.2023	18.11.2023 (10 Weeks)
4	Preparation of Dissertation Work Proposals	23.10.2023	28.10.2023 (1 Week)
5	Dissertation Work Review-I: (Dissertation Submission & approval)	11.09.2023	07.10.2023 (4 Weeks)
		09.10.2023	13.10.2023 (1 Week)
6	Last date for submission of list of approved DRC - I students from the College to the University Examination branch.		18.10.2023
7	First Mid Term Examinations	20.11.2023	25.11.2023 (1 Week)
8	Submission of First Mid Term Exam Marks to the University on or before		30.11.2023
9	2 nd Spell of Instructions		
10	Second Mid Term Examinations	28.11.2023	02.02.2024 (9 Weeks)
11	Comprehensive Viva Voce	03.02.2024	09.02.2024 (1 Week)
12	Dissertation Work Review - II (Phase - I)	12.02.2024	17.02.2024 (1 Week)
13	Submission of Second Mid Term Exam Marks to the University on or before	18.02.2024	23.02.2024 (1 Week)
			15.02.2024
14	Last date for submission of Dissertation Work Review - II (Phase - I) Marks & Comprehensive Viva Voce marks to the University on or before		24.02.2024
15	End Semester Examinations	26.02.2024	07.03.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 100

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester (Dissertation Work Continuation) (16.10.2023 to 07.03.2024 - 20 weeks)		11.03.2024
2	** Dissertation Work Review - II (Phase-II)	11.03.2024	16.03.2024 (1 Week)
3	Last date for submission of Dissertation Work Review - II (Phase-II) Marks to the University on or before		22.03.2024
4	Dissertation Work Review - III (Phase - I) (18.03.2024 to 27.07.2024 - 19 Weeks)	29.07.2024	03.08.2024 (1 Week)
5	Last date for submission of Dissertation Work Review-III (Phase-I) Marks to the University on or before		09.08.2024
6	* Date of Eligibility of Thesis Submission		09.08.2024
7	Submission of Thesis and Dissertation Viva - Voce Examination (DRC -III Phase-I)		--
8	** Dissertation Work Review - III (Phase -II) (05.08.2024 to 04.11.2024 - 13 Weeks)	05.11.2024	09.11.2024 (1 Week)
9	Last date for submission of Dissertation Work Review -III (Phase-II) Marks		11.11.2024
10	Submission of Thesis and Dissertation Viva -Voce Examination (Phase-II) follows		--

* After completion of 40 weeks from the date of approval of Dissertation work proposal and subject to approval of Dissertation Work Review-III.

** Phase-II will be conducted only for unsuccessful students in Phase -I

Note: The unsuccessful students in Dissertation Work Review-II (Phase-II) shall appear for Dissertation Work Review-II at the time of Dissertation Work Review-III. These students shall reappear for Dissertation Work Review-III in the next academic year at the time of Dissertation Work Review -I only after completion of Dissertation Work Review -II, and then Dissertation Work Review -III follows.
The Dissertation Viva-Voce External examination Marks must be submitted on the day of completion to the University.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS OF B.PHARM. (REGULAR/FULL TIME) STUDENTS

WITH EFFECT FROM THE ACADEMIC YEAR 2017-18 (R-17)

1.0 Under-Graduate Degree Programme in Pharmacy

- 1.1 JNTUH offers a 4-year (8 semesters) **Bachelor of Pharmacy** (B.Pharm.) degree programme, under Choice Based Credit System (CBCS) at its affiliated colleges with effect from the academic year 2017-18.

2.0 Eligibility for admission

- 2.1 Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.
- 2.2 The medium of instructions for the entire under graduate programme in Pharmacy will be **English** only.

3.0 B.Pharm. Programme structure

- 3.1 A student after securing admission shall pursue the under graduate programme in B.Pharm. in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Pharm course.

A student shall register for all subjects for covering 196 credits and each student shall secure 196 credits (with CGPA ≥ 5) required for the completion of the under graduate programme and award of the B.Pharm. degree.

- 3.2 UGC/ AICTE specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year being divided into two semesters of 22 weeks (≥ 90 instructional days) each, each semester shall have - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester

System (CBSS) as indicated by UGC and curriculum / course structure as suggested by AICTE are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like environmental science, human values and professional ethics, gender sensitization lab and other student activities like NCC/NSO and NSS are identified as mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in Pharmacy (B.Pharm. degree programmes) are broadly classified as follows. The university has followed almost all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects.
2		PS - Pharmaceutical Sciences	Includes fundamental Pharmacy Subjects.
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management.
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline.
5	Elective Courses (ElC)	OE – Open Electives	Includes elective subjects related to inter-disciplinary areas of Pharmacy or other than Pharmacy
6	Core Courses	Project Work	B.Pharm. project or UG project or UG major project
7		Seminar	Seminar/ Colloquium based on core contents related to parent discipline.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)



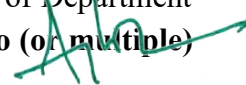
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4.0 Course registration

- 4.1 A 'faculty advisor or counselor' shall be assigned to a group of 15 students, who will advise student about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of semester end examinations of the 'preceding semester'**.
- 4.3 A student can apply for **on-line** registration, **only after** obtaining the '**written approval**' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.4 If the student submits ambiguous choices or multiple options or erroneous entries during **on-line** registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.
- 4.5 Subject/ course options exercised through **on-line** registration are final and **cannot** be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of the Department, with due notification and time-framed schedule, within the **first week** after the commencement of class-work for that semester.
- 4.6 **Open Electives:** Students have to choose one open elective (OE-I) in II year II semester, one (OE-II) in III year I semester, and one (OE-III) in III year II semester and one (OE-IV) in IV year II semester from the list of Open Electives.

5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 60.
- 5.2 A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 5.3 If more entries for registration of a subject come into picture, then the Head of Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.


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6.0 Attendance requirements:

- 6.1 Attendance in all classes (Lectures/Laboratories/Project Work) is compulsory. The minimum required attendance in aggregate of all the subjects/ courses including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75% (excluding attendance in mandatory courses environmental science, human values and professional ethics, gender sensitization Lab, NCC/NSO, NSS and Industrial Training) for that semester.
- 6.2 Condoning of shortage of attendance (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each semester shall be granted by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.
- 6.4 Shortage of attendance below 65% in aggregate shall in **no case be condoned**.
- 6.5 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the **same** set of elective subjects offered under that category.
- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

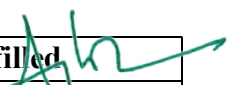
7.0 Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.6.

- 7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 35% marks (26 out of 75 marks) in the semester end examination, and a minimum of 40% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

7.2 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.


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2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 24 credits out of 48 credits i.e., 50% of credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	Second year first semester to second year second semester	Regular course of study of second year first semester.
4	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 86 credits out of 144 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

7.3 A student shall register for all subjects covering 196 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 196 credits, 'earn all 196 credits' by securing SGPA ≥ 5.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 5.0 to successfully complete the under graduate programme.

7.4 After securing the necessary 196 credits as specified for the successful completion of the entire under graduate programme, the student can avail exemption of two subjects up to 6 credits, that is, two open elective subjects for optional drop out from these 196 credits earned; resulting in 190 credits for under graduate programme performance evaluation, i.e., the performance of the student in these 190 credits shall alone be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme, which takes the SGPA of the IV year II semester into account), and shall be indicated in the

grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.

- 7.5 If a student registers for some more '**extra subjects**' other than those listed subjects totaling to 196 credits as specified in the course structure, the performances in those '**extra subjects**' (although evaluated and graded using the same procedure as that of the required 196 credits) will not be taken into account while calculating the SGPA and CGPA. For such '**extra subjects**' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6 A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure '**C**' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student **detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements.** The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.8 A student detained **due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits.** The academic regulations under which student has been readmitted shall be applicable to him.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.

8.0 Evaluation - Distribution and Weightage of marks

- 8.1 The performance of a student in every subject/course (including practicals and UG major project) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the essay paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for essay paper). The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The essay paper shall contain 4 full

questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-examination, and the second assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in internals/sessionals. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the university. The details of the question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is compulsory question which consists of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub-questions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

8.3 For practical subjects there shall be a continuous internal evaluation during the semester for 25 sessional marks and 75 semester end examination marks. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the university.

8.4 There shall be an Industrial Training in IV year I semester. For the Industrial Training, the student shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the IV year I semester and before the commencement of IV year II semester, the student shall submit satisfactory report of the work and certificate duly signed by the authority of training organization to the head of the institute.

8.5 Practice School: In the IV year I semester, every candidate shall undergo a practice school for a period of 150 hours evenly distributed throughout the semester. The student


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shall opt any one of the domains for practice school declared by the departmental committee from time to time. At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). The report shall be submitted to the departmental committee consisting of Head of the Institution, Head of the Department and a senior faculty member. The practice school report shall be evaluated for 100 marks and grade point shall be awarded.

- 8.6** Out of a total of 100 marks for the UG major project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva voce). The end semester examination of the project work shall be conducted by a committee consisting of external examiner, Head of the Department, supervisor of the project and a senior faculty member. The evaluation of UG major project shall be made at the end of IV year II semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of UG major project.
- 8.7** The laboratory marks and the sessional marks awarded by the college are subject to scrutiny and scaling by the university wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the university rules and produced before the committees of the university as and when asked for.
- 8.8** For mandatory courses environmental science, human values and professional ethics, gender sensitization lab and Industrial Training a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- 8.9** For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing $\geq 65\%$ attendance in such a course.
- 8.10** No marks or letter grade shall be allotted for all mandatory/non-credit courses.

9.0 Grading procedure

- 9.1** Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals and UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2** As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10

80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

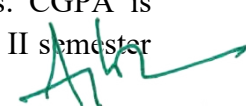
- 9.7 The student passes the subject/ course only when $GP \geq 5$ ('C' grade or above)
- 9.8 The semester grade point average (SGPA) is calculated by dividing the sum of credit points (ΣCP) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to **two** decimal places. SGPA is thus computed as

$$SGPA = \{ \sum_{i=1}^N C_i G_i \} / \{ \sum_{i=1}^N C_i \} \dots \text{For each semester,}$$

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that i^{th} subject.

- 9.9 The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in **all** registered courses in **all** semesters, and the total number of credits registered in **all** the semesters. CGPA is rounded off to **two** decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$CGPA = \{ \sum_{j=1}^M C_j G_j \} / \{ \sum_{j=1}^M C_j \} \dots \text{for all S semesters registered}$$


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(i.e., up to and inclusive of S semesters, $S \geq 2$),

where 'M' is the **total** no. of subjects the student has '**registered**' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the jth subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that jth subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	5	$4 \times 5 = 20$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	C	5	$3 \times 5 = 15$
	Total Credits = 21			Total Credit Points = 152

$$\text{SGPA} = 152/21 = 7.24$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	A+	9	$4 \times 9 = 36$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B+	7	$3 \times 7 = 21$
Course 6	3	A	8	$3 \times 8 = 24$
I Year II Semester				
Course 7	4	B+	7	$4 \times 7 = 28$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	8	$4 \times 8 = 32$
Course 10	3	B	6	$3 \times 6 = 18$
Course 11	3	C	5	$3 \times 5 = 15$
Course 12	3	A+	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 327

$$\text{CGPA} = 327/42 = 7.79$$


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9.10 For merit ranking or comparison purposes or any other listing, **only** the ‘**rounded off**’ values of the CGPAs will be used.

9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing **F** grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

10.1 A student shall be declared successful or ‘passed’ in a semester, if student secures a $GP \geq 5$ (‘C’ grade or above) in every subject/course in that semester (i.e. when student gets an $SGPA \geq 5.00$ at the end of that particular semester); and a student shall be declared successful or ‘passed’ in the entire under graduate programme, only when gets a $CGPA \geq 5.00$ for the award of the degree as required.

10.2 After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, and grade earned etc.), credits earned, SGPA, and CGPA.

11.0 Declaration of results

11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

$$\% \text{ of Marks} = (\text{final CGPA} - 0.5) \times 10$$

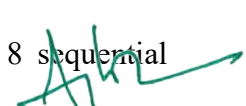
12.0 Award of degree

12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 196 credits (with $CGPA \geq 5.0$), within 8 academic years from the date of commencement of the first academic year, shall be declared to have ‘**qualified**’ for the award of the B.Pharm. degree.

12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

12.3 Students with final CGPA (at the end of the under graduate programme) ≥ 8.00 , and fulfilling the following conditions -

- (i) Should have passed all the subjects/courses in ‘**first appearance**’ within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should have secured a $CGPA \geq 8.00$, at the end of each of the 8 sequential semesters, starting from first year first semester onwards.


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- (iii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in '**first class with distinction**'.
- 12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but < 8.00 , shall be placed in '**first class**'.
- 12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.50 but < 6.50 , shall be placed in '**second class**'.
- 12.6 All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 5.50 , shall be placed in '**pass class**'.
- 12.7 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.
- 12.8 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of '**university rank**' and '**gold medal**'.
- 13.0 **Withholding of results**
- 13.1 If the student has not paid the fees to the university/ college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.

14.0 Transitory regulations

A. For students detained due to shortage of attendance:

1. A Student who has been detained in I year of R09/R13/R15/R16 Regulations due to lack of attendance, shall be permitted to join I year I Semester of R17 Regulations and he is required to complete the study of B. Pharmacy programme within the stipulated period of eight academic years from the date of first admission in I Year.
2. A student who has been detained in any semester of II, III and IV years of R09/R13/R15/R16 regulations for want of attendance, shall be permitted to join the corresponding semester of R17 regulations and is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the date of first admission in I Year. The R17 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.

See rule (C) for further Transitory Regulations.

B. For students detained due to shortage of credits:

3. A student of R09/R13/R15/R16 Regulations who has been detained due to lack of credits, shall be promoted to the next semester of R17 Regulations only after acquiring the required credits as per the corresponding regulations of his/her first admission. The student is required to complete the study of B. Pharmacy within the stipulated period of

eight academic years from the year of first admission. The R17 Academic Regulations are applicable to a student from the year of readmission onwards.

See rule (C) for further Transitory Regulations.

C. For readmitted students in R17 Regulations:

4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
5. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R17 Regulations. The performance evaluation of the student will be done after the exemption of two subjects if total credits acquired are ≤ 206 , three subjects if total credits acquired are > 206 (see R17 Regulations for exemption details).
6. If a student readmitted to R17 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R17 Regulations will be substituted by another subject to be suggested by the University.

Note: If a student readmitted to R17 Regulations, has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for further subjects in R17 Regulations, the College Principals concerned shall conduct remedial classes to cover those subjects/topics for the benefit of the students.

15.0 Student transfers

- 15.1 There shall be no branch transfers after the completion of admission process.
- 15.2 There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.
- 15.3 The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.
- 15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls to be provide one chance to write the CBT (internal marks) in the **failed subjects and/or subjects not studied** as per the clearance letter issued by the university.
- 15.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **failed subjects and/or subjects not studied**, to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.


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16.0 Scope

- 16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.
- 16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 16.3 The university may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the date notified by the university authorities.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

Academic Regulations for B.Pharm. (Lateral Entry Scheme) w.e.f the AY 2018-19

1. Eligibility for award of B. Pharm. Degree (LES)

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

2. The student shall register for 147 credits and secure 147 credits with CGPA ≥ 5 from II year to IV year B.Pharm. programme (LES) for the award of B.Pharm. degree. **Out of the 147 credits secured, the student can avail exemption up to 6 credits**, that is, two open elective subjects resulting in 141 credits for B.Pharm programme performance evaluation.
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Pharm.
4. The attendance requirements of B. Pharm. (Regular) shall be applicable to B.Pharm. (LES).

5. Promotion rule

S. No	Promotion	Conditions to be fulfilled
1	Second year first semester to second year second semester	Regular course of study of second year first semester.
2	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 29 credits out of 48 credits i.e., 60% of credits up

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		to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year first semester to third year second semester	Regular course of study of third year first semester.
4	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B. Pharm. 4-year degree course (Regular) will hold good for B. Pharm. (Lateral Entry Scheme).

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractice/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an

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	communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the university.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and UG major project) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.

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6.	Refuses to obey the orders of the chief superintendent/assistant – superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student of the college, who is not a student for the particular examination or	Student of the colleges expulsion from the examination hall and cancellation of the

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	any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and UG major project of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the university for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the students as per the above guidelines.
2. Punishment for institutions : (if the squad reports that the college is also involved in encouraging malpractices)
 - a. A show cause notice shall be issued to the college.
 - b. Impose a suitable fine on the college.
 - c. Shifting the examination centre from the college to another college for a specific period of not less than one year.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS OF B.PHARM. (REGULAR/FULL TIME) STUDENTS
WITH EFFECT FROM THE ACADEMIC YEAR 2022-23 (R-22)

1.0 Under-Graduate Degree Programme in Pharmacy

- 1.1** JNTUH offers a 4-year (8 semesters) **Bachelor of Pharmacy** (B.Pharm.) degree programme, under Choice Based Credit System (CBCS) at its affiliated colleges with effect from the academic year 2022-23.

2.0 Eligibility for admission

- 2.1** Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.

- 2.2** The medium of instructions for the entire under graduate programme in Pharmacy will be **English** only.

3.0 B.Pharm. Programme structure

- 3.1** A student after securing admission shall pursue the under graduate programme in B.Pharm. in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Pharm course.

A student shall register for all subjects for covering **209** credits and each student shall secure **209** credits (with CGPA $\geq$ 6) required for the completion of the under graduate programme and award of the B.Pharm. degree.

- 3.2** **UGC/ PCI** specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year being divided into two semesters of **23** weeks ($\geq$ **100** instructional days) each, each semester shall have - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) as indicated by UGC and curriculum/ course structure as suggested by PCI are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses.

- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like Environmental Sciences, Human Values and Professional Ethics, Gender Sensitization Laboratory and student activities like NCC/NSO and NSS are identified as mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in Pharmacy (B.Pharm. degree programmes) are broadly classified as follows. The university has followed almost all the guidelines issued by PCI/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects.
2		PS - Pharmaceutical Sciences	Includes fundamental Pharmacy Subjects.
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management.
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline.
5	Elective Courses (EtC)	OE – Open Electives	Includes elective subjects related to inter-disciplinary areas of Pharmacy or other than Pharmacy
6	Core Courses	Project Work	B.Pharm. project or UG project or UG major project
7		Seminar	Seminar/ Colloquium based on core contents related to parent discipline.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

4.0 Course registration

- 4.1 A 'faculty advisor or counselor' shall be assigned to a group of 15 students, who will advise student about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of semester end examinations of the 'preceding semester'**.
- 4.3 A student can apply for **on-line** registration, **only after** obtaining the '**written approval**' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.5 If the student submits ambiguous choices or multiple options or erroneous entries during **on-line** registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in

the course structure, only the first mentioned subject/ course in that category will be taken into consideration.

- 4.6 Subject/ course options exercised through **on-line** registration are final and **cannot** be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of the Department, with due notification and time-framed schedule, within the **first week** after the commencement of class-work for that semester.

- 4.7 **Open Electives:** Students have to choose one open elective (OE-I) in III year I semester, one (OE-II) in III year II semester, one (OE-III) in IV year I semester and one (OE-IV) in IV year II semester from the list of Open Electives.

5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 60.
- 5.2 A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 5.3 If more entries for registration of a subject come into picture, then the Head of Department shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.

6.0 Attendance requirements:

- 6.1 Attendance in all Courses (Lectures/Laboratories/Seminar/Project Work) is compulsory. The minimum required attendance in aggregate of all the subjects/ courses including the attendance of mid-term examination/ Laboratory etc. is **80%**. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than **80%** (excluding attendance in mandatory courses like Environmental Sciences, Human Values and Professional Ethics, Gender Sensitization Laboratory, NCC/NSO, NSS and Industrial Training) for that semester.
- 6.2 Condoning of shortage of attendance (between 70% and 80%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each semester shall be granted by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.
- 6.4 Shortage of attendance below 70% in aggregate shall in **no case be condoned**.
- 6.5 **Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester.** They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the **same** set of elective subjects offered under that category.

- 6.6** A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

7.0 Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no. 6.

- 7.1** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 40% marks (30 out of 75 marks) in the semester end examination, and a minimum of 50% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'D' grade or above in that subject/ course. For practicals/laboratory courses, a student should secure not less than 50% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'D' grade or above.
- 7.2** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Practice School (or) Industrial Training if the student secures not less than 50% marks (i.e. 50 out of 100 allotted marks) in each of them. The student is deemed to have failed, if he (i) does not submit a report on Practice School (or) Industrial Training, (ii) does not make a presentation of the same before the evaluation committee as per schedule, or (iii) secures less than 50% marks in Practice School (or) Industrial Training evaluations.
A student may reappear once for each of the above evaluations, when they are scheduled again; if the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.

7.3 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year to second year	Regular course of study of first year.
2	Second year to third year	(i) Regular course of study of second year. (ii) Must have passed all the subjects/ courses up to I Year II Semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year to fourth year	(i) Regular course of study of third year. (ii) Must have passed all the subjects/ courses up to II Year II Semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.

- 7.3** A student shall register for all subjects covering **209 credits** as specified and listed in the course structure, fulfills all the attendance and academic requirements for 209 credits, 'earn all 209 credits' by securing SGPA ≥ 6.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 6.0 to successfully complete the under graduate programme.
- 7.4** After securing the necessary 209 credits as specified for the successful completion of the entire under graduate programme, the student shall be eligible to get his CGPA and shall be indicated in the grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.

- 7.5** If a student registers for some more '**extra subjects**' other than those listed subjects totaling to **209 credits** as specified in the course structure, the performances in those '**extra subjects**' (although evaluated and graded using the same procedure as that of the required **209 credits**) will not be considered while calculating the SGPA and CGPA. For such '**extra subjects**' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6** A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure '**D**' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7** A student **detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements.** The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.8** A student detained **due to unfulfillment of promotion rules, shall be promoted to the next academic year only after fulfilling the promotion rules.** The academic regulations under which student has been readmitted shall be applicable to him.
- Note:** (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum '**D**' grade in all the subjects.
 (2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.

8.0 Evaluation - Distribution and Weightage of marks

- 8.1** The performance of a student in every theory subject/course will be evaluated for 100 marks, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2** In CIE, for theory subjects, during a semester, there shall be two mid-term examinations. Each Mid-Term examination consists of two parts i) **Part – A** for 10 marks, ii) **Part – B** for 10 marks with a total duration of 2 hours as follows:
1. Mid Term Examination for 20 marks:
 - a. Part - A: 10 Multiple Choice/ Objective Questions paper for 10 marks.
 - b. Part - B: Descriptive paper for 10 marks. Long Answer Questions for 5 marks (answer 1 out of 2). Short Answer Questions for 5 marks (answer 2 out of 3, each carries 2.5 marks).

While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus.

Five (5) marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The average of the two assignments shall be taken as the final marks for assignment (for 5 marks).

The average of marks secured in the Two Mid-term examinations, along with the average marks secured in the two assignments will be considered as the final marks secured by a student in the CIE.

8.3 The details of the end semester question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is compulsory question which consists of fifteen sub-questions. The first ten sub-questions are of Objective type/ Multiple Choice Questions, 2 from each unit and carry 1 mark each. The next five sub-questions are Short Answer Questions one from each unit and carry 3 marks each.
- Part-B consists of five Long Answer Questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

8.3 For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 15 marks and 35 marks for semester end examination. Out of the 15 marks for internal evaluation:

1. A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 5 marks
2. 5 marks for viva-voce in the course concerned.
3. Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 5 marks.

The Semester End Examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the cluster/other colleges which will be decided by the examination branch of the University.

In the Semester End Examination held for 3 hours, total 35 marks are divided and allocated as shown below:

1. 05 marks for Synopsis
2. 25 for experiment
3. 05 marks for viva-voce on concerned laboratory course

A student has to secure 25 marks (i.e. 50% out of the 50 marks) allotted for CIE and SEE taken together.

8.4 There shall be an Industrial Training in IV year I semester. For the Industrial Training, the student shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the IV year I semester and before the commencement of IV year II semester, the student shall submit satisfactory report of the work and certificate duly signed by the authority of training organization to the head of the institute.

8.5 Practice School: In the IV year I semester, every candidate shall undergo a practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the departmental committee from time to time. At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). The report shall be submitted to the departmental committee consisting of Head of the Institution, Head of the Department and a senior faculty member. The practice school report shall be evaluated for 100 marks and grade point shall be awarded.

- 8.6** All the students shall undertake a UG major project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book (Internal Evaluation):

Objective(s) of the work done	- 15 Marks
Methodology adopted	- 20 Marks
Results and Discussions	- 20 Marks
Conclusions and Outcomes	- 20 Marks
Total	- 75 Marks

Evaluation of Presentation (External Evaluation):

Presentation of work	- 25 Marks
Communication skills	- 20 Marks
Viva-Voce	- 30 Marks
Total	- 75 Marks

The **75 marks** assigned to the **dissertation book** shall be **same for all the students** in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria. A student has to secure 75 marks (i.e. 50% of the allotted 150 marks) to be declared successful in the project.

- 8.7** For mandatory courses Environmental Science, Human Values and Professional Ethics, Gender Sensitization Lab and Industrial Training a student has to secure 50 marks out of 100 marks (i.e. 50% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- 8.8** For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing $\geq 80\%$ attendance in such a course.
- 8.9** No marks or letter grade shall be allotted for all mandatory/non-credit courses.
- 9.0 Grading procedure**
- 9.1** Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals and UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2** As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/ PCI guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A (Excellent)	9
70 and less than 80%	B (Good)	8
60 and less than 70%	C (Fair)	7

50 and less than 60%	D (Average)	6
Below 50%	F (FAIL)	0
Absent	Ab	0

- 9.3** A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4** A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 9.5** A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6** A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

- 9.7** The student passes the subject/ course only when **GP ≥ 6 ('D' grade or above)**
- 9.8** The semester grade point average (SGPA) is calculated by dividing the sum of credit points (ΣCP) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to **two** decimal places. SGPA is thus computed as

$$\text{SGPA} = \{ \sum_{i=1}^N C_i G_i \} / \{ \sum_{i=1}^N C_i \} \dots \text{For each semester,}$$

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that i^{th} subject.

- 9.9** The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in **all** registered courses in **all** semesters, and the total number of credits registered in **all** the semesters. CGPA is rounded off to **two** decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$\text{CGPA} = \{ \sum_{j=1}^M C_j G_j \} / \{ \sum_{j=1}^M C_j \} \dots \text{for all S semesters registered}$$

(i.e., up to and inclusive of S semesters, $S \geq 2$),

where 'M' is the **total** no. of subjects the student has 'registered' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th} subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	9	$4 \times 9 = 36$
Course 2	4	O	10	$4 \times 10 = 40$

Course 3	4	C	7	$4 \times 7 = 28$
Course 4	3	B	8	$3 \times 8 = 24$
Course 5	3	A	10	$3 \times 10 = 30$
Course 6	3	C	7	$3 \times 7 = 21$
	Total Credits = 21			Total Credit Points = 179

$$\text{SGPA} = 179/21 = 8.52$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	9	$4 \times 9 = 36$
Course 2	4	A	9	$4 \times 9 = 36$
Course 3	4	B	8	$4 \times 8 = 32$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B	8	$3 \times 8 = 24$
Course 6	3	D	6	$3 \times 6 = 18$
I Year II Semester				
Course 7	4	B	8	$4 \times 8 = 32$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	9	$4 \times 9 = 36$
Course 10	3	D	6	$3 \times 6 = 18$
Course 11	3	C	7	$3 \times 7 = 21$
Course 12	3	A	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 350

$$\text{CGPA} = 350/42 = 8.33$$

9.10 For merit ranking or comparison purposes or any other listing, **only** the '**rounded off**' values of the CGPAs will be used.

9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing 'F' grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

10.1 A student shall be declared successful or 'passed' in a semester, if student secures a GP ≥ 6 ('D' grade or above) in every subject/course in that semester (i.e. when student gets an SGPA ≥ 6.00 at the end of that particular semester); and a student shall be declared successful or 'passed' in the entire under graduate programme, only when gets a CGPA ≥ 6.00 for the award of the degree as required.

10.2 After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will

show the details of the courses registered (course code, title, no. of credits, and grade earned etc.), credits earned, SGPA, and CGPA.

11.0 Declaration of results

11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

$$\% \text{ of Marks} = (\text{final CGPA} - 0.5) \times 10$$

12.0 Award of degree

12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 209 credits (with CGPA ≥ 6.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have '**qualified**' for the award of the B.Pharm. degree.

12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

12.3 Students with final CGPA (at the end of the under graduate programme) ≥ 7.50 , and fulfilling the following conditions -

- (i) Should have passed all the subjects/courses in '**first appearance**' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in '**first class with distinction**'.

12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.00 but < 7.50 , shall be placed in '**first class**'.

12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 6.00 , shall be placed in '**second class**'.

12.6 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.

12.7 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of '**university rank**' and '**gold medal**'.

13.0 Withholding of results

13.1 If the student has not paid the fees to the university/ college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.

14.0 Transitory regulations

A. For students detained due to shortage of attendance:

1. A Student who has been detained in I year of R15/R16/R17 Regulations due to lack of attendance, shall be permitted to join I year I Semester of R22 Regulations and he is required to complete the

study of B. Pharmacy programme within the stipulated period of eight academic years from the date of first admission in I Year.

2. A student who has been detained in any semester of II, III and IV years of R15/R16/R17 regulations for want of attendance, shall be permitted to join the corresponding semester of R22 regulations and is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the date of first admission in I Year. The R22 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.

See rule (C) for further Transitory Regulations.

B. For students detained due to shortage of credits:

3. A student of R15/R16/R17 Regulations who has been detained due to lack of credits, shall be promoted to the next semester of R22 Regulations only after acquiring the required credits as per the corresponding regulations of his/her first admission. The student is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the year of first admission. The R22 Academic Regulations are applicable to a student from the year of readmission onwards.

See rule (C) for further Transitory Regulations.

C. For readmitted students in R22 Regulations:

4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
5. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R22 Regulations.
6. If a student readmitted to R22 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R22 Regulations will be substituted by another subject to be suggested by the University.

Note: If a student readmitted to R22 Regulations, has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for further subjects in R22 Regulations, the College Principals concerned shall conduct remedial classes to cover those subjects/ topics for the benefit of the students.

15.0 Student transfers

15.1 There shall be no transfers from one college to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.

15.3 The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.

15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls to be provide one chance to write the CBT (internal marks) in the **failed subjects and/or subjects not studied** as per the clearance letter issued by the university.

15.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **failed subjects and/or subjects not studied**, to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.

16.0 Scope

16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.

16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.

16.3 The university may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the date notified by the university authorities.


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Act No. 30 of 2008)
Kukatpally, Hyderabad, Telangana (India).

Academic Regulations for B.Pharm. (Lateral Entry Scheme) w.e.f the AY 2023-24

1. Eligibility for award of B. Pharm. Degree (LES)

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

2. The student shall register for 153 credits and secure 153 credits with CGPA ≥ 6.00 from II year to IV year B.Pharm. programme (LES) for the award of B.Pharm. degree.
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Pharm.
4. The attendance requirements of B. Pharm. (Regular) shall be applicable to B.Pharm. (LES).

5. Promotion rule

S. No	Promotion	Conditions to be fulfilled
1	Second year to third year	Regular course of study of second year.
2	Third Year to fourth year	(i) Regular course of study of third year. (ii) Must have passed all the subjects/ courses up to II Year II Semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.

6. All the other regulations as applicable to B. Pharm. 4-year degree course (Regular) will hold good for B. Pharm. (Lateral Entry Scheme).

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractice/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.



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(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the university.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and UG major project) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the chief superintendent/assistant – superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be

	by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student of the college, who is not a student for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and UG major project of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall	

	be reported to the university for further action to award suitable punishment.	
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Malpractices identified by squad or special invigilators

1. Punishments to the students as per the above guidelines.
2. Punishment for institutions : (if the squad reports that the college is also involved in encouraging malpractices)
 - a. A show cause notice shall be issued to the college.
 - b. Impose a suitable fine on the college.
 - c. Shifting the examination centre from the college to another college for a specific period of not less than one year.

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(Established by Act No.30 of 2008)
Kukatpally, Hyderabad-500085, Telangana State (India)

Academic Regulations of M.Pharm. (Regular/Full Time) Programmes, 2022-23 (R22)
(CBCS)

(Effective for the students admitted into I year from the Academic Year 2022-23 and onwards)

1.0 Post-Graduate Degree Programmes in Pharmacy (PGP in Pharmacy) Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers **Two** Years (**Four** Semesters) full-time Master of Pharmacy (M.Pharm.) Degree programmes, under Choice Based Credit System (CBCS) at its constituent (non-autonomous) and affiliated colleges in different specializations.

2.0 Eligibility for Admissions

2.1 Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M.Pharm. programme.

2.2 Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GPAT Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (PGECE) for M.Pharm. programmes / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.

2.3 The medium of instructions for all PG Programmes will be **ENGLISH** only.

3.0 M.Pharm. Programme (PGP in Pharmacy) Structure

3.1 The M.Pharm. Programmes in Pharmacy of JNTUH are of Semester pattern, with **Four** Semesters consisting of **Two** academic years, each academic year having **Two** Semesters (First/Odd and Second/Even Semesters). Each Semester shall be of 23 weeks duration (inclusive of Examinations), with a minimum of **100** instructional days per Semester.

3.2 The student shall not take more than **four** academic years to fulfill all the academic requirements for the award of M.Pharm. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M.Pharm. programme.

3.3 **UGC/PCI** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:

3.3.1 Semester Scheme

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Design Subject', or 'Mini Project with Seminar', or 'Dissertation', as the case may be.

3.3.2 Credit Courses

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practice Periods).



Credits) structure based on the following general pattern:

- One credit for one hour/week/semester for theory/lecture (L) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses or tutorials (T)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations and mandatory courses (**Audit Courses**) will not carry any credits.

3.3.3 Subject Course Classification

All subjects/courses offered for the Post-Graduate Programme in Pharmacy (M.Pharm. Degree Programme) are broadly classified as follows. The University has followed in general the guidelines issued by UGC/PCI.

S.No.	Broad Course Classification	Course Group/ Category	Course Description
1	Core Courses (CoC)	PC- Professional Core	Includes subjects related to the Specialization in Pharmacy
		Dissertation	M.Pharm. Project or PG Project or Major Project
		Mini Project/ Seminar	Mini Project/Seminar based on core contents related to the Specialization in Pharmacy
2	Elective Courses (EiE)	PE - Professional Electives	Includes elective subjects related to the Specialization in Pharmacy
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the Specialization in Pharmacy
3	Mandatory Courses	--	Non-Credit Audit Courses

4.0 Course Registration

- 4.1** A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the Post Graduate Programme (PGP), its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2** The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.
- 4.3** A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4** If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.

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- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

5.0 **Attendance Requirements**

The programmes are offered based on a unit system with each subject being considered a unit. Attendance is calculated separately for each subject.

- 5.1 Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each theory subject (**also mandatory audit courses**) including the attendance of mid-term examination / Laboratory etc. is **80%**. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. ***This attendance should also be included in the fortnightly upload of attendance to the University. The attendance of mandatory audit courses should be uploaded separately to the University.*** A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than **80%**.
- 5.2 A student's Seminar report and presentation on Mini Project shall be eligible for evaluation, only if he ensures a minimum of **80%** of his attendance in Seminar presentation classes on Mini Project during that Semester.
- 5.3 **Condoning of shortage of attendance** (between 70% and 80%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject (Theory/Lab/Mini Project with Seminar) of a semester shall be granted by the College Academic Committee on genuine reasons.
- 5.4 A prescribed fee per subject shall be payable for condoning shortage of attendance after getting the approval of College Academic Committee for the same. The College Academic Committee shall maintain relevant documents along with the request from the student.
- 5.5 Shortage of Attendance below 70% in any subject shall in **no case be condoned**.
- 5.6 A Student, whose shortage of attendance is not condoned in any Subject(s) (Theory/Lab/Mini Project with Seminar) in any Semester, is considered as 'Detained in that Subject(s)', and is not eligible to write Semester End Examination(s) of such Subject(s), (in case of Mini Project with Seminar, his/her Mini Project with Seminar Report or Presentation are not eligible for evaluation) in that Semester; and he/she has to seek re-registration for those Subject(s) in subsequent Semesters, and attend the same as and when offered.
- 5.7 A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.
- 5.8 a) A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory(audit) course)** in first Year I semester for promotion to first Year II Semester.
- b) A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory(audit) course)** in first Year II semester for promotion to second Year I Semester.



6.0 Academic Requirements

The following academic requirements must be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the candidate in each semester shall be evaluated subject-wise, with a maximum of 100 marks per subject / course (theory / practical), based on Internal Evaluation and Semester End Examination.

- 6.1** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than **40%** of marks (**30** out of **75** marks) in the Semester End Examination, and a minimum of **50%** of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing '**D**' Grade or above in a subject.
- 6.2** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to **Mini Project**, if student secures not less than **50%** marks (i.e. 50 out of 100 allotted marks). The student would be treated as failed, if student (i) does not submit a report on Mini Project or does not make a presentation of the same before the evaluation committee as per schedule or (ii) secures less than 50% marks in Mini Project evaluation. The failed student may reappear once for the above evaluation, as and when they are scheduled again; if the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.
- 6.3** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to **seminar & assignment**, if student secures not less than 50% marks i.e. 50 out of 100 allotted marks. **50** marks are allotted for **Seminar**, **50** marks are allotted for **Assignment**, **Total 50+50 = 100 marks**. The student would be treated as failed, if student (i) does not submit a report on seminar/does not submit the assignments as prescribed or does not make a seminar presentation before the evaluation committee as per schedule or (ii) secures less than 50% (i.e. < **25** marks out of **50**) marks in each of the seminar & assignment evaluations. The student failed in seminar evaluation may reappear once for it, as and when it is scheduled again; The student failed in assignment evaluation may submit the assignments once again for the evaluation, as and when the assignment submission is scheduled again. If the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.
- 6.4** A student shall register for all subjects for total of **98** credits as specified and listed in the course structure for the chosen specialization, put in required the attendance and fulfill the academic requirements for securing **98** credits obtaining a minimum of '**D**' Grade or above in each subject, and all **98** credits securing Semester Grade Point Average (**SGPA**) ≥ 6.0 (in each semester) and final Cumulative Grade Point Average (**CGPA**) (i.e., CGPA at the end of PGP) ≥ 6.0 , and shall **pass all the mandatory audit courses** to complete the PGP successfully.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum '**D**' grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters

6.5 Marks and Letter Grades obtained in all those subjects covering the above specified **98** credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card /Marks Memo of second year second semester.

6.6 If a student registers for extra subject(s) (in the parent specialization or other specializations of



Pharmacy) other than those listed subjects totaling to **98** credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required **98** credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.4.

- 6.7** When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.
- 6.8** A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure '**D**' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for the purpose of evaluating his performance in that subject.
- 6.9** A Student who fails to earn **98** credits as per the specified course structure, and as indicated above, within **four** academic years from the date of commencement of his first year first semester, shall forfeit his seat in M.Pharm. programme and his admission **shall stand cancelled**.

7.0 Evaluation - Distribution and Weightage of Marks

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks. The performance of a student in every theory subject/course will be evaluated for 100 marks, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).

- 7.1** For theory subjects, 75 marks shall be awarded for the performance in the Semester End Examination and 25 marks shall be awarded for Continuous Internal Evaluation (CIE). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction. Each Mid-Term Examination shall be conducted for a total duration of 120 minutes with Part 'A' as compulsory consisting of 5 questions carrying 2 marks each (10 marks), and Part 'B' with 3 questions to be answered out of 5 questions, each question carrying 5 marks (15 marks). The details of the Question Paper pattern for Semester End Examination (Theory) are given below:
- The Semester End Examination will be conducted for 75 marks. It consists of two parts.
 - i) Part A for 25 marks, ii) Part B for 50 marks.
 - Part A is compulsory and consists of 5 questions, one from each unit and carrying 5 marks each.
 - Part B consists of 5 questions carrying 10 marks each. There will be two questions from each unit and only one should be answered.
- 7.2** For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 25 marks and 75 marks for semester end examination. Out of the 25 marks for internal evaluation:
1. A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 5 marks



2. 10 marks for viva-voce in the course concerned.
3. Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 10 marks.

The Semester End Examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the cluster/other colleges which will be decided by the examination branch of the University.

In the Semester End Examination held for 3 hours, total 75 marks are divided and allocated as shown below:

1. 10 marks for Synopsis
2. 50 marks for experiment
3. 15 marks for viva-voce on concerned laboratory course

A student has to secure 50 marks (i.e. 50% out of the 100 marks) allotted for CIE and SEE taken together.

7.3 There shall be Mini Project during I year II semester for **internal evaluation** of 100 marks. The Departmental Academic Committee (DAC) will review the progress of the mini project during the presentations and evaluate the same for 50 marks. Mini Project Viva Voce will be evaluated by the DAC for another 50 marks before the semester end examinations. Student shall carryout the mini project in consultation with the mini project supervisor which may include critically reviewing the literature, project implementation and submit it to the department in the form of a report and shall make an oral presentation before the DAC consisting of Head of the Department, Mini Project supervisor and two other senior faculty members of the department. The student has to secure a minimum of 50% of marks in i) mini project presentation and ii) mini project viva voce, to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.

7.4 There shall be **seminar & assignment** during I Year I Semester & I Year II Semester for **internal evaluation** of **100** marks. **50** marks are allotted for **Seminar**, **50** marks are allotted for **Assignment**, **Total 50+50 = 100 marks**.

For **Seminar**, the student in consultation with the seminar supervisor shall collect the information on a specialized topic, prepare a report, and submit it to the department. The Departmental Academic Committee (DAC) consisting of Head of the Department, seminar supervisor and two other senior faculty members of the department will evaluate the seminar report for 50 marks before the semester end examinations. The student has to secure a minimum of 25 marks (i.e. 50% out of the 50 marks) allotted to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.

For **Assignment**, the student is required to submit **one assignment from each theory subject/course** in I Year I Semester & I Year II Semester before the commencement of Semester End Examinations.

- In I Year I Semester there are 5 theory courses and 5 assignments are to be submitted in total, one assignment each to the concerned theory subject teacher. The concerned theory subject teacher will evaluate the assignment for 10 marks. So 5 assignments will be evaluated for 50 marks in total.
- In I Year II Semester there are 4 theory courses and 4 assignments are to be submitted in total, one assignment each to the concerned theory subject teacher. The concerned theory subject teacher will evaluate the assignment for 12.5 marks. So 4 assignments will be evaluated for 50 marks in total.

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The student has to secure a minimum of 25 marks (i.e. 50% out of the 50 marks) allotted to be declared successful. If he fails to obtain the minimum marks, he may submit the assignments once again for the evaluation, as and when the assignment submission is scheduled again.

- 7.5** There shall be comprehensive viva-voce during II year I semester for **external evaluation** of 100 marks. It shall be evaluated by the committee consisting of an external examiner, Head of the Department, and two other senior faculty members of the department before the semester end examinations. The external examiner shall be appointed from the cluster/other colleges which will be decided by the examination branch of the University. The student has to secure a minimum of 50 marks (i.e. 50% out of the 100 marks) allotted to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.
- 7.6** Every candidate shall be required to submit a dissertation on a topic approved by the Dissertation Review Committee.
- 7.7** A Dissertation Review Committee (DRC) shall be constituted with the Head of the Department as Chairperson, Dissertation Supervisor and one senior faculty member of the Department offering the M.Pharm. programme.
- 7.8** Registration of Dissertation Work: A candidate is permitted to register for the Dissertation Work after satisfying the attendance requirement in all the subjects, both theory and laboratory.
- 7.9** After satisfying 7.8, a candidate must present in Dissertation Work Review - I, in consultation with his Dissertation Supervisor, the title, objective and plan of action of his Dissertation work to the Dissertation Review Committee (DRC) for approval within four weeks from the commencement of Second year First Semester. Only after obtaining the approval of the DRC can the student initiate the Dissertation work.
- 7.10** If a candidate wishes to change his supervisor or topic of the Dissertation, he can do so with the approval of the DRC. However, the DRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of Dissertation proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- 7.11** A candidate shall submit his Dissertation progress report in two stages at least with a gap of **three** months between them.
- 7.12** The work on the Dissertation shall be initiated at the beginning of the II year and the duration of the Dissertation is two semesters. A candidate is permitted to submit Dissertation Thesis only after successful completion of all theory and practical courses with the approval of DRC not earlier than 40 weeks from the date of approval of the Dissertation work. For the approval of DRC the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the DRC.
- 7.13** The Dissertation Work Review - II in II Year I Sem. carries internal marks of 100. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate the work for the other 50 marks. The Supervisor and DRC will examine the Problem Definition, Objectives, Scope of Work, Methodology Adopted, Literature Survey in the same domain and progress of the Dissertation Work. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - II. If he fails to obtain the minimum required marks, he has to reappear for Dissertation Work Review - II as and when conducted.



- 7.14** The Dissertation Work Review - III in II Year II Sem. carries 100 internal marks. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate it for the other 50 marks. The DRC will examine the overall progress of the Dissertation Work and decide whether or not the Dissertation is eligible for final submission. The evaluation shall be done as per the criteria given below:

Evaluation of Dissertation Book (Internal Evaluation):

Objective(s) of the work done	- 10 Marks
Methodology adopted	- 30 Marks
Results and Discussions	- 50 Marks
Conclusions and Outcomes	- 10 Marks
Total	- 100 Marks

A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - III. If he fails to obtain the required minimum marks, he has to reappear for Dissertation Work Review - III as and when conducted.

- 7.15** For Dissertation Evaluation (Viva Voce) in II Year II Sem. there are external marks of 100 and it is evaluated by the external examiner. The evaluation shall be done as per the criteria given below:

Evaluation of Presentation (External Evaluation):

Presentation of work	- 40 Marks
Communication skills	- 20 Marks
Viva-Voce	- 40 Marks
Total	- 100 Marks

The candidate has to secure a minimum of 50% marks in Dissertation Evaluation (Viva-Voce) examination. If he fails to obtain the required minimum marks, he has to reappear for the same as and when conducted.

- 7.16** Dissertation Work Reviews - II and III shall be conducted in phase I (Regular) and Phase II (Supplementary). Phase II will be conducted only for unsuccessful students in Phase I. The unsuccessful students in Dissertation Work Review - II (Phase II) shall reappear for it at the time of Dissertation Work Review - III (Phase I). These students shall reappear for Dissertation Work Review - III in the next academic year at the time of Dissertation Work Review - II only after completion of Dissertation Work Review - II, and then Dissertation Work Review - III follows. The unsuccessful students in Dissertation Work Review - III (Phase II) shall reappear for Dissertation Work Review - III in the next academic year only at the time of Dissertation Work Review - II (Phase I).
- 7.17** After approval from the DRC, a soft copy of the thesis should be submitted for ANTI-PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than **30%**. If the similarity index has more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to TWO. The candidate has to register for the Dissertation work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.
- 7.18** Three copies of the Dissertation Thesis certified by the supervisor shall be submitted to the College/School/Institute, after submission of a research paper related to the Dissertation work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.

- 7.19** The thesis shall be adjudicated by an external examiner selected by the University. For this, the

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Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.

- 7.20** If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Dissertation Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.
- 7.21** If the report of the examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Dissertation Viva-Voce examination. The Dissertation Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.22** If he fails to fulfill the requirements as specified in 7.21, he will reappear for the Dissertation Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his Dissertation Work by the board within a specified time period (within **four** years from the date of commencement of his first year first semester).
- 7.23** The Dissertation Viva-Voce External examination marks must be submitted to the University on the day of the examination.
- 7.24** For mandatory audit courses, a student has to secure 50 marks out of 100 marks (i.e. 50% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.
- 7.25** No marks or letter grades shall be allotted for mandatory audit courses. Only Pass/Fail shall be indicated in Grade Card.

8.0 Re-Admission/Re-Registration

8.1 Re-Admission for Discontinued Student

A student, who has discontinued the M.Pharm. degree programme due to any reason whatsoever, may be considered for '**readmission**' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.7.

- 8.2** If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2
- 8.3** ***A candidate shall be given only one-time chance to re-register and attend the classes for a maximum of two subjects in a semester***, if the internal marks secured by a candidate are less than 40% and failed in those subjects but fulfilled the attendance requirement. A candidate must re-register for failed subjects within four weeks of commencement of the class work and secure the required



minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.

9.0 Examinations and Assessment - The Grading System

- 9.1 Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Mini Project with Seminar, Dissertation, etc., based on the percentage of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.
- 9.2 As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (PCI Guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (PCI Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A (Excellent)	9
70 and less than 80%	B (Good)	8
60 and less than 70%	C (Fair)	7
50 and less than 60%	D (Average)	6
Below 50%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.
- 9.4 If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.
- 9.5 A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.
- 9.6 In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.
- 9.7 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

Credit Points (CP) = Grade Point (GP) x Credits For a Course

- 9.8 The student passes the Subject/ Course only when he gets **GP ≥ 6 (D Grade or above)**.
- 9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points (ΣCP) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$SGPA = \left\{ \sum_{i=1}^N C_i G_i \right\} / \left\{ \sum_{i=1}^N C_i \right\} \dots \text{For each Semester,}$$

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where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department), C_i is the no. of Credits allotted to the i^{th} Subject, and G_i represents the Grade Points (GP) corresponding to the Letter Grade awarded for that i^{th} Subject.

- 9.10** The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$\text{CGPA} = \left\{ \sum_{j=1}^M C_j G_j \right\} / \left\{ \sum_{j=1}^M C_j \right\} \dots \text{for all } S \text{ Semesters registered}$$

(ie., upto and inclusive of S Semesters, $S \geq 2$),

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1st Semester onwards upto and inclusive of the Semester S (obviously $M > N$), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters), C_j is the no. of Credits allotted to the j^{th} Subject, and G_j represents the Grade Points (GP) corresponding to the Letter Grade awarded for that j^{th} Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	9	$4 \times 9 = 36$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	7	$4 \times 7 = 28$
Course 4	3	B	8	$3 \times 8 = 24$
Course 5	3	A	10	$3 \times 10 = 30$
Course 6	3	C	7	$3 \times 7 = 21$
	Total Credits = 21			Total Credit Points = 179

$$\text{SGPA} = 179/21 = 8.52$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	9	$4 \times 9 = 36$
Course 2	4	A	9	$4 \times 9 = 36$
Course 3	4	B	8	$4 \times 8 = 32$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B	8	$3 \times 8 = 24$



Course 6	3	D	6	$3 \times 6 = 18$
I Year II Semester				
Course 7	4	B	8	$4 \times 8 = 32$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	9	$4 \times 9 = 36$
Course 10	3	D	6	$3 \times 6 = 18$
Course 11	3	C	7	$3 \times 7 = 21$
Course 12	3	A	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 350

$$\text{CGPA} = 350/42 = 8.33$$

10.0 Award of Degree and Class

10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of **98 Credits** (with $\text{CGPA} \geq 6.0$), shall be declared to have 'QUALIFIED' for the award of the M.Pharm. Degree in the chosen specialization of Pharmacy that he was admitted into.

10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of M.Pharm. Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	≥ 7.50
First Class	$6.00 \leq \text{CGPA} < 7.49$
Second Class	$5.00 \leq \text{CGPA} < 5.99$

A student with final CGPA (at the end of the **PGP**) < 6.00 shall not be eligible for the Award of Degree.

11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

12.0 General

12.1 Credit: A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.

12.2 Credit Point: It is the product of grade point and number of credits for a course.

12.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".

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- 12.4** The academic regulation should be read as a whole for the purpose of any interpretation.
- 12.5** In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.
- 12.6** The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.

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**MALPRACTICES RULES****DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

S.No	Nature of Malpractices/Improper conduct	Punishment
	If the candidate:	
1.(a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject to the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination).	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. Incase of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject to the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year. The Hall Ticket of the candidate is to be cancelled and sent to the University.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate, who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the	Expulsion from the examination hall and cancellation of performance in that subject and



	question paper during the examination or answer book or additional sheet, during or after the examination.	all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in- charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	Incase of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already



		appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)
 - (i) A show cause notice shall be issued to the college.
 - (ii) Impose a suitable fine on the college.
 - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year


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KUKATPALLY - HYDERABAD – 500085

EXAMINATION BRANCH

I YEAR B.PHARMACY I-SEMESTER-R22 , R17, 16, R15, R13 REGULATION REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

T I M E T A B L E

TIME → AN:2.00 PM TO 5.00 PM

B.PHARMACY	Day & date	R22	R17	R16	R15	R13
	04-03-2024 Monday	Remedial Mathematics	Remedial Mathematics	Remedial Mathematics	Remedial Mathematics	Remedial Mathematics
		Remedial Biology	Remedial Biology	Remedial Biology	Remedial Biology	Remedial Biology
	06-03-2024 Wednesday	Human Anatomy and Physiology I	Human Anatomy and Physiology I	Dispensing and General Pharmacy	Dispensing and General Pharmacy	Dispensing and General Pharmacy
	09-03-2024 Saturday	Pharmaceutical Analysis I	Pharmaceutical Analysis I	Anatomy, Physiology and Health Education – I	Pharm Inorganic Chemistry	Pharm Inorganic Chemistry
	12-03-2024 Tuesday	Pharmaceutical Inorganic Chemistry	Pharmaceutics I	Pharmaceutical Organic Chemistry – I	Pharmaceutical Organic Chemistry – I	Pharmaceutical Organic Chemistry – I
	14-03-2024 Thursday	Pharmaceutics	Pharmaceutical Inorganic Chemistry-I	Professional Communication In English	Anatomy, Physiology and Health Education	Anatomy, Physiology and Health Education
	16-03-2024 Saturday	Communication Skills	Communication Skills	--	English	English

Sd/-

DATE: 18-02-2024

NOTE:

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(ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

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EXAMINATION BRANCH

I YEAR B.PHARMACY II-SEMESTER– R 22 , R17, 16 REGULATION REGULAR/ SUPPLEMENTARY EXAMINATIONS SEPTEMBER-2024

TIMETABLE

TIME→ FN: 10.00 AM TO 1.00 PM

B.PHARMACY	Day & date	R22	R17	R16
	09-09-2024 MONDAY	HUMAN ANATOMY AND PHYSIOLOGY II	HUMAN ANATOMY AND PHYSIOLOGY II	PHARMACEUTICAL INORGANIC CHEMISTRY
	11-09-2024 WEDNESDAY	PHARMACEUTICAL ORGANIC CHEMISTRY-I	PHARMACEUTICAL ORGANIC CHEMISTRY I	PHARMACEUTICAL ORGANIC CHEMISTRY - II
	13-09-2024 FRIDAY	BIOCHEMISTRY	BIOCHEMISTRY	PHYSICAL PHARMACY - I
	18-09-2024 WEDNESDAY	PATHOPHYSIOLOGY	PATHOPHYSIOLOGY	STATISTICAL METHODS AND COMPUTER APPLICATIONS
	20-09-2024 FRIDAY	COMPUTER APPLICATIONS IN PHARMACY	COMPUTER APPLICATIONS IN PHARMACY	ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION - II

DATE: 23-08-2024

NOTE:

- (i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.
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EXAMINATION BRANCH

II YEAR B.PHARM - I SEMESTER –R22, R17, R16, R15, R13 REGULATIONS- REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

TIME TABLE

TIME→ FN: 10:00 AM TO 1:00 PM

DATE& DAY	R22	R17	R16	R15	R13
18-03-2024 MONDAY	Pharmaceutical Organic Chemistry – II	----	---	---	---
20-03-2024 WEDNESDAY	Physical Pharmaceutics-I	Physical Pharmaceutics-I	Pharmacognosy I	Statistical Methods & Computer Applications	Statistical Methods & Computer Applications
22-03-2024 FRIDAY	Pharmaceutical Microbiology	Pharmaceutical Microbiology	Hospital and Community Pharmacy	Anatomy, Physiology &Pathophysiology	Anatomy Physiology &Patho physiology
26-03-2024 TUESDAY	Pharmaceutical Engineering	Pharmaceutical Engineering	Pharmaceutical Unit Operations – I	Pharmaceutical Unit Operations – I	Pharmaceutical Unit Operations – I
28-03-2024 THURSDAY	----	----	Pharmaceutical Analysis- I	Physical Pharmacy – I	Physical Pharmacy – I
30-03-2024 SATURDAY	---	Pharmaceutical Organic Chemistry – II	Pharmaceutical Organic Chemistry – III	Pharmaceutical Organic Chemistry-II	Pharmaceutical Organic Chemistry – II

DATE:05-03-2024

NOTE:(i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY

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E X A M I N A T I O N B R A N C H

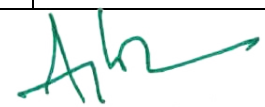
II YEAR B.PHARM-II SEMESTER – R22, R17, R16, R15, R13 REGULATION- REGULAR / SUPPLEMENTARY EXAMINATIONS SEPTEMBER-2024

T I M E T A B L E

TIME → FN: 10:00 AM TO 01:00 PM

COURSE	R22	R17	R16	R15	R13
17-09-2024 TUESDAY	Pharmaceutical Organic Chemistry-III	Pharmaceutical Organic Chemistry- III	PHARMACEUTICAL UNIT OPERATIONS – II	PHARMACEUTICAL UNIT OPERATIONS -II	PHARMACEUTICAL UNIT OPERATIONS-II
19-09-2024 THURSDAY	Pharmaceutical Jurisprudence	Medicinal Chemistry- I	BIOCHEMISTRY	PHARMACEUTICAL BIOCHEMISTRY	PHARMACEUTICAL BIOCHEMISTRY
21-09-2024 SATURDAY	Physical Pharmaceutics-II	Physical Pharmaceutics-II	PHARMACEUTICAL JURISPRUDENCE	PHARMACOGNOSY - I	PHARMACOGNOSY-I
23-09-2024 MONDAY	Pharmacology-I	Pharmacology-I	PHYSICAL PHARMACY-II	PHYSICAL PHARMACY- II	PHYSICAL PHARMACY-II
25-09-2024 WEDNESDAY	Pharmacognosy and Phytochemistry-I	Pharmacognosy and Phytochemistry-I	OPEN ELECTIVES	ENVIRONMENTAL STUDIES	ENVIRONMENTAL STUDIES
			INTELLECTUAL PROPERTY RIGHTS		
			HERBAL DRUGS TECHNOLOGY		
			GREEN CHEMISTRY		

DATE: 27-08-2024

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pEXAMINATION TIME TABLE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD-500 085

EXAMINATION BRANCH

III YEAR B.PHARM - I SEMESTER–R17, R16, R15, R13 REGULATIONS- REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

T I M E: FN: 10:00 AM TO 1:00 PM

DATE & DAY	R17	R16	R15	R13
04-03-2024 MONDAY	Medicinal Chemistry II	Pharmaceutical Microbiology	Pharmaceutical Microbiology	Pharmaceutical Microbiology
06-03-2024 WEDNESDAY	Industrial Pharmacy - I	Pharmaceutical Technology -I	Pharmacognosy – II	Pharmacognosy–II
09-03-2024 SATURDAY	Pharmacology II	Pharmacology – I	Pharmacology – I	Pharmacology-I
12-03-2024 TUESDAY	Pharmacognosy and Phytochemistry - II	Pharmacognosy -II	Pharmaceutical Technology – I	Pharmaceutical Technology–I
14-03-2024 THURSDAY	(Open Elective-I) Generic Product Development	(Open Elective-I) Drug Regulatory Affairs	Pharmaceutical Analysis-I	Pharmaceutical Analysis -I
	Green Chemistry	Active Pharmaceutical Ingredient Process Development		
	Cell and Molecular Biology			
	Cosmetic science	Entrepreneurship and Small Business Enterprises		

DATE:-18-02-2024


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**KUKATPALLY - HYDERABAD – 500 085****EXAMINATION BRANCH****TIME TABLE****III YEAR B.PHARM-II SEMESTER –R17, R16, R15, R13 REGULATION- SUPPLEMENTARY EXAMINATIONS AUGUST/SEPTEMBER-2024****TIME→FN: 10:00 AM TO 1:00 PM**

COURSE	R17	R16	R15	R13
19-08-2024 MONDAY	Medicinal Chemistry - III	Medicinal Chemistry - I	Medicinal Chemistry–I	Medicinal Chemistry–I
21-08-2024 WEDNESDAY	Herbal Drug Technology	Pharmaceutical Technology – II	Pharmaceutical Technology-II	Pharmaceutical Technology-II
23-08-2024 FRIDAY	Pharmacology - III	Pharmacology – II	Pharmacology II	Pharmacology II
27-08-2024 TUESDAY	Biopharmaceutics and Pharmacokinetics	Chemistry of Natural Products	Chemistry of natural products	Chemistry of Natural Products
29-08-2024 THURSDAY	Open Elective - III	Open Elective - III	Pharmaceutical Jurisprudence	Pharmaceutical Jurisprudence
	Pharmaceutical Quality Assurance	Generic Product Development		
	Pharmaceutical Biotechnology	Drug Design And Discovery		
	Bioinformatics	Screening Methods In Pharmacology		
	Screening Methods In Pharmacology			

DATE:01-08-2024**NOTE:**

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EXAMINATION BRANCH

IV YEAR B.PHARM - I SEMESTER –R17, R16, R15, R13 REGULATIONS- REGULAR/SUPPLEMENTARY EXAMINATIONS DECEMBER-2023/JANUARY-2024

TIME TABLE

TIME : FN: 10:00 AM TO 1:00 PM

DATE & DAY	R17	R16	R15	R13
27-12-2023 SATURDAY	Instrumental Methods of Analysis	Biopharmaceutics and Pharmacokinetics	Biopharmaceutics & Pharmacokinetics	Biopharmaceutics & Pharmacokinetics
29-12-2023 FRIDAY	Industrial Pharmacy-II	Pharmaceutical Analysis – II	Pharmacognosy III	Pharmacognosy III
02-01-2024 TUESDAY	Pharmacy Practice	Pharmacology - III	Pharmacology-III	Pharmacology-III
04-01-2024 THURSDAY	Novel Drug Delivery Systems	Medicinal Chemistry – II	Medicinal Chemistry – II	Medicinal Chemistry – II
06-01-2024 SATURDAY	Pharmaceutical Marketing	Pharmacy Administration	Pharmacy Administration	Pharmacy Administration
	Pharmaceutical Regulatory Science			
	Pharmacovigilance			
	Quality Control and Standardization of Herbals			

DATE: 06-12-2023

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EXAMINATION BRANCH

TIME TABLE

IV YEAR B.PHARM-II SEMESTER –R17, R16, R15, R13 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS JUNE/JULY-2024

TIME→FN: 10.00 AM TO 1.00 PM

course	R17	R16	R15	R13
03-06-2024 MONDAY	Biostatistics and Research Methodology	Novel Drug Delivery Systems	Novel Drug Delivery Systems and Regulatory Affairs	Novel Drug Delivery Systems and Regulatory Affairs
07-06-2024 FRIDAY	Social and Preventive Pharmacy	Clinical Pharmacy	Pharmaceutical Biotechnology	Pharmaceutical Biotechnology
14-06-2024 FRIDAY	Pharmaceutical Jurisprudence	Pharmaceutical Biotechnology	Pharmaceutical Analysis II	Pharmaceutical Analysis II
18-06-2024 TUESDAY	Elective -IV	Pharmacognosy – III	Human Values and Professional Ethics	Human Values and Professional Ethics
	Computer Aided Drug Design			
	Nano Technology			
	Experimental Pharmacology			
	Advanced Instrumentation Techniques			
20-06-2024 THURSDAY	-----	Nano Technology	Clinical Pharmacy Practice	Clinical Pharmacy Practice
		Pharmacoepidemiology, Pharmacoeconomics and pharmacovigilance		
		Medicinal Plant Biotechnology		

DATE:18-05-2024

NOTE:

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EXAMINATION BRANCH

I YEAR B.PHARMACY I-SEMESTER-R22 , R17, 16, R15, R13 REGULATION REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

T I M E T A B L E

TIME→ AN:2.00 PM TO 5.00 PM

B.PHARMACY	Day & date	R22	R17	R16	R15	R13
	04-03-2024 Monday	Remedial Mathematics	Remedial Mathematics	Remedial Mathematics	Remidial Mathematics	Remidal Mathematics
		Remedial Biology	Remedial Biology	Remedial Biology	Remidial Biology	Remidal Biology
	06-03-2024 Wednesday	Human Anatomy and Physiology I	Human Anatomy and Physiology I	Dispensing and General Pharmacy	Dispensing and General Pharmacy	Dispensing and General Pharmacy
	09-03-2024 saturday	Pharmaceutical Analysis I	Pharmaceutical Analysis I	Anatomy, Physiology and Health Education – I	Pharm Inorganic Chemistry	Pharm Inorganic Chemistry
	12-03-2024 Tuesday	Pharmaceutical Inorganic Chemistry	Pharmaceutics I	Pharmaceutical Organic Chemistry – I	Pharmaceutical Organic Chemistry – I	Pharmaceutical Organic Chemistry – I
	14-03-2024 Thursday	Pharmaceutics	Pharmaceutical Inorganic Chemistry-I	Professional Communication In English	Anatomy, Physiology and Health Education	Anatomy, Physiology and Health Education
	16-03-2024 Saturday	Communication Skills	Communication Skills	--	English	English

Sd/-

DATE: 18-02-2024

NOTE:

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CONTROLLER OF EXAMINATIONS


PRINCIPAL
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD – 500085

EXAMINATION BRANCH

I YEAR B.PHARMACY II-SEMESTER– R 22 , R17, 16 REGULATION REGULAR/ SUPPLEMENTARY EXAMINATIONS SEPTEMBER-2024

TIMETABLE

TIME → FN: 10.00 AM TO 1.00 PM

B.PHARMACY	Day & date	R22	R17	R16
	09-09-2024 MONDAY	HUMAN ANATOMY AND PHYSIOLOGY II	HUMAN ANATOMY AND PHYSIOLOGY II	PHARMACEUTICAL INORGANIC CHEMISTRY
	11-09-2024 WEDNESDAY	PHARMACEUTICAL ORGANIC CHEMISTRY-I	PHARMACEUTICAL ORGANIC CHEMISTRY I	PHARMACEUTICAL ORGANIC CHEMISTRY - II
	13-09-2024 FRIDAY	BIOCHEMISTRY	BIOCHEMISTRY	PHYSICAL PHARMACY - I
	18-09-2024 WEDNESDAY	PATHOPHYSIOLOGY	PATHOPHYSIOLOGY	STATISTICAL METHODS AND COMPUTER APPLICATIONS
	20-09-2024 FRIDAY	COMPUTER APPLICATIONS IN PHARMACY	COMPUTER APPLICATIONS IN PHARMACY	ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION - II

DATE: 23-08-2024

NOTE:

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EXAMINATION BRANCH

II YEAR B.PHARM - I SEMESTER –R22, R17, R16, R15, R13 REGULATIONS- REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

TIME TABLE

TIME → FN: 10:00 AM TO 1:00 PM

DATE& DAY	R22	R17	R16	R15	R13
18-03-2024 MONDAY	Pharmaceutical Organic Chemistry – II	----	---	---	---
20-03-2024 WEDNESDAY	Physical Pharmaceutics-I	Physical Pharmaceutics-I	Pharmacognosy I	Statistical Methods & Computer Applications	Statistical Methods & Computer Applications
22-03-2024 FRIDAY	Pharmaceutical Microbiology	Pharmaceutical Microbiology	Hospital and Community Pharmacy	Anatomy, Physiology & Pathophysiology	Anatomy Physiology & Patho physiology
26-03-2024 TUESDAY	Pharmaceutical Engineering	Pharmaceutical Engineering	Pharmaceutical Unit Operations – I	Pharmaceutical Unit Operations – I	Pharmaceutical Unit Operations – I
28-03-2024 THURSDAY	----	----	Pharmaceutical Analysis- I	Physical Pharmacy – I	Physical Pharmacy – I
30-03-2024 SATURDAY	---	Pharmaceutical Organic Chemistry – II	Pharmaceutical Organic Chemistry – III	Pharmaceutical Organic Chemistry-II	Pharmaceutical Organic Chemistry – II

DATE:05-03-2024

NOTE: (i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY
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EXAMINATION BRANCH

II YEAR B.PHARM-II SEMESTER – R22, R17, R16, R15, R13 REGULATION- REGULAR/ SUPPLEMENTARY EXAMINATIONS SEPTEMBER-2024

T I M E T A B L E

TIME → FN: 10:00 AM TO 01:00 PM

COURSE	R22	R17	R16	R15	R13
17-09-2024 TUESDAY	Pharmaceutical Organic Chemistry-III	Pharmaceutical Organic Chemistry-III	PHARMACEUTICAL UNIT OPERATIONS – II	PHARMACEUTICAL UNIT OPERATIONS -II	PHARMACEUTICAL UNIT OPERATIONS-II
19-09-2024 THURSDAY	Pharmaceutical Jurisprudence	Medicinal Chemistry-I	BIOCHEMISTRY	PHARMACEUTICAL BIOCHEMISTRY	PHARMACEUTICAL BIOCHEMISTRY
21-09-2024 SATURDAY	Physical Pharmaceutics-II	Physical Pharmaceutics-II	PHARMACEUTICAL JURISPRUDENCE	PHARMACOGNOSY - I	PHARMACOGNOSY-I
23-09-2024 MONDAY	Pharmacology-I	Pharmacology-I	PHYSICAL PHARMACY-II	PHYSICAL PHARMACY- II	PHYSICAL PHARMACY-II
25-09-2024 WEDNESDAY	Pharmacognosy and Phytochemistry-I	Pharmacognosy and Phytochemistry-I	OPEN ELECTIVES	ENVIRONMENTAL STUDIES	ENVIRONMENTAL STUDIES
			INTELLECTUAL PROPERTY RIGHTS		
			HERBAL DRUGS TECHNOLOGY		
			GREEN CHEMISTRY		

DATE: 27-08-2024

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EXAMINATION BRANCH

III YEAR B.PHARM - I SEMESTER-R17, R16, R15, R13 REGULATIONS- REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

T I M E: FN: 10:00 AM TO 1:00 PM

DATE & DAY	R17	R16	R15	R13
04-03-2024 MONDAY	Medicinal Chemistry II	Pharmaceutical Microbiology	Pharmaceutical Microbiology	Pharmaceutical Microbiology
06-03-2024 WEDNESDAY	Industrial Pharmacy - I	Pharmaceutical Technology -I	Pharmacognosy – II	Pharmacognosy–II
09-03-2024 SATURDAY	Pharmacology II	Pharmacology – I	Pharmacology – I	Pharmacology-I
12-03-2024 TUESDAY	Pharmacognosy and Phytochemistry - II	Pharmacognosy -II	Pharmaceutical Technology – I	Pharmaceutical Technology–I
14-03-2024 THURSDAY	(Open Elective-I) Generic Product Development	(Open Elective-I) Drug Regulatory Affairs	Pharmaceutical Analysis-I	Pharmaceutical Analysis -I
	Green Chemistry	Active Pharmaceutical Ingredient Process Development		
	Cell and Molecular Biology			
	Cosmetic science	Entrepreneurship and Small Business Enterprises		

DATE:-18-02-2024

NOTE:

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EXAMINATION BRANCH

TIME TABLE

III YEAR B.PHARM-II SEMESTER –R17, R16, R15, R13 REGULATION- SUPPLEMENTARY EXAMINATIONS AUGUST/SEPTEMBER-2024

TIME→FN: 10:00 AM TO 1:00 PM

COURSE	R17	R16	R15	R13
19-08-2024 MONDAY	Medicinal Chemistry - III	Medicinal Chemistry - I	Medicinal Chemistry-I	Medicinal Chemistry-I
21-08-2024 WEDNESDAY	Herbal Drug Technology	Pharmaceutical Technology – II	Pharmaceutical Technology-II	Pharmaceutical Technology-II
23-08-2024 FRIDAY	Pharmacology - III	Pharmacology – II	Pharmacology II	Pharmacology II
27-08-2024 TUESDAY	Biopharmaceutics and Pharmacokinetics	Chemistry of Natural Products	Chemistry of natural products	Chemistry of Natural Products
29-08-2024 THURSDAY	Open Elective - III	Open Elective - III	Pharmaceutical Jurisprudence	Pharmaceutical Jurisprudence
	Pharmaceutical Quality Assurance	Generic Product Development		
	Pharmaceutical Biotechnology	Drug Design And Discovery		
	Bioinformatics	Screening Methods In Pharmacology		
	Screening Methods In Pharmacology			

DATE:01-08-2024

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EXAMINATION BRANCH

IV YEAR B.PHARM - I SEMESTER –R17, R16, R15, R13 REGULATIONS- REGULAR/SUPPLEMENTARY EXAMINATIONS DECEMBER-2023/JANUARY-2024**T I M E T A B L E****T I M E : FN: 10:00 AM TO 1:00 PM**

DATE & DAY	R17	R16	R15	R13
27-12-2023 SATURDAY	Instrumental Methods of Analysis	Biopharmaceutics and Pharmacokinetics	Biopharmaceutics & Pharmacokinetics	Biopharmaceutics & Pharmacokinetics
29-12-2023 FRIDAY	Industrial Pharmacy-II	Pharmaceutical Analysis – II	Pharmacognosy III	Pharmacognosy III
02-01-2024 TUESDAY	Pharmacy Practice	Pharmacology - III	Pharmacology-III	Pharmacology-III
04-01-2024 THURSDAY	Novel Drug Delivery Systems	Medicinal Chemistry – II	Medicinal Chemistry – II	Medicinal Chemistry – II
06-01-2024 SATURDAY	Pharmaceutical Marketing	Pharmacy Administration	Pharmacy Administration	Pharmacy Administration
	Pharmaceutical Regulatory Science			
	Pharmacovigilance			
	Quality Control and Standardization of Herbals			

DATE: 06-12-2023


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EXAMINATION BRANCH

TIME TABLE

IV YEAR B.PHARM-II SEMESTER –R17, R16, R15, R13 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS JUNE/JULY-2024

TIME→FN: 10.00 AM TO 1.00 PM

course	R17	R16	R15	R13
03-06-2024 MONDAY	Biostatistics and Research Methodology	Novel Drug Delivery Systems	Novel Drug Delivery Systems and Regulatory Affairs	Novel Drug Delivery Systems and Regulatory Affairs
07-06-2024 FRIDAY	Social and Preventive Pharmacy	Clinical Pharmacy	Pharmaceutical Biotechnology	Pharmaceutical Biotechnology
14-06-2024 FRIDAY	Pharmaceutical Jurisprudence	Pharmaceutical Biotechnology	Pharmaceutical Analysis II	Pharmaceutical Analysis II
18-06-2024 TUESDAY	Elective -IV	Pharmacognosy – III	Human Values and Professional Ethics	Human Values and Professional Ethics
	Computer Aided Drug Design			
	Nano Technology			
	Experimental Pharmacology			
	Advanced Instrumentation Techniques			
20-06-2024 THURSDAY	-----	Nano Technology	Clinical Pharmacy Practice	Clinical Pharmacy Practice
		Pharmacoepidemiology, Pharmacoeconomics and pharmacovigilance		
		Medicinal Plant Biotechnology		

DATE:18-05-2024

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EXAMINATION BRANCH

M.PHARM. I YEAR -I SEMESTER –R22 REGULATION –REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

TIMETABLE

TIME : 02:00 PM TO 05:00 PM

COURSE	15-03-2024 FRIDAY	18-03-2024 MONDAY	20-03-2024 WEDNESDAY	22-03-2024 FRIDAY	26-03-2024 TUESDAY	28-03-2024 THURSDAY	30-03-2024 SATURDAY
PHARMACOLOGY-01		Advanced Pharmacology – I	Clinical Pharmacology and Pharmacotherapeutics	Elective-I	Elective-II	MC	Elective-I
				Principles of Drug Discovery	Animal cell cultures and applications	Research Methodology and IPR	Pharmacokinetics And Drug Metabolism
				Clinical Research and Pharmacovigilance	Molecular Biology		
					Principles of Toxicology		
PHARMACEUTICAL CHEMISTRY-02	Advanced Organic Chemistry-I	Advanced Medicinal Chemistry-I		Elective-I	Elective -I	MC	Elective-II
				Modern Pharmaceutical Analytical Techniques	Drug Regulatory Affairs	Research Methodology and IPR	Drug Discovery & Design
				Chemistry of Natural Products			Pharmaceutical Food Analysis
							Spectral Analysis
PHARMACEUTICS - 03	Elective -I	Modern Pharmaceutics-I	Applied Biopharmaceutics and Pharmacokinetics	Elective –II	Elective -I	MC	Elective -II
	Advanced Physical Pharmaceutics			Pharmaceutical Validation	Drug Regulatory Affairs	Research Methodology and IPR	Cosmetics and Cosmeceuticals
					Total Quality Management		Stability of Drugs and Dosage Forms
PHARMACOGNOSY -07	Phytochemistry	Elective -I	Advanced Pharmacognosy-I	Elective-I	Elective –I	MC	Elective -II
		Pharmaceutical Food Analysis		Modern Pharmaceutical Analytical Techniques	Drug Regulatory Affairs	Research Methodology and IPR	Industrial Pharmacognostical Technology
							Pharmaceutical Validation
							Cosmetics and Cosmeceuticals

DATE: 28-02-2024


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EXAMINATION BRANCH

M.PHARM. I YEAR -I SEMESTER –R22 REGULATION – REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

TIMETABLE

TIME : 02:00 PM TO 05:00 PM

COURSE	15-03-2024 FRIDAY	18-03-2024 MONDAY	20-03-2024 WEDNESDAY	22-03-2024 FRIDAY	26-03-2024 TUESDAY	28-03-2024 THURSDAY	30-03-2024 SATURDAY
INDUSTRIAL PHARMACY-08	Advanced Physical Pharmaceutics	Pharmaceutical Formulation Development	Elective -I	Elective -II	Elective –I	MC	Elective -II
			Applied Biopharmaceutics and Pharmacokinetics	Pharmaceutical Validation	Drug Regulatory Affairs	Research Methodology and IPR	Herbal Cosmetics Technology
					Pharmaceutical Management		Stability of Drugs and Dosage Forms
PHARMACEUTICAL TECHNOLOGY-09	Elective -I	Modern Pharmaceutics-I	Applied Biopharmaceutics and Pharmacokinetics	Elective -II	Elective –I	MC	Elective -II
	Advanced Physical Pharmaceutics			Pharmaceutical Validation	Drug Regulatory Affairs	Research Methodology and IPR	Cosmetics and Cosmeceuticals
					Total Quality Management		Stability of Drugs and Dosage Forms
PHARMACEUTICAL ANALYSIS -12	Elective-I	Pharmaceutical Food Analysis		Modern Pharmaceutical Analytical Techniques	Elective –I	MC	ELECTIVE-II
	Advanced Pharmaceutical Analysis				Drug Regulatory Affairs	Research Methodology and IPR	Cosmetics and Cosmeceuticals
					Phytochemistry		Stability of Drugs and Dosage forms
							Pharmaceutical Validation

DATE: 28-02-2024



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EXAMINATION BRANCH

M.PHARM. I YEAR -I SEMESTER –R22 REGULATION – REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

T I M E T A B L E

T I M E : 02:00 PM TO 05:00 PM

COURSE	15-03-2024 FRIDAY	18-03-2024 MONDAY	20-03-2024 WEDNESDAY	22-03-2024 FRIDAY	26-03-2024 TUESDAY	28-03-2024 THURSDAY	30-03-2024 SATURDAY
PHARMACEUTICAL REGULATORY AFFAIRS -13	Good regulatory practices	Drug Regulatory Affairs	Elective -I	Elective -I	Elective –II	MC	Elective -II
			Total Quality Management	Pharmaceutical Validation	Pharmaceutical Formulation Technology	Research Methodology and IPR	Stability of Drugs and Dosage forms
			Intellectual Property Rights				Documentation and regulatory writing
PHARMACEUTICAL QUALITY ASSURANCE -14	Elective -II	Elective -I	Pharmaceutical Quality control & quality assurance	Modern Pharmaceutical Analytical Techniques	Elective –I	MC	Elective -II
	Advanced Pharmaceutical Analysis	Quality management systems			Drug Regulatory Affairs	Research Methodology and IPR	Pharmaceutical Management
	Product Development and Technology Transfer	Pharmaceutica I food Analysis					
PHARMACY PRACTICE-15	Pharmacothera peutics-I	Clinical Pharmacy Practice	Elective -I	Elective -I	Elective -II	MC	
			Hospital and Community Pharmacy	Clinical Research and Pharmacovigilance	Drug Regulatory Affairs	Research Methodology and IPR	
				Clinical Toxicology			

DATE: 28-02-2024

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EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER –R22 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER -2024

TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCH	17-09-2024 TUESDAY	19-09-2024 THURSDAY	21-09-2024 SATURDAY	23-09-2024 MONDAY	25-09-2024 WEDNESDAY	27-09-2024 FRIDAY
PHARMACOLOGY-01	PHARMACOLOGICAL SCREENING METHODS AND TOXICOLOGY	ADVANCED PHARMACOLOGY II	E3	E4	E4	-----
			PHARMACOEPIDEMI OLOGY AND PHARMACOECONO MICS	PHARMACOKINETIC AND THERAPEUTIC DRUG MONITORING	PHARMACEUTICAL MANAGEMENT	
			QUALITY USE OF MEDICINES	NUTRACEUTICALS		
			ADVANCED DRUG DELIVERY SYSTEMS			
PHARMACEUTICAL CHEMISTRY-02	ADVANCED MEDICINAL CHEMISTRY II	ADVANCED ORGANIC CHEMISTRY II	E4	E3	E4	-----
			SCREENING METHODS IN PHARMACOLOGY	PHARMACEUTICAL PROCESS CHEMISTRY	HERBAL DRUG TECHNOLOGY	
			ADVANCED INSTRUMENTAL ANALYSIS	CLINICAL RESEARCH AND PHARMACOVIGILANCE		
				QUALITY CONTROL AND QUALITY ASSURANCE		
PHARMACEUTICS- 03	MODERN PHARMACEUTICS II	E3	ADVANCED DRUG DELIVERY SYSTEMS	E4	E3	E4
		HERBAL COSMETICS		NUTRACEUTICALS	PHARMACEUTICAL MANAGEMENT	
				CLINICAL RESEARCH AND PHARMACOVIGILANCE	INDUSTRIAL PHARMACY	

DATE: 23-08-2024


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EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER –R22 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER -2024

T I M E T A B L E

T I M E: 10:00 AM TO 01:00 PM

BRANCH	17-09-2024 TUESDAY	19-09-2024 THURSDAY	21-09-2024 SATURDAY	23-09-2024 MONDAY	25-09-2024 WEDNESDAY	27-09-2024 FRIDAY
PHARMACOGNOSY -07	ADVANCED PHARMACOGNOSY II	HERBAL COSMETICS	E3	E4	E3	-----
			PHARMACOEPIDEMIO LOGY AND PHARMACOECONOMI CS	MEDICINAL PLANT BIOTECHNOLOGY	PHARMACEUTICAL QUALITY CONTROL & QUALITY ASSURANCE	
				NUTRACEUTICALS		
				INDIAN SYSTEM OF MEDICINE		
INDUSTRIAL PHARMACY-08	PHARMACEUTIC AL PRODUCTION TECHNOLOGY	E4	ADVANCED DRUG DELIVERY SYSTEMS	E3	E4	E3
		CLINICAL RESEARCH AND PHARMACOVIGILA NCE		NUTRACEUTICALS	QUALITY BY DESIGN OF DOSAGE FORMS	NANO BASED DRUG DELIVERY SYSTEMS
				PHARMACEUTICAL INDUSTRIAL MANAGEMENT		
PHARMACEUTIC AL TECHNOLOGY - 09	MODERN PHARMACEUTIC S II	E3	ADVANCED DRUG DELIVERY SYSTEMS	E4	E3	E4
		HERBAL COSMETICS		NUTRACEUTICALS	PHARMACEUTICAL MANAGEMENT	NANO BASED DRUG DELIVERY SYSTEMS
				CLINICAL RESEARCH AND PHARMACOVIGILANCE		

DATE: 23-08-2024



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EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER –R22 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER -2024

TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCH	17-09-2024 TUESDAY	19-09-2024 THURSDAY	21-09-2024 SATURDAY	23-09-2024 MONDAY	25-09-2024 WEDNESDAY	27-09-2024 FRIDAY
PHARMACEUTI CAL ANALYSIS -12	ADVANCED INSTRUMENTAL ANALYSIS I	E3	E3	E4	PHARMACEUTICAL QUALITY CONTROL & QUALITY ASSURANCE	-----
		HERBAL COSMETICS	PHARMACOEPIDEM IOLOGY AND PHARMACOECONO MICS	ADVANCED INSTRUMENTAL ANALYSIS II		
		MODERN BIO- ANALYTICAL TECHNIQUES		NUTRACEUTICALS		
				CLINICAL RESEARCH AND PHARMACOVIGILANCE		
PHARMACEUTICA L REGULATORY AFFAIRS -13	REGULATORY ASPECTS OF MEDICAL DEVICES	REGULATORY ASPECTS OF HERBALS AND BIOLOGICALS	E4	E4	E3	E3
			ADVANCED DRUG DELIVERY SYSTEMS	NUTRACEUTICALS	PHARMACEUTICAL QUALITY CONTROL & QUALITY ASSURANCE	NANO BASED DRUG DELIVERY SYSTEMS
						CLINICAL RESEARCH AND PHARMACOVIGILANCE

DATE: 23-08-2024

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EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER –R22 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER -2024

TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCH	17-09-2024 TUESDAY	19-09-2024 THURSDAY	21-09-2024 SATURDAY	23-09-2024 MONDAY	25-09-2024 WEDNESDAY	27-09-2024 FRIDAY
PHARMACEUTICAL QUALITY ASSURANCE -14	PHARMACEUTICAL MANUFACTURING TECHNOLOGY	PHARMACEUTICAL VALIDATION	E3	E4	E4	
			HAZARDS AND SAFETY MANAGEMENT	AUDITS AND REGULATORY COMPLIANCE	HERBAL DRUG TECHNOLOGY	-----
			SPECTRAL ANALYSIS	STABILITY OF DRUGS AND DOSAGE FORMS		
			SCREENING METHODS IN PHARMACOLOGY			
PHARMACY PRACTICE-15	PHARMACOTHERAP EUTICS II	CLINICAL PHARMACOKINETIC S AND DRUG MONITORING	E3	E4		
			QUALITY USE OF MEDICINES	CELLULAR AND MOLECULAR PHARMACOLOGY	-----	-----
			BIOPHARMACEUTICS AND PHARMACOKINETICS	NUTRACEUTICALS		
			CLINICAL RESEARCH	PRINCIPLES OF DRUG DISCOVERY		

DATE: 23-08-2024

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NOTE:

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EXAMINATION BRANCH

M.PHARM. I YEAR -I SEMESTER –R22 REGULATION –REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

T I M E T A B L E

T I M E : 02:00 PM TO 05:00 PM

COURSE	15-03-2024 FRIDAY	18-03-2024 MONDAY	20-03-2024 WEDNESDAY	22-03-2024 FRIDAY	26-03-2024 TUESDAY	28-03-2024 THURSDAY	30-03-2024 SATURDAY
PHARMACOLOGY-01		Advanced Pharmacology – I	Clinical Pharmacology and Pharmacotherapeutics	Elective-I	Elective-II	MC	Elective-I
				Principles of Drug Discovery	Animal cell cultures and applications	Research Methodology and IPR	Pharmacokinetics And Drug Metabolism
				Clinical Research and Pharmacovigilance	Molecular Biology		
					Principles of Toxicology		
PHARMACEUTICAL CHEMISTRY-02	Advanced Organic Chemistry-I	Advanced Medicinal Chemistry-I		Elective-I	Elective -I	MC	Elective-II
				Modern Pharmaceutical Analytical Techniques	Drug Regulatory Affairs	Research Methodology and IPR	Drug Discovery & Design
				Chemistry of Natural Products			Pharmaceutical Food Analysis
							Spectral Analysis
PHARMACEUTICS - 03	Elective -I	Modern Pharmaceutics-I	Applied Biopharmaceutics and Pharmacokinetics	Elective –II	Elective -I	MC	Elective -II
	Advanced Physical Pharmaceutics			Pharmaceutical Validation	Drug Regulatory Affairs	Research Methodology and IPR	Cosmetics and Cosmeceuticals
				Total Quality Management	Stability of Drugs and Dosage Forms		
PHARMACOGNOSY -07	Phytochemistry	Elective -I	Advanced Pharmacognosy-I	Elective-I	Elective –I	MC	Elective -II
		Pharmaceutical Food Analysis		Modern Pharmaceutical Analytical Techniques	Drug Regulatory Affairs	Research Methodology and IPR	Industrial Pharmacognostical Technology
							Pharmaceutical Validation
							Cosmetics and Cosmeceuticals

DATE: 28-02-2024

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EXAMINATION BRANCH

M.PHARM. I YEAR -I SEMESTER –R22 REGULATION – REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

T I M E T A B L E

T I M E : 02:00 PM TO 05:00 PM

COURSE	15-03-2024 FRIDAY	18-03-2024 MONDAY	20-03-2024 WEDNESDAY	22-03-2024 FRIDAY	26-03-2024 TUESDAY	28-03-2024 THURSDAY	30-03-2024 SATURDAY
INDUSTRIAL PHARMACY-08	Advanced Physical Pharmaceutics	Pharmaceutical Formulation Development	Elective -I	Elective -II	Elective –I	MC	Elective -II
			Applied Biopharmaceutics and Pharmacokinetics	Pharmaceutical Validation	Drug Regulatory Affairs Pharmaceutical Management	Research Methodology and IPR	Herbal Cosmetics Technology Stability of Drugs and Dosage Forms
PHARMACEUTICAL TECHNOLOGY-09	Elective -I	Modern Pharmaceutics-I	Applied Biopharmaceutics and Pharmacokinetics	Elective -II	Elective –I	MC	Elective -II
	Advanced Physical Pharmaceutics			Pharmaceutical Validation	Drug Regulatory Affairs Total Quality Management	Research Methodology and IPR	Cosmetics and Cosmeceuticals Stability of Drugs and Dosage Forms
PHARMACEUTICAL ANALYSIS -12	Elective-I	Pharmaceutical Food Analysis		Modern Pharmaceutical Analytical Techniques	Elective –I	MC	ELECTIVE-II
	Advanced Pharmaceutical Analysis				Drug Regulatory Affairs	Research Methodology and IPR	Cosmetics and Cosmeceuticals Stability of Drugs and Dosage forms
					Phytochemistry		Pharmaceutical Validation

DATE: 28-02-2024


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EXAMINATION BRANCH

M.PHARM. I YEAR -I SEMESTER –R22 REGULATION – REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2024

TIMETABLE

TIME : 02:00 PM TO 05:00 PM

COURSE	15-03-2024 FRIDAY	18-03-2024 MONDAY	20-03-2024 WEDNESDAY	22-03-2024 FRIDAY	26-03-2024 TUESDAY	28-03-2024 THURSDAY	30-03-2024 SATURDAY
PHARMACEUTICAL REGULATORY AFFAIRS -13	Good regulatory practices	Drug Regulatory Affairs	Elective -I	Elective -I	Elective –II	MC	Elective -II
			Total Quality Management	Pharmaceutical Validation	Pharmaceutical Formulation Technology	Research Methodology and IPR	Stability of Drugs and Dosage forms
			Intellectual Property Rights				Documentation and regulatory writing
PHARMACEUTICAL QUALITY ASSURANCE -14	Elective -II	Elective -I	Pharmaceutical Quality control & quality assurance	Modern Pharmaceutical Analytical Techniques	Elective –I	MC	Elective -II
	Advanced Pharmaceutical Analysis	Quality management systems			Drug Regulatory Affairs	Research Methodology and IPR	Pharmaceutical Management
	Product Development and Technology Transfer	Pharmaceutica I food Analysis					
PHARMACY PRACTICE-15	Pharmacothera peutics-I	Clinical Pharmacy Practice	Elective -I	Elective -I	Elective -II	MC	
			Hospital and Community Pharmacy	Clinical Research and Pharmacovigilance	Drug Regulatory Affairs	Research Methodology and IPR	
				Clinical Toxicology	Advances in Preclinical Evaluation		

DATE: 28-02-2024

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EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER –R22 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER -2024

TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCH	17-09-2024 TUESDAY	19-09-2024 THURSDAY	21-09-2024 SATURDAY	23-09-2024 MONDAY	25-09-2024 WEDNESDAY	27-09-2024 FRIDAY	
PHARMACOLOGY-01	PHARMACOLOGICAL SCREENING METHODS AND TOXICOLOGY	ADVANCED PHARMACOLOGY II	E3	E4	E4	-----	
			PHARMACOEPIDEMI OLOGY AND PHARMACOECONO MICS	PHARMACOKINETIC AND THERAPEUTIC DRUG MONITORING	PHARMACEUTICAL MANAGEMENT		
			QUALITY USE OF MEDICINES	NUTRACEUTICALS			
			ADVANCED DRUG DELIVERY SYSTEMS				
PHARMACEUTICAL CHEMISTRY-02	ADVANCED MEDICINAL CHEMISTRY II	ADVANCED ORGANIC CHEMISTRY II	E4	E3	E4	-----	
			SCREENING METHODS IN PHARMACOLOGY	PHARMACEUTICAL PROCESS CHEMISTRY	HERBAL DRUG TECHNOLOGY		
			ADVANCED INSTRUMENTAL ANALYSIS	CLINICAL RESEARCH AND PHARMACOVIGILANCE			
				QUALITY CONTROL AND QUALITY ASSURANCE			
PHARMACEUTICS- 03	MODERN PHARMACEUTICS II	E3	ADVANCED DRUG DELIVERY SYSTEMS	E4	E3	E4 NANO BASED DRUG DELIVERY SYSTEMS	
		HERBAL COSMETICS		NUTRACEUTICALS	PHARMACEUTICAL MANAGEMENT		
				CLINICAL RESEARCH AND PHARMACOVIGILANCE	INDUSTRIAL PHARMACY		

DATE: 23-08-2024


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M.PHARM. I YEAR -II SEMESTER –R22 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER -2024

T I M E T A B L E

T I M E: 10:00 AM TO 01:00 PM

BRANCH	17-09-2024 TUESDAY	19-09-2024 THURSDAY	21-09-2024 SATURDAY	23-09-2024 MONDAY	25-09-2024 WEDNESDAY	27-09-2024 FRIDAY
PHARMACOGNOSY -07	ADVANCED PHARMACOGNOSY II	HERBAL COSMETICS	E3	E4	E3	-----
			PHARMACOEPIDEMIO LOGY AND PHARMACOECONOMI CS	MEDICINAL PLANT BIOTECHNOLOGY	PHARMACEUTICAL QUALITY CONTROL & QUALITY ASSURANCE	
				NUTRACEUTICALS		
				INDIAN SYSTEM OF MEDICINE		
INDUSTRIAL PHARMACY-08	PHARMACEUTIC AL PRODUCTION TECHNOLOGY	E4	ADVANCED DRUG DELIVERY SYSTEMS	E3	E4	E3
		CLINICAL RESEARCH AND PHARMACOVIGILA NCE		NUTRACEUTICALS	QUALITY BY DESIGN OF DOSAGE FORMS	NANO BASED DRUG DELIVERY SYSTEMS
				PHARMACEUTICAL INDUSTRIAL MANAGEMENT		
PHARMACEUTIC AL TECHNOLOGY - 09	MODERN PHARMACEUTIC S II	E3	ADVANCED DRUG DELIVERY SYSTEMS	E4	E3	E4
		HERBAL COSMETICS		NUTRACEUTICALS	PHARMACEUTICAL MANAGEMENT	NANO BASED DRUG DELIVERY SYSTEMS
				CLINICAL RESEARCH AND PHARMACOVIGILANCE		

DATE: 23-08-2024

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EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER –R22 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER -2024

TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCH	17-09-2024 TUESDAY	19-09-2024 THURSDAY	21-09-2024 SATURDAY	23-09-2024 MONDAY	25-09-2024 WEDNESDAY	27-09-2024 FRIDAY
PHARMACEUTICAL ANALYSIS -12	ADVANCED INSTRUMENTAL ANALYSIS I	E3	E3	E4	PHARMACEUTICAL QUALITY CONTROL & QUALITY ASSURANCE	-----
		HERBAL COSMETICS	PHARMACOEPIDEMIOLOGY AND PHARMACOECONOMICS	ADVANCED INSTRUMENTAL ANALYSIS II		
		MODERN BIO-ANALYTICAL TECHNIQUES		NUTRACEUTICALS		
				CLINICAL RESEARCH AND PHARMACOVIGILANCE		
PHARMACEUTICAL REGULATORY AFFAIRS -13	REGULATORY ASPECTS OF MEDICAL DEVICES	REGULATORY ASPECTS OF HERBALS AND BIOLOGICALS	E4	E4	E3	E3
			ADVANCED DRUG DELIVERY SYSTEMS	NUTRACEUTICALS	PHARMACEUTICAL QUALITY CONTROL & QUALITY ASSURANCE	NANO BASED DRUG DELIVERY SYSTEMS
				CLINICAL RESEARCH AND PHARMACOVIGILANCE		REGULATORY ASPECTS OF FOOD AND NUTRACEUTICALS

DATE: 23-08-2024

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EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER –R22 REGULATION- REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER -2024

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TIME: 10:00 AM TO 01:00 PM

BRANCH	17-09-2024 TUESDAY	19-09-2024 THURSDAY	21-09-2024 SATURDAY	23-09-2024 MONDAY	25-09-2024 WEDNESDAY	27-09-2024 FRIDAY
PHARMACEUTICAL QUALITY ASSURANCE -14	PHARMACEUTICAL MANUFACTURING TECHNOLOGY	PHARMACEUTICAL VALIDATION	E3	E4	E4	
			HAZARDS AND SAFETY MANAGEMENT	AUDITS AND REGULATORY COMPLIANCE	HERBAL DRUG TECHNOLOGY	-----
			SPECTRAL ANALYSIS	STABILITY OF DRUGS AND DOSAGE FORMS		
			SCREENING METHODS IN PHARMACOLOGY			
PHARMACY PRACTICE-15	PHARMACOTHERAPY EUTICS II	CLINICAL PHARMACOKINETICS AND DRUG MONITORING	E3	E4		
			QUALITY USE OF MEDICINES	CELLULAR AND MOLECULAR PHARMACOLOGY	-----	-----
			BIOPHARMACEUTICS AND PHARMACOKINETICS	NUTRACEUTICALS		
			CLINICAL RESEARCH	PRINCIPLES OF DRUG DISCOVERY		

DATE: 23-08-2024

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Name :.....M. Venu.....

B. Pharm / M. Pharm [✓]M. pharmacy.... Year [✓]I / II sem.

Subject :..pharmaceutical..Quality control & Assurance

Hall Ticket No. :.....23VJIS1206.....



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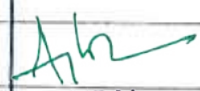
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YADADRI BHONGIR (DT)

Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	prepare and evaluate para-cetamol conventional tablets	1-6		<i>AT</i>
2.	preparation and Evaluation of Sodium Chloride Solution	7-8		
3.	preparation and Evaluation of oral rehydration solution	9-10		
4.	preparation and Evaluation of liquid paraffin Emulsion	11-13		<i>AT</i>
5.	preparation and Evaluation of Arachis oil Emulsion	14-15		
6.	Assay of paracetamol by U-V spectroscopy	16-17		
7.	Determination of Absorption maximum of paracetamol in Alkaline medium	18-		<i>AT</i>
8.	Assay of diclofenac sodium by U-V visible spectroscopy	19-20		




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Particulars of the Experiment Performed

[illegible]



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done during the year 2023 - 2024 by

Name : M. Venu

B. Pharm / M. Pharm ... M. pharmacy. Year ... 1st & 2nd sem

Subject : Advanced Instrumental Analysis

Hall Ticket No. : ... 23VJIS1206



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01	Flame photometry	1-2		
02	Estimation of sodium metal By using flame photometry	3-5		
03	Estimation of potassium using flame photometry	6-8		
04	Nephelometry and turbidimetry	9-10		
05	Estimation of sulphate ions By nephelometry	11-13		
06	Simultaneous Estimation of paracetamol And Ibuprofen Ibuprofen By UV-visible spectroscopy	14-18		
07	Simultaneous Estimation of paracetamol And Diclofenac Sodium By UV-Spectrophotometer	19-23		
08	preservatives	24-25		
09	Estimation of Ascorbic Acid	26-28		




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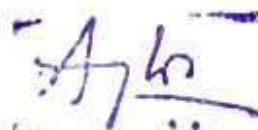
Name :T. Rahul.....

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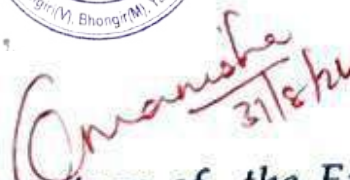
Subject :..Human..Anatomy...and..physiology..II.....



Hall Ticket No. :B3V11R0076.....


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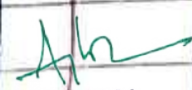

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
	Introduction of blood	1-4	6/4/24	No. 10/24
1)	Introduction of Haemocytometer	5-6	6/4/24	
2)	Enumeration of White Blood Cells [WBC]	7-9	20/4/24	
3)	Enumeration of Red blood cells [RBC]	10-11	20/4/24	
4)	Determination of Bleeding time	12-13	27/4/24	
5)	Determination of Clotting time	14-15	27/4/24	No. 10/24
6)	Estimation of Haemoglobin Content	16-17	1/6/24	
7)	Determination of blood group	18-21	15/6/24	
8)	Determination of Erythrocyte sedimentation rate [ESR]	22-24	15/6/24	
9)	Determination of heart rate and pulse rate	25-26	29/6/24	
10)	Recording of blood pressure	27-29	6/7/24	No. 10/24
11)	Determination of Tidal Volume and Vital Capacity	30-31	20/7/24	
12)	Study of family planning devices and pregnancy diagnosis test	32-38	31/8/24	
13)	Determination of total blood count by cell analysis	39-46	3/8/24	


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done during the year 20 23 -20 24 by

Name : Biron Nikhita

B. Pharm / M. Pharm B. pharm Year 2nd year 1st sem

Subject : Pharmaceutical microbiology

Hall Ticket No. : 22VJ1R0012



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Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1)	Introduction	1-3		
2)	study of Laboratory Equipments	4-10		
3)	sterilization of Glass wares	11		
4)	preparation of nutrient agar	12-13		
5)	Isolation of pure culture by streak Plate method	14-15		
6)	Culture transfer techniques	16-17 16-17		
7)	Simple staining	18-19 18-19		
8)	Gram staining	20-21 20-21		
9)	Acid-fast staining	22-23 22-23		
10)	motility determination by hanging drop method	24-25		
11)	microbial-Assay of penicillin (Cup plate method)	26-27		
12)	preservation of micro organism (salt and starch culture)	28-29		
13)	Bacteriological analysis of water	30 30		
14)	Biochemical test	31-32		
15)	mp-VP Test	33-34		
16)	citrate test	35-36		
17)	microbial Assay of Antibiotic (Dish plate method)	37-38		




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Name : S. Sujatha

B. Pharm / M. Pharm B-pharm Year 3rd year

Subject : Herbal drug Technology

Hall Ticket No. : 21VJIR0078



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	Primary phytochemical screening of drug crude	1-9	16/4/24	
2	Phytochemical screening of leaves	10	23/4/24	
3	Phytochemical screening of valves	11	23/4/24	
4	Evaluation of excipients from natural origin	12-14		
5	Evaluation of excipients from natural origin - starch	15-16	30/4/24	
6	Chemical test for Honey	17	30/4/24	
7	Chemical test for Benzoin	18	7/5/24	
8	" " " " " " " " " " " "	19-20	7/5/24	
9	Prep & evaluation of herbal Shampoos	21-23	28/5/24	Hy
10	Prep & evaluation of herbal lotion	24-26	4/6/24	
11	Prep & evaluation of herbal cream	27-29	11/6/24	
12	Prep & evaluation of herbal eye drops	30-35	18/6/24	Hy
13	" " " " " " " " " " " "	36-40	25/6/24	
14	" " " " " " " " " " " "	41-47	2/7/24	
15	Determination of Alkaloid content	48-	9/7/24	




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Name :T. Shravani.....

B. Pharm / M. PharmB. pharmacy.. Year1st year 2nd sem

Subject : Computer application in pharmacy

Hall Ticket No. :23VJ120274.....



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	Design a questionnaire using a word processing package of gather information about particular disease	1-2		
2)	Create HTML web page to show personal information	3-7		
3)	Re-trieve the information of drug and its adverse effects using online tools	8-10		
4)	Creating mailing labels using label wizard, generating label in MS Word.	11-12		
5	Create a database in ms Access to store the patient information with the required field using access	13-17		
6.	Design a form in ms Access to view add, delete and modify the patient record in the database	18-19		
7.	Generating Report and printing add the Report from patient database	20-21		
8.	Creating involve table using ms Access	22-27		
9.	Drug information storage	28-34		



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
	and Retrieval using ms Access			
10.	Creating and working with queries in ms Access	35-36		
11.	Exporting Tables, queries, forms and Reports to web Page.	37-38		
12.	Exporting Tables, queries, forms and Reports to XML pages.	39-40.		


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Name : R. Vaishnavi

✓
B. Pharm / M. Pharm IIIrd Year IInd - Sem...

Subject : Pharmacology- III



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Dose calculations in pharmacological Experiments	1-5		
2.	Anti-Allergic Activity by mast Cell Stabilization assay	6-7		
3.	Study of anti-ulcer activity of a drug using pylorus ligation (SHAY) method & NSAID'S induced ulcer method Model	8-10		
4.	Study of effect of Drugs on GIT	11-13		
5.	Effect of the agonist & antagonist on Guinea pig ileum	14-15		
6.	Estimation of serum biochemical parameters by using Semi-Auto analyser	16-17		
7.	Effect of Saline purgatives on frog intestine.	18		
8.	Insulin's hypoglycemic effect in Rabbit	19-20		
9.	Test for Pyrogens	21		
10.	To Determine LD50 Value of a given drug	22-24		
11.	Determination of acute skin irritation/ corrosion of a test substance.	25-27		




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
12.	Determination of ^{acute} eye irritation/corrosion of a Test Substance.	28-30		
13.	Calculation of pharmacokinetic parameters from a given data	31-32		
14.	To study biostatistics Method in experimental pharmacology (Student t Test, ANOVA)	33-35		
15.	To study biostatistics methods in experimental pharmacology	36-38		


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Name :....Salvexu....Shravani.....

B. Pharm / M. Pharm^{II}nd..... Year^Ist sem.....

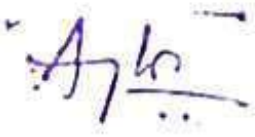
Subject :.....Physical.....Pharmaceutics.....



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01.	Determination of solubility of drugs at room temperature.	1-2	22-11-23	
02.	Determination of pKa of neutralisation Henderson Hassel batch equation.	3-4	12-12-23	
03.	Determination of partition co-efficient of benzoic acid in benzene and water.	5-7	12-12-23	
04.	Determination of partition co-efficient of iodine in carbontetrachloride and water	8-9	03-01-24	
05.	Determination of percentage composition of NaCl solution using phenol water system by CST method.	10-11	03-01-24	
06.	Determination of particle size and size distribution using sieving method	12-13	3-01-24	
07.	Determination of particle size and size distribution using microscopy method.	14-16	30-01-24	
08.	Determination of bulk density, true density and porosity	17-19	30-01-24	
09.	Determination of angle of repose and influence of lubricant on angle of repose	20-21	06-02-24	
10.	Determination of stability constant and donor acceptor ratio of PABA-caffeine complex by solubility method.	22-24	13-02-24	 PRINCIPAL UNITY COLLEGE OF PHARMACY RAIGIRI (V), BHONGIR (M), YADADRI BHONGIR (DT)
11.	Determination of stability constant and donor acceptor ratio of copper-glycine complex by pH titration method	25-27	13-02-24	





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Name :.....D. SHIVAJI.....

B. Pharm / M. PharmB. PHARM..... Year1st YEAR.....

Subject :.....COMMUNICATION SKILLS.....



Hall Ticket No. :.....17(23VJ1R0017).....

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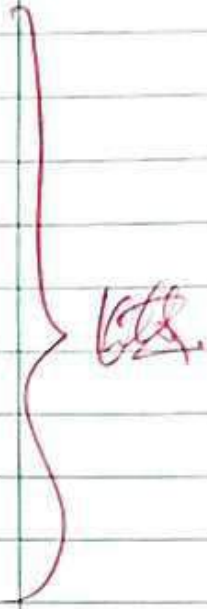
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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	communication skills	1 to 8		
2	Elements of communication	9 to 12		
3	Basic Listening	13 to 17		
4	Interview skills	18 to 20		
5	Group discussion	21 to 23		


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Name :.....MUSKAN.....

B. Pharm / M. Pharm1st year..... Year 1st Sem.

Subject :.....Human Anatomy and physiology.....



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	To study & demonstrate various part of compound microscope & function.		5-12-2022	
2.	microscopic study of epithelium & connective tissue.		12-12-23	
3.	Microscopic study of muscular & nervous tissue.		12-12-23	
4.	Identification of axial bone		19-12-23	
5.	Identification of Appendicular Bone.		26-12-23	
6.	To demonstrate the general neurological examination.		02-1-24	
7.	To demonstrate the function of olfactory nerve.		2-01-2024	
8.	To examine the different types of taste.		9-01-24	
9.	To demonstrate the visual activity.		23-1-24	
10.	Recording of body temp.		23-1-24	
11.	To demonstrate positive & negative feedback.		30-1-24	
12.	To demonstrate the reflex activity.		30-1-24	
13.	To study the nervous system.		5-01-24	



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Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
14.	using Specimen model. To study the Integumentary & Special senses.	13-1-24		<i>[Signature]</i> 22/1/24
15.	using Specimen. Skin organ.	20-2-24		

[Signature]

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Name : R. Keerthana

B. Pharm / M. Pharm B. Pharm Year 1st year 1st sem

Subject : Pharmaceutics



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
* 1.	Dispensing and general pharmacy Simple Syrup	1-9 10-		
2.	paracetamol periodic Syrup	11-15		
3.	piperazine Citrate Elixir IP	16-17		
4.	paracetamol paediatric Elixir BPC	18-19		
5.	Simple Linctus	20-21		
6.	Solutions	22-23		
6.	Strong Ammonium Acetate Solution J.P	24-25		
7.	Cresol with Soap Solution J.P	26-27		
8.	Calamine lotion J.P.	28-29		
9.	Magnesium Hydroxide Mixture B.P	30-32		
10.	Turpentine Liniment	33		
11.	liquid paraffin emulsion	34-35		
12.	ORS	36		
13.	Effervescent Granules	37-38		
14.	Dusting powder	39-40		
15.	Glycerol Gelatin Suppository	41-42		
16.	Soap Glycerin Suppository	43		
17.	Sulphur ointment	44-45		
18.	Non staining Iodine Ointment with methyl Salicylate	46-47		
19.	Bentonite Gel	48		
20.	Potassium chlorate Gargle	49		
21.	Chlorhexidine Mouthwash	50.		


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Name : R. Spandana

B. Pharm / M. Pharm ☒ Year 1st Sem

Subject : Pharmacognasy & phytochemistry - II

Hall Ticket No. : 21.VJI.RDD.69



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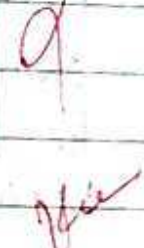
Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Introduction to microscope	1-11	17/10/2023	
2.	Systemic pharmacognostic study of cinchona.	12-13	31/10/2023	
3.	Systemic pharmacognostic study of cinnamon	14-19	7/11/2023	
4.	To study the morphological histological powder characteristic extraction and detection of Senna.	20-23	14/11/2023	
5.	To study the morphological histological powder characteristic extraction and detection of clove.	24-27	21/11/2023	
6.	To study the morphological histological powder characteristic extraction of Ephedra.	28-30	5/12/2023	12th
7.	To study the morphological histological powder characteristic extraction of fennel.	31-33	12/12/2023	
8.	To study the morphological histological characteristic of extraction and detection of Coriander.	34-36	19/12/2023	
9.	Isolation and Detect extraction of Saffron from tea dust.	37-38	21/1/2024	


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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
	b) Diosgenin from Dioscorea	39-40	21/1/2024	
	c) Atropine from Belladonna	41-42	9/1/2024	
	a) Sennasides from Senna.	43-45	9/1/2024	
10.	Separation of Sugar by paper chromatography.	46-48	23/1/2024	
11.	TLC of Herbal extraction	49-50	30/1/2024	
12.	Distillation of Volatile oils and detection of phytoconstituents by TLC.	51-53	06/2/2024	
13.	Analysis of crude drugs by their chemical tests	54	13/02/24	
	i) Benzoin	55	13/02/24	
	ii) Colophony	56	13/02/24	
	iii) Aloes	57	20/02/24	
	iv) Myrrh.	58	20/02/24	




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Name : Dr. Upender *.....*

B. Pharm / M. Pharm B. Pharmacy *.....* *Year* 1st year Ist Sem *.....*

Subject : Pharmaceutical In-organic chemistry *.....*

Hall Ticket No. : 23VJ1R0023 *.....*



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	LIMIT TEST FOR CHLORIDE	3-4	31/10/23	
2	LIMIT TEST FOR SULPHATES	5-6	07/11/23	
3	MODIFIED LIMIT TEST FOR CHLORIDES	7-8	07/11/23	
4.	MODIFIED LIMIT TEST FOR SULPHATES	9-11	14/11/23	
5.	LIMIT TEST FOR HEAVY METALS	12-14	28/11/23	
5.	LIMIT TEST FOR IRON	15-16	14/11/23	
7.	LIMIT TEST FOR LEAD	17-19	05/12/23	
8.	LIMIT TEST FOR ARSENIC	20-23	05/12/23	
9.	IDENTIFICATION TEST FOR MAGNESIUM HYDROXIDE	24-	12/12/23	
10.	IDENTIFICATION TEST FOR FERROUS SULPHATE	25-26	12/12/23	
11.	IDENTIFICATION TEST FOR CALCIUM BICARBONATE	27-28	19/12/23	
12.	IDENTIFICATION TEST CALCIUM GLUCONATE	29-31	19/12/23	
13.	IDENTIFICATION TEST FOR COPPER SULPHATE	32-33	20/12/23	
14.	SWELLING POWER IN BENTONITE	34-	20/12/23	
15.	ACID NEUTRALISING CAPACITY OF ALUMINIUM HYDROXIDE GEL	35	09/01/24	
16.	PRESENCE OF IODATE IN POTASSIUM IODINE	36-37	09/01/24	



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
17.	PREPARATION OF BORIC ACID	38	28/01/24	
18.	PREPARATION OF POTASSIUM	39	28/01/24	
19.	PREPARATION OF FERROUS SULPHATE	40	30/01/24	
20.	PREPARATION OF MAGNESIUM SULPHATE	41	30/01/24	
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Name :.....N. VIDYA.....

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B. Pharm / M. PharmB. pharmacy... Year :.....I.....

Subject :.....pharmaceutical Analysis.....



Hall Ticket No. :.....23VT1R0052.....

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
	General Introduction.	1-7	4.11.2023	G. Buddy
1	preparation and standization of 1ml of Sodium Hydroxide Solution	8-9	4.11.2023	
2	preparation and standization of Sulphuric acid.	10-11	18.11.2023	
3	preparation and standization of Sodium thiosulphate Solution	12-13	18.11.2023	G. Buddy
4	preparation and standization of potassium permanganate.	14-15	25.11.2023	
5	Assay of Ammonium chloride by acid titration	15-16	2.12.2023	
6	Assay of Ferrous Sulphate By cerimetry	17-18	16.12.2023	G. Buddy
7	Assay of Copper Sulphate by iodometry	19-20	16.12.2023	
8	Assay of Calcium Gluconate by complexometry	21-22	23.12.2023	



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Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
9.	Assay of Hydrogen peroxide by permanganometry	23-24	30.12.2023	G. Bhat
10.	Assay of Sodium Benzoate By Non-aqueous titration	25-26	6.1.2024	
11.	Assay of Sodium chloride by precipitation Titration.	27-28	20.1.2024	
12.	CONDUCTOMETRIC TITRATION OF STRONG ACID AGAINST STRONG Base	29-30	27.1.2024	
13.	POTENTIOMETRIC TITRATION OF A STRONG ACID WITH A STRONG BASE	31-32	0.3.2.2024	




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Name :.....B. Satish Kumar.....

B. Pharm / M. PharmB. pharmacy..... Year2nd.....

SubjectIndustrial pharmacy.....

Hall Ticket No. :.....21051R0015.....



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Pre formulation study of the paracetamol drug.	1-5	28/11/23	
2.	preparation of paracetamol tablets.	6-7	05/12/23	
3.	Evaluation of paracetamol tablets.	8-9	05/12/23	
4.	Preparation of Aspirin tablets.	10-11	12/12/23	
5.	Evaluation of Aspirin tabs	12-13	12/12/23	
6.	Coating of tablets.	14-15	19/12/23	
7.	Formulation of Film Coated tablets of paracetamol.	16-17	19/12/23	
8.	Formulation of Enteric Coated tablets of omeprazole.	18-19	19/12/23	
9.	preparation and evaluation of hard gelatin capsules of telmisartan hydrochloride.	20-21	26/12/23	


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Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
10.	preparation of Calcium gluconate injection.	22-23	01/12/24	
11.	preparation of Ascorbic Acid . Injection	24	01/12/24	
12.	preparation of paracetamol Syrup.	25-26	9/11/24	
13.	preparation of Atropine eye drops	27	9/11/24	
14.	preparation of cold cream	28-29	28/11/24	
15.	preparation of Vanishing cream 30-31	23	11/12/24	
16.	Evaluation of glass Containers 32-34	30/11/24		




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Name : V. Navaneetha

B. Pharm / M. Pharm B-pharm Year IVth - I

Subject Instrumental Methods of Analysis

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S. Arun

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1)	Introduction of Spectroscopy	1-2	1/8/23	S. Anna
2)	Determination of Absorption maxima of paracetamol.	3-4	4/8/23	
3)	Estimation of Dextrose	5-7	8/8/23	
4)	Determination of Sulfanilamide	8-9	11/8/23	
5)	Determination of absorption Maxima of Ibuprofen	10-11	18/8/23	
6)	Assay of paracetamol	12-13	22/8/23	S. Anna
7)	Estimation of Quinine sulphate	14-15	25/8/23	
8)	Study of Quenching effects of Fluorescence	16-17	28/8/23	
9)	Determination of Sodium by flame photometry.	18-19	05/9/23	
10)	Determination of potassium by flame photometry.	20-21	08/9/23	
11)	Determination of Chloride & Sulphate by Nepheloturbidimetry	22-25	12/9/23	S. Anna
12)	Separation of amino acids by paper chromatography	26-28	15/9/23	
13)	Separation & Identification of Sugar	29-30	22/9/23	
14)	Separation of chlorophylls, xanthophylls, carotenoids	31-32	26/9/23	



Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
14)	High pressure liquid Chromatography	33-34	29/9/23	} S. Arun
15)	Gas Chromatography.	35	03/10/23	




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Name :R. Ravi Teja.....

B. Pharm / M. Pharm[✓]2nd..... Year ..2nd..sem.

Subject :physical pharmaceuticals - II.....

Hall Ticket No. :22.VIIR0077.....



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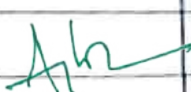
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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Determination of surface tension of given liquids by drop count method.	1-2	6-4-24	
2.	Determination of Freundlich & Langmuir constant using activated charcoal.	3-6	20-4-24	
3.	Determination Hydrophilic, lipophilic value.	7-9	27-4-24	
4.	Determination of critical micelle concentration of surfactant	10-11	4-5-24	
5.	Determination of viscosity of liq. using Ostwald's viscometer.	12-14	1-6-24	
6.	Determination Sedimentation value with effect of difference suspending agent	15-17	15-6-24	
7.	Determination of Sedimentation with value effect of different concentration of single suspending agent.	18-19	22-6-24	
8.	Determination of viscosity using Brookfield viscometer	20-22	6-7-24	
9.	Determination of reaction rate constant first order	23-25	20-7-24	




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
10.	Determination Reaction rate constant of Half-life period of Ethyl acetate at room temperature.	26-28	27-7-24	2
11.	Accelerated stability studies	29-30	3-8-24	


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Name :.....Akifa Arman.....

B. Pharm / M. Pharm ✓.....B. Pharmacy..... YearIIIrd - I.....

Subject :.....PHARMACOLOGY - II.....

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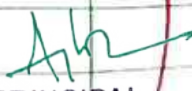
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23/2/24

Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Introduction to In vitro pharmacology and Physiological Solution.	1-5		  23/11/24
2.	Effects of drugs on isolated frog heart.	6-8		
3.	Effects of drugs on blood pressure and heart rate of dog.	9-12		
4.	Study of diuretics activity of drugs using rat (or) mice.	13-14		
5.	DRC of acetylcholine using frog rectus abdominal muscle.	15-17		
6.	Effects of Physostigmine on concentration response curve of acetylcholine using isolated rectus abdominal of frog.	18-19		
7.	Effects of Acetylcholine by matching method on guinea pig ileum preparation.	20-21		
8.	Bio-assay of Oxytocin using rat uterus preparation by interpolation method.	22-24		
9.	Bio-assay of Oxytocin using rat uterus preparation by three point bio-assay.	25-27		
10.	Bio-assay of acetylcholine using rat ileum by four point bio-assay.	28-30		
11.	To Determine the PA_{50} value of paraformal using rat anoxocyclops.	31-32		


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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
12.	Determination of PD_{50} value using Guinea pig ileum.	33-34		
13.	To study of Effect of Spasmogens and Spasmolytics using rabbit jejunum.	35-36		
14.	To study the anti-inflammatory activity of drugs using carrageenan induce paw edema model.	37-39		
15.	To study the analgesic effect of drug using central and peripheral method.	40-41		
16.	Diabetes Controlled by fenugreek Seeds.	42-43		




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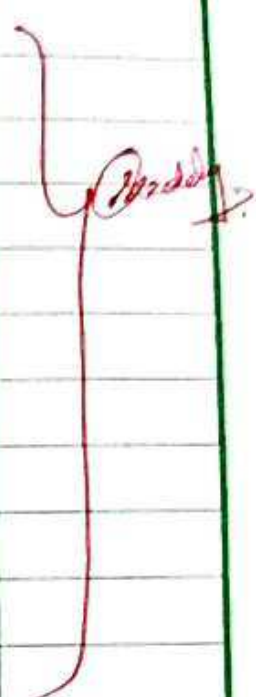
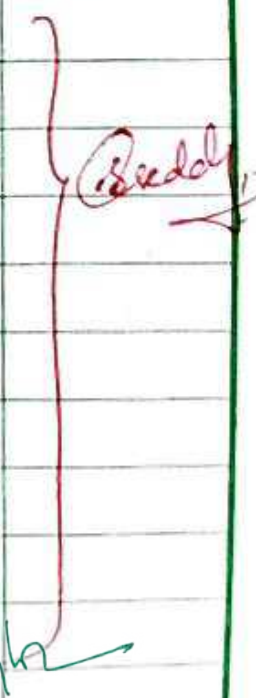
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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01	Introduction to Instruments	1-2	3-4-24	
02	Study of compound microscope.	3-9	24-4-24	
03	Analysis of crude drugs by chemical tests.	10-15	1-5-24	
04	Determination of stomatal number and stomatal index	16-19	8-5-24	
05	Determination of vein islet number, vein islet termination.	20-21	29-5-24	
06	Determination of palisade Ratio	22*	5-6-24	
07	Determination of calciumoxalate crystals by Eye piece micrometer	23*	12-6-24	
08	Determination of length and width of phloem fibres of chinchona and cinnamon	24	19-6-24	
09	Determination of number of starch grains by Lycopodium spore method	25-27	26-6-24	
10	Determination of Ash value of given Crude drug	28-30	3-7-24	
11	Determination of moisture content of Crude drug (Senna)	31	10-7-24	
12	Determination of swelling index and foaming index	32-33	24-7-24	
13	Determination of extractive value of crude drug	34-35	31-7-24	




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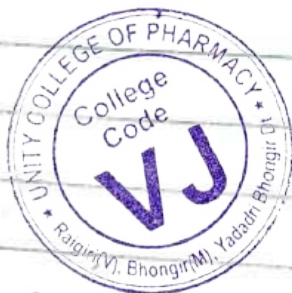
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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Crystallization of technique	1-3		S. Amma
2.	Steam distillation	4-5		
3.	Preparation of Acetone from Aniline	6-7		
4.	Preparation of 2,4,6 tribromo aniline from aniline	8-9		
5.		10-11		S. Amma
6.	Preparation of Phenyl benzoate phenol	12-13		
7.	Preparation of PARA Bromo Acetanilide from acetanilide	14-15		
8.	Preparation of 5-nitro Salicylic acid from Salicylic and by nitration Reaction	16-17		S. Amma
9.	Preparation of Chloride acid from benzyl chloride and by oxidation reaction	18-19		
10.	Determination of acid Value	20-21		
11.	Determination of Saponification Value	22-23		S. Amma
12.	Determination of Iodine Value	24-25		




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	Flame photometry	1 - 3		
02	Estimation of sodium metal using flame photometry.	4 - 5		
03	Estimation of potassium metal by using flame photometer	6 - 7		
04	Nephelometry and Turbidity	8		
05	Estimation of sulphate ions by nephelometer	9 - 10		
06	Quantitative estimation of various solvents by Abbe refractometer.	11 - 12		
07	Determination of concentration of unknown sample of glycerine by Abbe refractometer.	13 - 14		
08	Simultaneous estimation of Paracetamol Ibuprofen by UV-Visible spectroscopy.	15 - 18		



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
09.	Estimation of Aspirin Tablets by HPLC	19-20		} S. Arora
10.	Introduction.	21		


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Subject :..pharmaceutical..Quality control & Assurance



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	prepare and Evaluate para-cetamol conventional tablets	1-6		AT
2.	preparation and Evaluation of Sodium Chloride Solution	7-8		
3.	preparation and Evaluation of oral rehydration solution	9-10		
4.	preparation and Evaluation of liquid paraffin Emulsion	11-13		AT
5.	preparation and Evaluation of Arachis oil Emulsion	14-15		
6.	Assay of paracetamol by U-V spectroscopy	16-17		
7.	Determination of Absorption maximum of paracetamol in Alkaline medium	18-		AT
8.	Assay of diclofenac sodium by U-V visible spectroscopy	19-20		




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Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
9.	Assay of Ibuprofen by U.V Spectrophotometer	21-22		
10.	Infrared spectroscopy	23-25		

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Subject : Pharmaceutical Quality Control & Quality Assurance



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01	Prepare and Evaluate Paracetamol Conventional Tablets	01 - 07		
02	Preparation and Evaluation of Sodium Chloride solution	08 - 09		
03	Preparation and Evaluation of Oral Rehydration Solution	10 - 11		
04	Preparation and Evaluation of Liquid Paraben Emulsion	12 - 13		
05	Preparation and Evaluation of Arachis oil Emulsion.	14 - 15		
06	Assay of Paracetamol by UV Spectroscopy	16 - 17		
07	Determination of absorption maximum of Paracetamol Alkaline Medium.	18		
08	Assay of Diclofenac Sodium by UV Visible spectrophotometer	19 - 20		




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
09	Assay of Ibuprofen By UV Spectrophotometer.	21-22		
10	Infrared Spectroscopy.	23-27		


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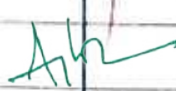
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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	prepare and evaluate para-cetamol conventional tablets	1-6		AT
2.	preparation and Evaluation of Sodium Chloride Solution	7-8		
3.	preparation and Evaluation of oral rehydration solution	9-10		
4.	preparation and Evaluation of liquid paraffin Emulsion	11-13		AT
5.	preparation and Evaluation of Arachis oil Emulsion	14-15		
6.	Assay of paracetamol by U-V spectroscopy	16-17		
7.	Determination of Absorption maximum of paracetamol in Alkaline medium	18-		AT
8.	Assay of diclofenac sodium by U-V visible spectroscopy	19-20		




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
9.	Assay of Ibuprofen by U.V Spectrophotometer	21-22		
10.	Infrared spectroscopy	23-25		

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01	Prepare and Evaluate Paracetamol Conventional Tablets	01 - 07		
02	Preparation and Evaluation of Sodium Chloride solution	08 - 09		
03	Preparation and Evaluation of Oral Rehydration Solution	10 - 11		
04	Preparation and Evaluation of Liquid Paraben Emulsion	12 - 13		
05	Preparation and Evaluation of Arachis oil Emulsion.	14 - 15		
06	Assay of Paracetamol by UV Spectroscopy	16 - 17		
07	Determination of absorption maximum of Paracetamol Alkaline Medium.	18		
08	Assay of Diclofenac Sodium by UV Visible spectrophotometer	19 - 20		



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
09	Assay of Ibuprofen By UV Spectrophotometer.	21-22		
10	Infrared Spectroscopy.	23-27		

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Subject : Advanced Instrumental Analysis

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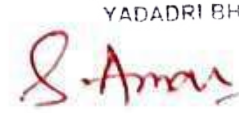
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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01	Flame photometry	1-2		
02	Estimation of sodium metal By using Flame photometry	3-5		
03	Estimation of potassium using Flame photometry	6-8		
04	Nephelometry and turbidimetry	9-10		
05	Estimation of sulphate ions By nephelometry	11-13		
06	Simultaneous Estimation of paracetamol And Ibuprofen Ibuprofen By UV-visible Spectroscopy	14-18		
07	Simultaneous Estimation of paracetamol And Diclofenac Sodium By UV-Spectrophotometer	19-23		
08	preservatives	24-25		
09	Estimation of Ascorbic Acid	26-28		



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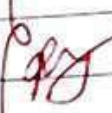
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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	Flame photometry	1 - 3		
02	Estimation of sodium metal using flame photometry.	4 - 5		
03	Estimation of potassium metal by using flame photometer	6 - 7		
04	Nephelometry and Turbidity	8		
05	Estimation of sulphate ions by nephelometer	9 - 10		
06	Quantitative estimation of various solvents by Abbe refractometer.	11 - 12		
07	Determination of concentration of unknown sample of glycerine by Abbe refractometer.	13 - 14		
08	Simultaneous estimation of Paracetamol Ibuprofen by UV-Visible spectroscopy.	15 - 18		




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
09.	Estimation of Aspirin Tablets by HPLC	19-20		} Summary
10.	Introduction.	21		

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
0.	Introduction of Blood	01 - 03	06-04-2024	No Dmgs
1.	Introduction of Haemocytometer	04 - 05	06-04-2024	
2.	Enumeration of white Blood cell (WBC)	06 - 08	20-04-2024	
3.	Enumeration of Red Blood cell (RBC)	09 - 10	20-04-2024	
4.	Determination of Bleeding time.	11 - 12	27-04-2024	
5.	Determination of Clotting time.	13	27-04-2024	
6.	Estimation of Haemoglobin content	14 - 15	01-06-2024	
7.	Determination of blood group	16 - 19	15-06-2024	
8.	Determination of Erythrocyte sedimentation rate (ESR)	20 - 22	15-06-2024	No Dmgs
9.	Determination of heart rate and pulse rate.	23 - 24	29-06-2024	
10.	Recording of blood pressure.	25 - 27	06-07-2024	
11.	Determination of Tidal volume and vital capacity	28	20-07-2024	
12.	Recording of Basal Mass Index	29	27-07-2024	
13.	Study of family planning devices	30 - 32	03-08-2024	
14.	Study of Pregnancy diagnosis Test.	33 - 34		
14.	Demonstration of total Blood count by cell analyser.	35 - 36	03-08-2024	




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Name : MD. Naseer. Baba.

B. Pharm / M. Pharm B. pharm Year II - I

Subject : pharmaceutical. microbiology

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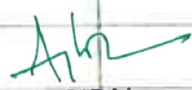
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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01	INTRODUCTION	1-3	4-12-2023	
02	Study of laboratory equipments	4-12	4-12-2023	
03	sterilization of Glassware	13		
04	preparation of Nutrient Media	14-15		
05	Isolation of pure culture by streak plate technique	16-17		
06	culture transfer technique	18-20		
07	Simple Staining	21-22		
08	Gram Staining	23-25		
09	acid fast Staining	26-28		
10	motility of bacteria by using hanging drop technique	29-30		
11	preservation of micro-organism	31-32		
	Slant & Starch culture			
12	Microbiological Assay of penicillin (cup plate method)	33-34		
13	microbial assay of antibiotic (Disc plate method)	35-36		
14	Bacterial Analysis of water	37-38		
15	Biochemical test	39-40		
16	M.P - V.P. test	41-43		
17	citrate Test	44-46		




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Name : K. Nikhitha

B. Pharm / M. Pharm 3rd Year II - Sem

Subject : Herbal drug technology



Hall Ticket No. : 21VJI0050


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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	Preliminary phytochemical screening of crude drugs	1-9	16/4/24	
2	phytochemical screening of Senna	10	23/4/24	
3	phytochemical screening of Vasale	11	23/4/24	
4	Evaluation of excipients from natural origin	12-14	30/4/24	
5	Evaluation of excipients of natural origin	15-16	30/4/24	
6	Chemical test for Honey	17	30/4/24	
7	chemical test for Benzoin	18	7/5/24	
8	chemical test for tragacanth	19-20		
9	preparation & evaluation of Herbal Shampoos	21-23	7/5/24	
10	preparation & evaluation of herbal lotion	24-26	4/6/24	
11	preparation & evaluation of herbal creams	27-29	11/6/24	



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
12	preparation & evaluation of Herbal syrups	30-35	18/6/24	
13	preparation & evaluation of Herbal mixture	36-40	25/6/24	
14	preparation & evaluation of herbal tablets	41-47	2/7/24	
15	Determination of aldehyde contents	48	9/7/24	




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Name :.....T. Vaishnavi.....

B. Pharm / M. Pharm B:pharmacy..... Year I-II.....

Subject :.....Computer Application.....

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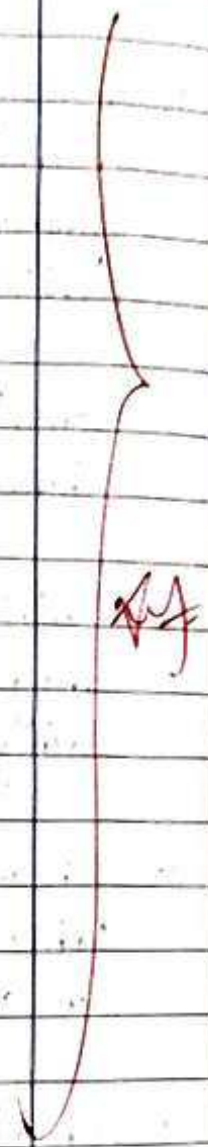
Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Design a questionnaire using a word processing package to gather information about a particular disease.	1-2		
2.	create a HTML web page to show personal information.	3-8		
3.	Retrieve the information of a drug and its adverse effects using online method.	9-11		
4.	Creating mailing labels using table wizard generating label in Ms word.	12-13		At.
5.	create a database in MS Access to store the patient information with the required fields using Access.	14-18		
6.	Design a form in MS Access to view, add, delete and modify the patient record in the data base.	19-20		

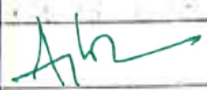



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
7.	Generating report and printing the report from patient data base.	21-22		
8.	Creating in voice table using MS Access	23-27		
9.	Drug information storage and Retrieval using MS Access	28-33		
10.	Creating and working with Queries in MS Access	34-35		
11.	Exporting tables, queries form and reports to web pages	36-37		
12.	Exporting tables, queries forms and reports to word pages.	38-39		




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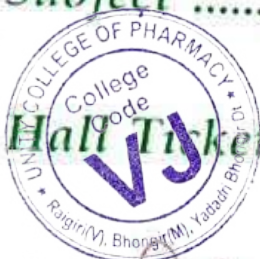
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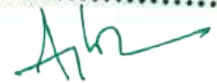
Name : P. Akash

B. Pharm / M. Pharm B. pharmacy Year II - I

Subject : pharmaceutical Engineering



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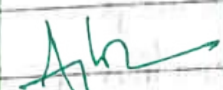
Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Determination of radiation constant of Brass, Iron unpainted and painted.	1-5	4/12/23	}
2.	To calculate the efficiency of steam Distillation	6-8	2/1/24	
3.	Determination the overall Heat transfer co-efficiency by Heat Exchange	9-11	2/1/24	
4.	Construction of Drying Curves of Calcium Carbonate & Starch.	12-13	29/1/24	
5.	Determination of Moisture Content and loss of drying.	14-15	03/02/24	
6.	Determination + humidity of air By point Method	16-17	09/02/24	
7.	Determination of humidity of air By wet and Dry Bulb temperature	18-19	23/02/24	
8.	Size analysis by sieving	20-21	5/02/24	
9.	Size reduction by ball mill	22-25	7/02/24	
10.	Description of construction working and application of pharmaceutical machinery.	26-31	8/02/24	




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J. Paulani

Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
11)	Demonstration of colloidal milk planetary mixer fluidized bed, freeze dryer	31-32	20/02/24	}
12.	Determination of factors affecting rate of filtration	33-35	27/2/24	
13.	Effect Time on rate of crystallization	36-38	27/02/24	
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Name : P. Dharmesh Yadav

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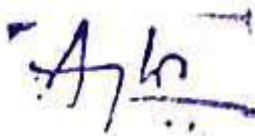
Subject : Pharmaceutical Engineering

Hall Ticket No. : 22VJIR0062




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01.	Determination of Radiation Constant of Brass, Iron, unpainted and painted glass.	1-5	4/12/23	U. Pawani
02.	Steam distillation to calculate the efficiency of steam distillation	6-8	2/1/24	U. Pawani
03.	Determination the overall heat Transfer Co-efficient by heat exchange	9-11	2/1/24	
4.	Construction of drying curves of Calcium Carbonate & Starch	12-13	29/1/24	
05.	Determination of moisture content and loss on drying	14-15	03/02/24	U. Pawani
06.	Determination of humidity of air by dew point method	16-17	19/02/24	
9.	Determination of humidity of air by wet & dry bulb temperature.	18-19	23/02/24	




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
8	Size analysis by sieving	20-21	5/02/24	✓ Parvati
9	Size reduction by ball mill	22-25	7/02/24	
10	Description & Construction working and application & pharmaceutical machinery.	26-31	8/02/24	
11	Demonstration of Colloid mill, planetary mixer, fluidized bed dryer, freeze dryer.	31-37	20/02/24	
12	Determination of factors affecting rate of filtration.	38-45	27-2-24	
13	Effect of Time on rate of Crystallisation	36-37	27-02-24	




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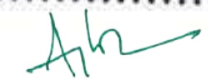
Name : B. Satish Kumar

B. Pharm / M. Pharm : B. Pharmacy Year : 2nd / 1

Subject : Pharmacology - (11)

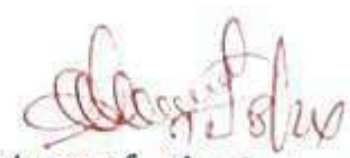


Hall Ticket No. : 215180015



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Dose Calculations in pharmacological experiment	1-4		
2.	Anti-Allergic activity by mast Cell Stabilization assay	5-6		
3.	Study of anti ulcer-activity of a drug using pylorus ligation method & Nitric induced ulcer model	7-9		
4.	Study of effect of drugs on GIT motility	10-11		
5.	Effect of agonist & Antagonist on guinea pig lemon	12.		
6.	Estimation of Serum bio chemical parameters by using Semi-Auto analyser	13-14		
7.	Effect of Saline purgative on Absorptive intestine.	15		
8.	Insulin hypoglycemic effect in Rabbit	16-17		




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Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
9.	Test for pyrogens	18-19.		
10.	To determine CPD value of a given drug.	20-21		

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Name : S. priyanka

B. Pharm / M. Pharm ... B. pharmacy ... Year ... 2nd year 1 Sem

Subject : physical pharmaceutics



Hall Ticket No. : 22VJ1 R0090

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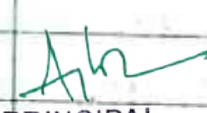
Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01	Determination of solubility of dry at room temperature	1-2	22-11-2023	
2	Determination of pKa value by half neutralization or Henderson hessel batch equation	3-5	12-12-2023	
03	Determination of partition coefficient of Benzoic acid between benzene and water	6-8	03-01-2024	
04	Determination of partition coefficient of iodine in carbon tetra chloride and water	9-11	03-01-2024	
05	Determination of % composition of sodium chloride in solution using phenol water system by CST method	12-13	03-01-2024	
06	Determination of particle size and size distribution using sieving method	14-15	30-01-2024	
07	Determination of particle size and size distribution using microscopy method	16-18	30-01-2024	
08	Determination of bulk density True density and porosity	19-21	30-01-2024	
09	Determination of angle of Repose and influence of lubrication on angle of repose	22-24	6-02-2024	




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
10	determination of stability constant and donor acceptor ratio of PABA cathecin complex by solubility method	25-27	13-02-2024	  PRINCIPAL UNITY COLLEGE OF PHARMACY RAIGIRI (V), BHONGIR (M), YADADRI BHONGIR (DT)
11	determination of stability constant and donor acceptor ratio of copper glycine complex by pH titration method	28-31	13-02-2024	





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Name :..... K. Anji^{oo}

B. Pharm / M. Pharm *P* *Year* *P*

Subject :..... Communication skills.

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Communication skills	1-8		
2.	Elements of Communication.	9-12		
3.	Basic Listening skills	13-17		
4.	Interview skills.	18-21		
5.	Group Discussion.	22-25		
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Name :.....T. Shrivani.....

B. Pharm / M. PharmB - Pharmacy..... YearI - I.....

Subject :.....HUMAN ANATOMY AND PHYSIOLOGY.....

Hall Ticket No. :.....23VJ1R0074.....



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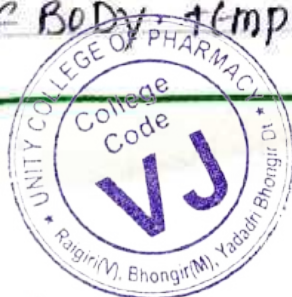

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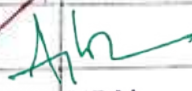

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	STUDY OF COMPOUND MICROSCOPE	1-10 5	05/12/2023	
2	MICROSCOPE STUDY OF EPITHELIAL AND CONNECTIVE TISSUE	6-10 10	12/12/2023	
3	TO STUDY OF MUSCULAR AND NERVOUS TISSUE	11-10 15	12/12/2023	
4	TO IDENTIFIED AXIAL SKELTON BONE	16-10 18	19/12/2023	
5	IDENTIFICATION OF APPENDICULAR BONES	19-10 21	26/12/2023	
6	TO DEMONSTRATE THE GENERAL NEUROLOGICAL EXAMINATION.	22-10 24	02/01/2024	
7	TO DEMONSTRATE THE FUNCTION OF OLFACTORY NERVE	25-10 26	02/01/2024	
8	TO EXAMINE THE DIFFERENT TYPE OF TASTE	27-10 28	09/01/2024	
9	TO DEMONSTRATE THE VISUAL (ACTIVITY) & ACCURACY.	29-10 31	23/01/2024	
10	TO DEMONSTRATE RECORDING OF BODY TEMPERATURE	32-10 34	23/01/2024	




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Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
11	TO DEMONSTRATE POSITIVE AND NEGATIVE FEED BACK MECHANISM	35 to 37	30/01/2024	
12	TO STUDY THE INTEGUMENTARY AND SPECIAL SENSES SPECIMEN MODULES ETC..	38 to 42	06/02/2024	
13	TO STUDY THE NERVOUS SYSTEM USING SPECIMEN MODULES ETC..	43 to 50	06/02/2024	
14	TO DEMONSTRATE THE REFLEX ACTIVITY	51 to 53	13/02/2024	
15	TO STUDY THE ENDOCRINE SYSTEM USING SPECIMENS MODELS ETC..	54 to 60	20/02/2024	




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Name : P. VINAY

B. Pharm / M. Pharm B. PHARM Year I - year I Sem



Subject : Pharmaceutics

Hall Ticket No. : 23 VJ1R0054

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	Simple Syrup	1	30-10-2023	
2	Paracetamol periodic Syrup	2-6	30/10/2023	
3	Elixir paracetamol paediatric	7-8	6/11/2023	
4	Paracetamol paediatric elixir	9-10	6/11/2023	
5	Simple Linctus	11-12	13/11/2023	
6	Strong Ammonium Acetate solution I.P.	13-14	20/11/2023	
7	Cresol with soap solution I.P.	15-16	20/11/2023	
8	Calamine lotion I.P.	17-18	27/11/2023	
9	magnesium hydroxide mixture B.P.	19-21	4/11/2023	
10	Turpentine liniment	22-23	4/11/2023	
11	Liquid paraffin Emulsion	24-25	11/12/2023	
12	ORS	26	11/12/2023	
13	Effervescent Granules	27-28	18/12/2023	
14	Dusting powder	29-30	18/12/2023	
15	Glycerol Gelatin suppository	31-32	8/1/2024	
16	Soap Glycerin suppository	33	8/1/2024	
17	Sulphur ointment	34-35	22/1/2024	
	Non-staining iodine ointment	-	22/1/2024	
18	with methyl salicylate	36-37	29/1/2024	
19	Bentonite Gel	38	29/1/2024	
20	potassium chlorate gargle	39	30/1/2024	
21	chlorhexidine mouthwash	40		




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Name :.....B. Navya kumari.....

B. Pharm / M. Pharm B. Pharmacy..... YearIII - I.....

Subject :.....Pharmacognosy and phytochemistry - II.....



Hall Ticket No. :.....21211R0016.....

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Introduction to microscope	1-6	11/10/23	✓
2.	Introduction to preparation of histological slides	7-9	11/10/23	
3.	[Systemic pharmacognostic study of cinchona]	10-11	18/10/23	
4.	[Systemic pharmacognostic study of cinnamon]	12-14	1/11/23	
3.	Morphology, histology and powder characteristics and extraction detection of			✓
	cinchona	10-11	18/10/23	
	cinnamon	12-14	1/11/23	
	Senna	15-18	15/11/23	
	clove	19-21	22/11/23	
	ephedra	22-24	29/11/23	
	Funnel	25-27	6/12/23	
	coriander	28-30	13/12/23	
4.	Isolation and detection of active			✓
	principles caffeine from tea dust	31-32	20/12/23	
	Diosgenin from Dioscorea	33-34	20/12/23	
	Atropine from Belladonna	35-36	31/1/24	
	Seriosides from senna	37-38	31/1/24	



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
5.	separation of sugars by paper chromatography	39-40	10/1/24	
6	TLC of herbal extract	41-43	24/1/24	
7.	Distillation of volatile oils and detection of phytoconstituents by TLC	44-45	31/1/24	
2	Analysis of crude drugs by chemical test	46-48	7/2/24	pm
	i) Asafoetida		7/2/24	
	ii) Benzoin		9/2/24	
	iii) colophony		14/2/24	
	iv) Aloes		14/2/24	




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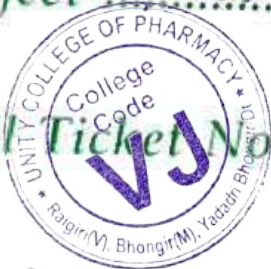
Certified that this is a bonafide record of the practical work done during the year 20 23 -20 24 by

Name : J. Aishwarya

B. Pharm / M. Pharm B. Pharmacy Year 1st Year

Subject : Pharmaceutical - Inorganic chemistry

Hall Ticket No. : 23VJ1R0027



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Particulars of the Experiment Performed

Name of Experiment	Page No.	Date of Experiment	Remarks
Introduction to glassware and Equipments	1-5	31-10-23	✓
Limit test for sulphates	6-8	7-11-23	
Modified Limit Test for chlorides	9-11	7-11-23	
modified limit test for sulphates	12-14	14-11-23	
limit test for Iron	15-17	28-11-23	
limit test for Heavy metals	18-19	5-12-23	✓
To perform limit test for Heavy metals	20-21	5-12-23	
limit test for Arsenic	22-24	5-12-23	✓
limit test for identification test for magnesium oxide	25-	12-12-23	
Identification Tests for Sample of ferrous sulphate	26-28	12-12-23	
Identification tests with a given Sample Sodium bicarbonate	29-31	19-12-23	✓
Identification test for Calcium Gluconate	32-34	19-12-23	
Identification Test for Copper sulphate	35-37	2-1-24	
Swelling power of Bentonite	38-	2-1-24	✓



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Re
15	Acid Neutralising Capacity of Aluminium Hydroxide Gel.	39	9-1-24	
16	Presence of Iodide in Potassium Iodide.	40-41	9-1-24	
17	To prepare & submit basic acid.	42-43	23-1-24	
18	Preparation of Potassium alum	44	23-1-24	
19	Preparation of ferrous sulphate.	45	30-1-24	
20	preparation of magnesium sulphate.	46-47	30-1-24	




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CERTIFICATE

Certified that this is a bonafide record of the practical work
done during the year 20 23 -20 24 by

Name : Rampally Sriharsha

B. Pharm / M. Pharm B-pharmacy Year 1st Year 1st Sem

Subject : Pharmaceutical Analysis

Hall Ticket No. : 23VJ1R0058

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Signature of the External



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YADADRI BHONGIR (DT)

G. Reddy
Signature of the Internal

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YADADRI BHONGIR (DT)

Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	General Introduction.	1-6	4/11/2023	
2.	Preparation and standardization of 1M of Sodium hydroxide Solution.	7-8	4/11/2023	G. Sreedy
3.	Preparation and standardization of Sulphuric acid solution.	9-10	18/11/2023	
4.	Preparation and Standardization of Sodium tetra Sulphate Solution.	11-12	18/11/2023	G. Sreedy
5.	Preparation and Standardization of 0.1M Potassium permanganate solution.	13-14	25/11/2023	
6.	Assay of Ammonium chloride by Acid-base titration.	15-17	2/12/2023	
7.	Assay of Ferrous Sulphate by Cerimetry.	18-19	16/12/2023	G. Sreedy
8.	Assay of copper Sulphate by Iodometry.	20-22	16/12/2023	
9.	Assay of Calcium Gluconate by complexometry.	23-24	23/12/2023	Ah



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
10.	Assay of hydrogen peroxide by Permanganometry.	25-26	30/12/2023	<i>G.S. Sarda</i>
11.	Assay of Sodium Benzoate by Non-Aqueous Solution.	27-28	6/1/24	
12.	Assay of Sodium chloride by precipitation titration.	29-30	20/01/2024	
13.	Conductometric titration of Strong acid against Strong Base.	31-32	27/01/2024	<i>G.S. Sarda</i>
14.	Potentiometric titration of a Strong acid with a Strong Base.	33-34.	03/02/2024.	

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CERTIFICATE

Certified that this is a bonafide record of the practical work
done during the year 2023 -20 24 by

Name :.....B. Rujatha.....

B. Pharm [✓] / M. PharmIIIrd..... YearIVth sem.....

Subject :.....Industrial pharmacology.....



Hall Ticket No. :.....21VJ1R0078.....

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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01	preformulation of study of paracetamol drug	1-6	2-12-2023	
02	preparation of paracetamol Tablet 7-8		2-12-23	
03	Evaluation of paracetamol Tablet 9-11		2-12-23	
04	preparation of aspirin-tablets 12-13		1-12-23	
05	Evaluation of aspirin-tablets 14-16		30-12-23	
06	Coating tablets 17-18		30-12-23	
07	formulating of film coated tablets of paracetamol 19-20		6-1-24	
08	formulating of Enteric Coated tablet of ameprozole 21-23		20-1-24	
09	preparation & Evaluation of hard gelatin Capsules of tetracycline hydrochloride 24-25		20-1-24	
10	preparation of Calcium gluconate Injection 26-28		27-1-24	

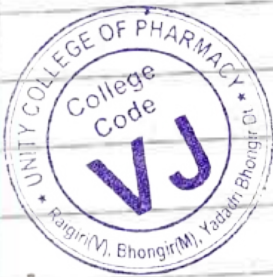



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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
11.	preparation of ascorbic injection	29-30	27-1-24	}
12.	preparation of paracetamol syrup	31-32	3-2-24	
13.	preparation of atropine eye drops	33-34	3-2-24	
14.	preparation of vanishing creams	35-36	3-2-24	
15.	Evaluation of glass containers (As per I.p)	37-38	27-1-24	X



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Raigir (V), Bhongir (M), Nalgonda (Dist.)

CERTIFICATE

Certified that this is a bonafide record of the practical work done during the year 2023 -20 24 by

Name : V. Nandini

B. Pharm / M. Pharm IV Year I sem

Subject: Instrumental Method of Analysis

Hall Ticket No. : SOUJIRO041



Signature of the External

Signature of the Principal
PRINCIPAL
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YADADRI BHONGIR (DT)

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YADADRI BHONGIR (DT)

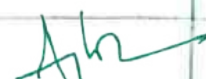
Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1.	Introduction of Spectroscopy	1	1/08/23	Samar
			4/08/23	
1.	Determination of Absorption maxima of paracetamol	2-3	4/08/23	
2.	Estimation of Dextrose	4-6	8/08/23	
3.	Determination of absorption maxima of Ibuprofen	7-8	11/08/23	Samar
4.	Determination of Sulphanilamide	9-10	18/08/23	
5.	Assay of paracetamol	11-12	22/08/23	
6.	Estimation of Quinine sulphate	13-14	25/08/23	
7.	Study of Quenching effects of fluorescence.	15-16	01/09/23	Samar
8.	Determination of sodium by flame photometry.	17-18	05/09/23	
9.	Determination of potassium by flame photometry.	19-20	08/9/23	
10.	Determination of chloride & sulphate by Nepheloturbidimetry	21-23	12/9/23	
11.	Separation of amino acids by paper chromatography.	24-26	15/09/23	Samar
12.	Separation & Identification of chlorophylls	27-28	22/9/23	
13.	Separation of carotenoids.	29-30	26/9/23	



Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
14.	High pressure Liquid chromatograph.	31-32	29/09/23	S. Arman
15.	Gas chromatograph	33	03/10/23	


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CERTIFICATE

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done during the year 2023 -20 24 by*

Name : B. Vikram

B. Pharm / M. Pharm IInd Year IInd Sem.....

Subject : physical pharmaceutics - II.....



Hall Ticket No. : 22VJIR0005

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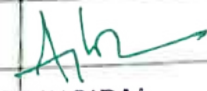
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YADADRI BHONGIR (DT)

Signature of the Internal

Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1)	Determination of surface tension of given liquids drop count and drop weight method.		5-04-24	
2)	Determination of HLB number of a surfactant by using a saponification method		12-04-24	
3)	Determination of freundlich and langmuir constant using activated charcoal.		19-04-24	
4)	Determination of critical Micellar concentration of surfactant		26-04-24	
5)	Determination of viscosity of liquid using ostwald's viscometer.		03-05-24	
6)	Determination sedimentation value with effect of difference suspending agent		07-06-24	
7)	Determination of sedimentation with effect of different concentration of suspending agent		14-06-24	




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P. S. S. S.

Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
8	Determination of viscosity using Brookfield viscometer.		06-07-24.	
09)	determination of Reaction Rate constant first order.		10-07-24.	
10).	determination Reaction Rate constant of Half-life Period of Ethyl Acetate at Room temperature		27-07-24.	
11)	Accelerated stability studies.		09-08-24	
12				




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CERTIFICATE

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Name : G. Sxavani

B. Pharm / M. Pharm ☒ Year ☐

Subject : Pharmacognosy & Phytochemistry-I

Hall Ticket No. : 22VJIR0030



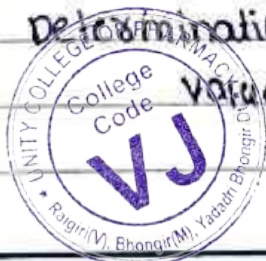
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YADADRI BHONGIR (DT)

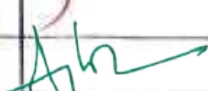
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Signature of the Internal

Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
1	Introduction of Instruments	1-2	6-4-24	
2	Study of compound Microscope	2-9	20-4-24	
3	Analysis of crude drugs by chemical tests	10-17	27-4-24	
4	Determination of stomatal number and stomatal index	18-21	4-5-24	
5	Determination of vein islet number vein islet termination	22-23	1-6-24	
6	Determination of Palisade Ratio	24-25	8-6-24	
7	Determination of calcium oxalate crystals by Eye Piece micrometer	26	15-6-24	
8	Determination of length and width of Phloem fibres of chinchona and cinnamon	27	22-6-24	
9	Determination of ash value number of starch grains by Lycopodium spore method	28-30	29-6-24	
11)	Determination of moisture content of crude drugs	34	6-7-24	
10	Determination of ash value of given crude drug	31-33	13-7-24	
12	Determination of swelling Index and foaming	35-36	20-7-24	
13	Determination of extractive values of crude drugs	37-38	27-7-24	




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CERTIFICATE

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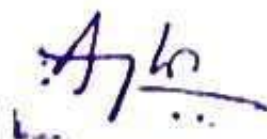
Name :.....J. Srinivas.....

✓
B. Pharm / M. Pharm B.. pharmacy.... Year 2nd - 1.....

Subject : pharmaceutical Organic Chemistry.....

Hall Ticket No. :... 22VJIR0035.....





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YADADRI BHONGIR (DT)



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Particulars of the Experiment Performed

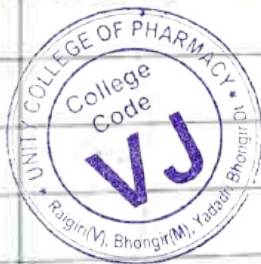
Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
01.	Recrystallization Techniques	1-2		S. Amma
02.	Recrystallization of acetanilide	3		
03.	Preparation of benzanilide from aniline	4		
04.	Preparation of phenyl benzoate from phenol	5		
05.	Preparation of acetanilide from aniline	6		S. Amma
06.	Preparation of 2,4,6-tribromo aniline from aniline.	7		
07.	Preparation of meta-di-nitro benzene from benzene by nitration reaction	8		
08.	Preparation of parabromo acetanilide from acetanilide	9		S. Amma
09.	Preparation of benzoic acid from benzyl chloride by oxidation reaction	10		
10.	Preparation of benzil from benzoin by oxidation	11		
11.	Preparation of 1-phenyl azo-2-naphthol from aniline	12		S. Amma
12.	Dibenzal acetone from benzaldehyde by Claisen Schmidt reaction	13		
13.	Preparation of cinnamic acid from benzaldehyde by perkin reaction	14		




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Particulars of the Experiment Performed

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Remarks
14.	Preparation of p-iodo benzoic acid from p-amino benzoic acid.	15		} S.A.M.
15.	Determination of acid value	16		
16.	Determination of saponification value	17		
17.	Determination of iodine value	18.		




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(Approved by AICTE, PCI & Affiliated to JNTU Hyd)

Raigir (V), Bhongir (M), Yadadri Bhongiri (Dt.), Ph : +91-8885580051 E-mail : principalucp@gmail.com

Date: 01.03.2024

NOTICE

Notice is hereby given that the Governing body meeting of Unity College of Pharmacy is scheduled to be held at 2:00 P.M on 02.03.2024 in the premises of the college.

AGENDA

1. Application for the 2(f) status of UGC for Unity College of Pharmacy.

CHAIRMAN

Copy to the Principal, member secretary and all other members of the Governing body with a request to make it convenient to 'participating' in the deliberations.

- | | |
|--------------------------|-------------------------------|
| 1. Ch.Anand | Member |
| 2. Smt.G.Sirija | Member |
| 3. P.Goverdhan Reddy | Member |
| 4. Dr.K.Mohini | Member |
| 5. Dr.B.Nishanth Reddy | Member (Eminent Professional) |
| 6. B.Narayana Reddy | Member (Eminent Professional) |
| 7. Dr.M.Srinivasa Reddy | Member (Academic) |
| 8. Dr.J.Venkateshwar Rao | Member (Academic) |
| 9. Dr.K.Neeraja | University Nominee |
| 10. I.Rajeev | Sr.Faculty |
| 11. Md.Ismail | Sr.Faculty |
| 12. S.Amarnath | Sr.Faculty |
| 13. A.Priyanka | Sr.Faculty |
| 14. Dr.Ampati Srinivas | Member Secretary |

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UNITY COLLEGE OF PHARMACY

RAIGIR (V), BHONGIR (M), YADADHRI BHUVANAGIRI (Dist)

GOVERNING BODY RESOLUTION

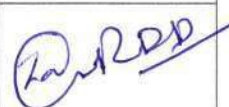
EXTRACT OF THE MINUTES

Members present for the Governing body meeting of Unity College of Pharmacy, Raigir, Bhongir, Yadadri Bhuvanagiri Dist, Telangana, sponsored by Samaikhya Educational Society meeting held on **02/03/2024 at 02.00 pm** in the Administrative Office. The meeting was chaired by **A Prabhakar Reddy**, Secretary & Correspondent, Samaikhya Educational Society, and resolved the following.

Item No.1 :To apply 2(f) status of UGC for Unity College of Pharmacy, Raigir, Bhongir, Yadadri Bhuvanagiri Dist, Telangana for the academic year 2023-24.

Resolution: Resolved to apply for obtaining 2(f) status of UGC during the Academic year 2023-24. The committee permitted the Chairman of the Governing Body to sign all the documents pertaining to the above on behalf of the society and submit to the UGC for obtaining 2(f) to the college during the year 2023-24.

Signature of the Governing Body Members

S.No.	Name of the	DESIGNATION	Governing Body	SIGNATURE
1	A.Prabhakar Reddy	General Secretary Samaikhya Educational Society	Chairman	
2	Ch.Anand	Vice-President Samaikhya Educational Society	Member	


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3	Smt.G.Sirija	Treasurer Samaikhya Educational Society	Member	G. Sirija
4	P.Goverdhan Reddy	Member Samaikhya Educational Society	Member	P. Goverdhan
5	Dr.K.Mohini	Associate Professor Unity College of Pharmacy	Member	K. Mohini
6	Dr.K.Neeraja	JNTUH Nominee	Member	Dr. K. Neeraja
7	Dr.Ampati Srinivas	Principal Unity College of Pharmacy	Member Secretary	A. Srinivas
8	Dr.B.Nishanth Reddy	Doctor	Member (Eminent Professional)	N. Nishanth
9	Mr.B.Narayana Reddy	Advocate	Member (Eminent Professional)	B. Narayana
10	Dr.J.Venkateshwar Rao	Principal, TPCP, Warangal	Member (Academician)	J. V. Rao
11	Dr.M.Srinivas Reddy	Principal, VCP, Karimnagar	Member (Academician)	M. Srinivas
12	Mr.I.Rajeev	Associate Professor	Member (Sr.Faculty)	I. Rajeev
13	Mrs.A.Priyanka	Associate Professor	Member (Sr.Faculty)	A. Priyanka
14	Mr.S.Amarnath	Associate Professor	Member (Sr.Faculty)	S. Amarnath


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UNITY COLLEGE OF PHARMACY
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Date: 07.08.2023

GOVERNING BODY MEETING

AGENDA

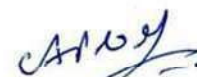
1. Progress of the previous meeting held on 30.12.2022.
2. Approvals and Admissions for the Academic Year 2023-24
3. Approval status of Unnath Bharath Abhyan
4. Examinations, Results for the Academic Year 2022-23
5. Conduct of One day National Conference
6. Curbing of Ragging in the institute.
7. Progress on the NAAC Accreditation.
8. Placement Drive for the year 2022-23
9. Industrial Training for 2023-24
10. Publishing of Research Articles by Faculty members.
11. Recruitment of New faculty members to fulfill the vacancies.
12. Conducting of Extra Curricular activities.



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CHAIRMAN

Minutes of the Governing Body Meeting of **Unity College of Pharmacy** sponsored by “**Samaikhya Educational Society**”, held on 07.08.2023 in the college premises.

Dr.Ampati Srinivas, Principal & Member Secretary of the Governing body of Unity College of Pharmacy conducted the proceedings as per agenda.

The proceedings and resolutions of the meeting are as follows:-

Agenda item No.1: Progress of Previous meeting.

Notes: Discussion required to seeing whether any progress is there in the points mentioned in the previous meeting held on 30.12.2023.

Agenda item No.2: Approvals and Admissions for the Academic year 2023-24.

Notes: Discussion required on the approvals and admissions for the A.Y 2023-24 in both UG and PG Courses.

Agenda item No.3: Approval Status of Unnath Bharath Abhiyan (UBA).

Notes: Discussion required on the approval status of Unnath Bharath Abhiyan (UBA)

Agenda item No.4: Examinations, results for the Academic year 2023-24

Notes: Discussion required on the examinations, results for the Academic year 2023-24

Agenda item No.5: Conduct of One day National Conference

Notes: Discussion required on the conduct of One Day national conference

Agenda item 6: Curbing of Ragging in the institute

Notes Discussion required on the Ragging restriction in the institute

Agenda item No.7 : Progress on the NAAC Accreditation

Notes Discussion required on the status of NAAC Accreditation

Agenda item No. 8: Placement Drive for the Academic Year 2022-23

Notes: Discussion required on placement drive conducted for the academic year 2022-23.

Agenda item No. 9: Industrial training for the academic year 2023-24

Note: Discussion required on Industrial training for the academic year 2023-24.


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Agenda item No. 10: Publishing of Research Papers

Note: Discussion required on the Research publications for the previous and present academic year.

Agenda item No. 11: Recruitment of New faculty members to fulfill the vacancies

Note: Discussion required on the recruitment of faculty members to fulfill the vacancies.

Agenda item No. 12: Conducting Extra curricular activities

Note: Discussion required on the organization of extracurricular activities.



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Minutes of the Meeting

The following points were discussed in the governing body meeting held on 07.08.2023.

1. **Progress of Previous meeting:** The chairman of the Governing body has explained various point covered in the previous meeting, explained the progress in the previous meeting held on 30.12.2022. The following are the progress made from the last Governing Body Meeting.
 - i) **Approval of NSS Unit.** - Our institution got approval from University and our institution identified as NSS Unit. We have organized various NSS Program and submitted the report to the NSS Co-Ordinator, JNTUH.
 - ii) **Conduct of One Day National Conference:** Our Institution has organized A One Day National Conference on 'INNOVATIONS IN PHARMACY AND PRACTICE' on February 17th 2023 in Association with APTI. The President of APTI, Telangana, Pharmacy Council of India Central Council Member, CEO, CLInoxy Ltd have attended as Guests and delivered lectures. Totally 450 students and faculty participated from various Pharmacy colleges including our college.
 - iii) **Introduction of New Course:** Initially we planned to introduce Pharm.D program from the academic year 2023-24 onwards but afterwards we withdrawn our decision.
 - iv) **Recruitment of New Faculty:** As the vacancies raised were fulfilled by new faculty members recruitment.

The governing body approved the minutes of previous meeting

2. Approvals and Admissions for the Academic year 2023-24.:

The Chairman of the Governing body explained and declared that for the Academic year Pharmacy Council of India accorded approval for the Academic year 2023-24 with 100 intake in B.Pharmacy and 15 intake each in both M.Pharmacy Pharmaceutics and M.Pharmacy Pharmaceutical Analysis course.

JNTUH has conducted FFC visits, inspected and issued Deficiencies. Fortunately we have issued with NIL Deficiencies. Approvals awaiting from JNTUH.

Governing body approved this discussion.

3. Approval Status of Unnath Bharath Abhiyan (UBA) :

The Chairman of the Governing body explained and declared that our institution has applied for the Registration and Approval of Unnath Bharath Abhiyan a rural development scheme organized by Government of India. Our Registration Application is in final stage for the approval of NCI (National Coordinator of Institutions).

The Governing body approved this discussion.

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4. Examinations, results for the Academic year 2023-24 :

The chairman of the Governing body has discussed and explained that

This year total 33 students have appeared for PGECET 2023 entrance examination for their PG Courses. Out of 33 students 33 students have qualified in the PGECET 2023.

B.Pharmacy final year exams completed and results were announced by esteemed JNTUH already in the month of July, 2023. Total 36 students were appeared for exams and 35 students has passed the examinations. This year 97% of final year students passed in the examinations.

B.Pharmacy III year II Sem exams were also completed on 03.08.2023. B.Pharmacy II year II Sem, B.Pharmacy I Year II sem and M.Pharmacy semester end exams will be commenced in the month of September.

The Governing body has approved this discussion.

5. Conduct of One day National Conference

The chairman of the Governing body has discussed and explained that planned to organize a National one day Conference tentatively in the month of December, 2023. As a part of this National one day Conference we are planned to invite the Guests Dr. M.Venkata Ramana Sir, Executive Council member, Pharmacy Council of India, Dr. V. Prabhakar Reddy, Central Council member, Pharmacy Council of India and Dr.Kalyana Chakravarthy, Vice-President, Dr.Reddy's Laboratories. We are expected 400 to 500 students to be participating in this conference. As a part of this conference, we are planning for two lectures from the speakers in the morning session followed by delicious lunch and Poster Presentation for students and faculty members in the afternoon session. The Governing body has approved this discussion.

6. Curbing of ragging in the institute:

The chairman of the Governing body explained the menace of ragging has been satisfactorily controlled in the institute and there is not even a single case reported against this evil practice during the current academic year. The steps taken by us are very effective and could not be violated. We have formed various committees with the senior members, who used to take care internally and externally, putting vigilance at all vulnerable points.

Beside above, we have displayed pamphlets in bold letters, enlightening the drastic punishments, including expulsion and rustication from the college, if anybody venture indiscreetly, and indulge himself with fresher's in a way which constitute misbehavior. Due to persistent efforts, by the staff and management, the institute is bearing a stamp of discipline which is also free from ragging.

The Governing body of the institute has approved this note.

7. Progress on the NAAC Accreditation



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The chairman of the Governing body explained that already we have submitted SSR and also cleared the queries for Data Verification. Our Institution has Passed the Prequalification and we have paid the 2nd level payment & logistics advance payment. The Governing body has approved this agenda

8. Placement Drive for the Academic Year 2022-23

The Chairman has explained this item that our institution has conducted PLACEMENT DRIVE in Association with Sai Parental Ltd on 25.04.2023. Twenty (20) final year students has attended this placement drive and Eleven (11) students were recruited and joined in their jobs with the package of 2.16 L per anum. The Governing body has approved this minute.

9. Industrial training for the academic year 2023-24

The Chairman of the Governing body has explained that As a part of curriculum, in final year of B.Pharmacy students should undergo Industrial Training for the minimum period of three weeks. In this regard we have taken permission from 1. Bell Pharmaceuticals, Hyderabad and Veco Labs Pvt Ltd., Industries Ltd Medchal. The Governing body has approved this note.

10. Publishing of Research Papers

The chairman of the Governing body explained that the faculty members and students are encouraged to publish the research papers and PG research work every year. The Governing body has approved this note.

11. Recruitment of New faculty members to fulfill the vacancies

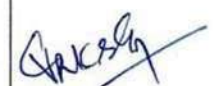
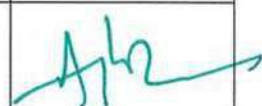
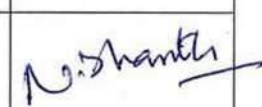
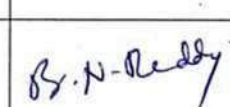
The chairman of the Governing body has explained that, recently Head of the Department, Department of Pharmacy has left the college and two faculty members left the institution for their higher studies, so in order to fulfill the vacancies raised, we have recruited Dr.V.Ravi Krishna, M.Pharm.Ph.D as HoD, Dept.of Pharmaceutics. The Governing body has approved this agenda

12: Conducting extracurricular activities

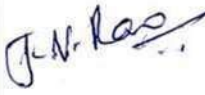
The chairman of the Governing body has explained that, as like every year, this year also planned to organize Extra curriculum activities like Graduation Day, Sports meet, National Pharmacist Day, National Pharmacy week celebrations etc., The Governing body has approved this agenda

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GOVERNING BODY MEMBERS

S.No.	Name of the	DESIGNATION	Governing Body	SIGNATURE
1	A.Prabhakar Reddy	General Secretary Samaikhya Educational Society	Chairman	
2	Ch.Anand	Vice-President Samaikhya Educational Society	Member	
3	Smt.G.Sirija	Treasurer Samaikhya Educational Society	Member	
4	P.Goverdhan Reddy	Member Samaikhya Educational Society	Member	
5	Dr.V.Ravi Krishna	Associate Professor Unity College of Pharmacy	Member	
6	Dr.K.Shahu Chathrapathi	JNTUH Nominee	Member	
7	Dr.Ampati Srinivas	Principal Unity College of Pharmacy	Member Secretary	
8	Dr.B.Nishanth Reddy	Doctor	Member (Eminent Professional)	
9	Mr.B.Narayana Reddy	Advocate	Member (Eminent Professional)	


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S.No.	Name of the	DESIGNATION	Governing Body	SIGNATURE
10	Dr.M.Sreenivasa Reddy	Principal, Vaageshwari College of Pharmacy (From JNTUH Affiliated College)	Member (Academic)	
11	Dr.J.Venkateshwar Rao	Principal & Professor Thalla Padmavathi College of Pharmacy Urus, Warangal (From KU Affiliated College)	Member (Academic)	
12	Mr.S.Amarnath	Senior Faculty Unity College of Pharmacy	Member	
13	Mr.Md.Ismail	Senior Faculty Unity College of Pharmacy	Member	
14	Mrs.A.Priyanka	Senior Faculty Unity College of Pharmacy	Member	
15	Mr. I. Rajeev	Senior Faculty Unity College of Pharmacy	Member	


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Name of the Subject: **MEDICINAL CHEMISTRY III**

Prescribed Hours: **Theory** : 3 Hrs. /Week

Practical : 3 Hrs./Week

Scheduled Date: 18-03-2024 to 03-08-2024

Reference Books: WILSON AND GISVOLD BOOK

FOYES

BURGERS MEDICINAL CHEMISTRY

S.NO	Assignment MID I	Remarks
1	Write the mechanism of action and SAR of Tetracyclines.	A ⁺ ,A,B ⁺ ,B,C
2	Explain in detail about Aminoglycoside antibiotics.	A ⁺ ,A,B ⁺ ,B,C
3	Discuss the Etiology of Malaria.	A ⁺ ,A,B ⁺ ,B,C
4	Give the SAR and uses of Macrolide antibiotics.	A ⁺ ,A,B ⁺ ,B,C



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S.NO	Assignment MID II	Remarks
1	Classify Antiviral agents synthesis MOA and uses of Acyclovir.	A ⁺ ,A,B ⁺ ,B,C
2	Write the structure and uses of Ofloxacin, Methanamine, Amantadine and Zidovidine.	A ⁺ ,A,B ⁺ ,B,C
3	Classify Antifungal agents synthesis MOA and uses of Miconazole and Tolnalfate.	A ⁺ ,A,B ⁺ ,B,C
4	Write the SAR of Sulphonamides, synthesis and uses of Sulphacetamide	A ⁺ ,A,B ⁺ ,B,C



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COURSE FILE

MEDICINAL CHEMISTRY-III ACADAMIC YEAR 2023-2024 B.PHARMACY III-II SEM

BY
P.NAGARAJU.
Assistant Professor.
Department of Pharmaceutical Chemistry.




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Name of the Subject: MEDICINAL CHEMISTRY III.

Important questions

B Pharm-III Year II sem.

1. Define antibiotics? Classify them with examples. Write a note on beta lactamase inhibitors.
2. Define antimalarial agents and classify them with examples. Give the mechanism of action and outline the synthesis of chloroquine.
3. Define and classify Sulphonamides with examples. Write the SAR and chemistry of sulpha drugs. Write the synthesis of Trimethoprim.
4. What are beta lactum antibiotics? Classify then with structural examples. Write a note on chemistry and degradation of beta lactum antibiotics.
5. Define anthelmintics? Classify them with structural examples. Give the synthesis of diethyl carbamazine citrate and mebendazole.(2+4+4)
6. Define and classify antimalarial agents with examples. Write the mechanism and synthesis of chloroquine.
7. What are beta lactum antibiotics? Give the degradation products of penicillins. Write a note on beta lactamase inhibitors.
8. What are antimalarial drugs? Explain the life cycle of malaria. Write the SAR of, (i). 9-amino quinolines (ii). 7-chloro 4-amino quinolines.
9. Define and classify sulphonamides. Give the SAR and chemistry of sulphonamides. Write the synthesis of sulphamethoxazole.
10. Write the structure and uses of three drugs each from cephalosporins and tetracyclins. Discuss in detail SAR of tetracyclines.
11. What are antimalarial agents? Classify them with examples. Give the mechanism of action of quinolines and outline the synthesis of Pamaquine.
12. What are therapeutic agents? Classify sulphonamides with examples. Outline the synthesis of Trimethoprim and Sulphamethoxazole.
13. Define antimalarials? Give the mechanism of action and SAR of quinolines and its analogues. Give the synthesis of Chloroquine.
14. What are anthelmintics? Classify with suitable examples. Outline the synthesis and mechanism of action of Mebendazole.
15. What are beta lactamase antibiotics? Give the two degradation products of penicillins and cephalosporins. Write a note on beta lactamase inhibitors.
16. Write four structures of cephalosporin class antibiotics. Write a note on beta lactamase inhibitors and SAR of tetracyclines.
17. What are antimalarial drugs? Write the malarial life cycle and different drugs acting on the different stages. Write the SAR of quinolines.

18. Classify sulphonamides with suitable examples. Explain the SAR among antibacterial sulphonamides. Give the synthesis of Sulphacetamide and Sulfamethoxazole.
19. What are antifungal agents? Describe in detail about polyene antifungal agents.
20. Classify antimalarial agents. Describe the life cycle of malaria.
21. What are antibiotics? Classify with examples. Discuss the SAR & MOA of tetracyclines.
22. Classify antimalarial agents with suitable examples. Outline the synthesis of chloroquine.
23. Discuss in detail about polyene antibiotic antifungal agents. Write the synthesis of sulfamethoxazole.
24. Define antibiotics? Classify them with examples? Discuss the chemistry and mechanism of action of amino glycoside antibiotics.
25. What are antibiotics? Classify them with examples. Write a note on lactamase inhibitors.
26. What are antimalarial agents? Classify them with examples. Give the mechanism of action and outline the synthesis of Pamaquine.
27. Define and classify Sulphonamides with examples. Write the SAR and chemistry of sulpha drugs.
28. What are beta lactamase antibiotics? Give the degradation products of penicillins. Outline the chemistry and synthesis of Chloramphenicol.
29. A) What are antimalarial drugs? explain the life cycle of malaria.
B) Outline the synthesis of Pamaquine and Chloroquine.
30. What are sulphonamides? Classify them with and comment on combination therapy of Trimethoprim and Sulphamethoxazole.



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PS609: MEDICINAL CHEMISTRY III LAB

B.Pharm.III Year IISem.

L/T/P/C

0/0/4/2

LIST OF EXPERIMENTS

Preparation of drugs and intermediates

- a. Sulphanilamide
- b. 7-Hydroxy, 4-methyl coumarin
- c. Chlorobutanol
- d. Triphenyl imidazole
- e. Tolbutamide
- f. Hexamine

2. Assay of drugs

- a. Isonicotinic acid hydrazide
- b. Chloroquine
- c. Metronidazole
- d. Dapsone
- e. Chlorpheniramine maleate
- f. Benzyl penicillin

3. Preparation of medicinally important compounds or intermediates by Microwave irradiation Technique

4. Drawing structures and reactions using chem draw.

5. Determination of physicochemical properties such as logP, clogP, MR, Molecular weight, Hydrogen

bond donors and acceptors for class of drugs course content using drug design software Drug



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likeliness screening.

Recommended Books (Latest Editions)

1. Wilson and Giswold's Organic medicinal and Pharmaceutical Chemistry.
2. Foye's Principles of Medicinal Chemistry.
3. Burger's Medicinal Chemistry, Vol I to IV.
4. Introduction to principles of drug design- Smith and Williams.
5. Remington's Pharmaceutical Sciences.
6. Martindale's extra pharmacopoeia.
7. Organic Chemistry by I.L. Finar, Vol. II.
8. The Organic Chemistry of Drug Synthesis by Lednicer, Vol. 1-5.
9. Indian Pharmacopoeia.
10. Text book of practical organic chemistry- A.I.Vogel.



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B. Pharmacy- III-II sem
Sub: Medicinal chemistry-III

Mid- I Question paper

A.Y. 2023- 2024
Time of exam: FN

S.No	Question	Marks	CO	BTL
1.	1) Write the SAR of beta lactum inhibitors and Cephalosporins.	5	C601.1	Remember
2.	2) Define and Classify Macrolide antibiotics and synthesis of Chloramphenicol.	5	C601.1	Remember
3.	3) Discuss MOA and Chemical degradation of Pencillins.	5	C601.2	Apply
4.	4) Write MOA of Quinolines and Synthesis and uses of Chloroquine and Pamaquine.	5	C601.3	Understand

Answer any two Questions:

2X5=10M

Prepared by

Approved by


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MID I OBJECTIVE PAPER.

MULTIPLE CHOICE QUESTIONS

- 11) Benzyl penicillin is the chemical name of ()
a) Pencillin V b) Penicillin F c) Penicillin G d) All of the above
2. Chemically Tetracycline is derivative is . ()
a) Purine b) Pyrimidine c) Phenanthrene d) Octahydronaphthalene.
3. Which of the following drug is a prodrug ()
a) Nimesulide b) Indomethacin c) Diclofenac d) Nabumetone
4. Which is most potent drug is ()
a) Streptomycin b) Gentamicin c) Amikacin d) kanamycin.
5. In 1945 WHO elucidated the chemical structure of penicillin()
a) D. Hodgkin's b) Alexander Fleming c) Sheehan and Ferris d) Florey & co workers
6. Example of Bioprecursors drug is ()
a) Phenylbutazone b) Salbutamol c) Ampicillin d) prednisolone
7. Macrolide antibiotics are obtained from ()
a) Lactobacillus b) Clostridium c) Streptomyces nodosus d) Streptomyces erythraeus
8. Pencillin V drug is example of ()
a) Amino penicillins b) Penicillinase resistant c) Carboxypenicillins d) Natural penicillins
9. Streptomycin was discovered in the year ()
a) 1940 b) 1943 c) 1946 d) 1948.
10. Drug of choice for Malaria in pregnancy is ()
a) Chloroquine b) Primaquine c) Mefloquine d) Quinine.

FILL IN THE BLANKS

11. Structure of Oxytetracycline.....
12. Define Prodrugs.....
13. Example of Monobactam antibiotic is
14. Chemically Cephalosporin is
15. 2,4 Diaminopyrimidine derivative is
16. can be given in Renal toxicity.
17. Malaria is caused by
18. Tetracycline is contraindicated in
19. Aminoglycoside drug used orally is
20. Gametocidal antimalarial drug is


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B. Pharmacy- III-II sem
Sub: Medicinal chemistry-III

Mid- II Question paper

A.Y. 2023- 2024
Time of exam: FN

S.No	Question	Marks	CO	BTL
1.	a)List out Synthesis and uses of warfarin and tolbutamide. b) Write the structure and uses of menadione and acetamenadione	2.5 2.5	C601.3	Understand
2.	a)Discuss the drugs used in treatment of Oral contraceptives. b)Write the structure and uses of Testosterone and Progesterone	2.5 2.5	C601.4	Understand
3.	a)Define and classify Antidiabetic agents. MOA of sulfonyl ureas. b)Discuss the Insulin and its preparations..	2.5 2.5	C601.5	Remember
4.	a List out Synthesis and uses of Benzocaine and Procaine b) Explain MOA and SAR of Local anesthetics.	2.5 2.5	C601.5	Analyze

Prepared by

In-charge

Approved by
IQAC


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MID II OBJECTIVE PAPER

- 1) Local anesthetics are ()
a. Weak acids b. Weak bases c. Salts d. All of the above.
- 2) Aromatic ring in Local anesthetics increases ()
a. Lipophilicity b. Hydrophilicity c. Hydrophobicity d. Metabolism.
- 3) A chain of Insulin is composed of ()
a. 20 Amino acids b. 30 Amino acids c. 21 Amino acids d. 31 Amino acids
- 4) Diabetes is a disease ()
a. Exogenic b. Endogenic c. Both A and B d. Endocrinochronic.
- 5) How many 6 member ring present in steroidal skeleton is ()
a. 4 b. 5 c. 6 d. 8
- 6) Natural steroid is a ()
a. Oestrone b. Oestrone . c. Oestradiol d. All of the Above
- 7) Thyroxine hormone is used in ()
a. Hypothyroidism b. Hyperthyroidism c. Thyroid d. Antithyroid.
- 8) Digoxin is not indicated ()
a. Atrial flutter b. Atrial fibrillation c. High output failure d. All of the above.
- 9) Endothelin Receptor Antagonist is ()
a. Digoxin b. Digitoxin c. Probuco d. Tezosentan
- 10) Fused rings in stereochemistry has ()
a. cis b. trans c. Aliphatic d. Aromatic.

II. Fill in the Blanks

11. Structure of Metformin
12. Basic nucleus of Steroid is
13. Hormone response elements complex formed in ----- .
14. Prednisolone is used as
15. Long acting corticosteroid is.....
16. Examples of Glucosidase inhibitor is.....
17. Most Local anesthetics consists of.....
18. The starting product for synthesis of Dibucaine is


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19. IUPAC name of Warfarin is

20 . Factor II is -----



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PS601: MEDICINAL CHEMISTRY – III

B.Pharm. III Year II Sem.

L T/P/ C

3 1/0/ 4

Course Objectives: This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasis on modern techniques of rational drug design like quantitative structure activity relationship (QSAR), Prodrug concept, combinatorial chemistry and Computer aided drug design (CADD). The subject also emphasizes on the chemistry, mechanism of action, metabolism, adverse effects, Structure Activity Relationships (SAR), therapeutic uses and synthesis of important drugs.

Course Outcomes: Upon completion of the course student shall be able to

- Understand the importance of drug design and different techniques of drug design.
- Understand the chemistry of drugs with respect to their biological activity.
- Know the metabolism, adverse effects and therapeutic value of drugs.
- Know the importance of SAR of drugs.

Study of the development of the following classes of drugs, Classification, mechanism of action, uses of drugs mentioned in the course, Structure activity relationship of selective class of drugs as specified in the course and synthesis of drugs superscripted by (*)

UNIT – I

10 Hours

Antibiotics:

Historical background, Nomenclature, Stereochemistry, Structure activity relationship, Chemical degradation classification and important products of the following classes.

Beta-Lactam antibiotics: Penicillin, Cephalosporins, Beta-Lactamase inhibitors, Monobactams

Aminoglycosides: Streptomycin, Neomycin, Kanamycin

Tetracyclines: Tetracycline, Oxytetracycline, Chlortetracycline, Minocycline, Doxycycline

UNIT – II

10 Hours

Antibiotics:

Historical background, Nomenclature, Stereochemistry, Structure activity relationship, Chemical degradation, classification and important products of the following classes.

Macrolide: Erythromycin Clarithromycin, Azithromycin.

Miscellaneous: Chloramphenicol*, Clindamycin.


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Prodrugs: Basic concepts and application of prodrugs design.

Antimalarials: Etiology of malaria.

Quinolines: SAR, Quinine sulphate, Chloroquine*, Amodiaquine, Primaquine phosphate, Pamaquine*, Quinacrine hydrochloride, Mefloquine.

Biguanides and dihydro triazines: Cycloguanil pamoate, Proguanil.

Miscellaneous: Pyrimethamine, Artesunate, Artemether, Atovaquone.

UNIT – III

10 Hours

Anti-tubercular Agents

Synthetic anti tubercular agents: Isoniazid*, Ethionamide, Ethambutol, Pyrazinamide, Para amino salicylic acid.*

Anti-tubercular antibiotics: Rifampicin, Rifabutin, Cycloserine Streptomycin, Capreomycin sulphate.

Urinary tract anti-infective agents

Quinolones: SAR of quinolones, Nalidixic Acid, Norfloxacin, Enoxacin, Ciprofloxacin*, Ofloxacin, Lomefloxacin, Sparfloxacin, Gatifloxacin, Moxifloxacin **Miscellaneous:** Furazolidine, Nitrofurantoin*, Methanamine.

Antiviral agents: Amantadine hydrochloride, Rimantadine hydrochloride, Idoxuridine trifluoride, Acyclovir*, Gancyclovir, Zidovudine, Didanosine, Zalcitabine, Lamivudine, Loviride, Delavirdine, Ribavirin, Saquinavir, Indinavir, Ritonavir.

UNIT – IV

08 Hours

Antifungal agents:

Antifungal antibiotics: Amphotericin-B, Nystatin, Natamycin, Griseofulvin.

Synthetic Antifungal agents: Clotrimazole, Econazole, Butoconazole, Oxiconazole, Tioconazole, Miconazole*, Ketoconazole, Terconazole, Itraconazole, Fluconazole, Naftifine hydrochloride, Tolnaftate*.

Anti-protozoal Agents: Metronidazole*, Tinidazole, Ornidazole, Diloxanide, Iodoquinol, Pentamidine Isethionate, Atovaquone, Eflornithine.

Anthelmintics: Diethylcarbamazine citrate*, Thiabendazole, Mebendazole*, Albendazole, Niclosamide, Oxamniquine, Praziquantel, Ivermectin.

Sulphonamides and Sulfones

Historical development, chemistry, classification and SAR of Sulfonamides:

Sulphamethizole, Sulfisoxazole, Sulphamethizine, Sulfacetamide*, Sulphapyridine, Sulfamethoxazole*, Sulphadiazine, Mefenide acetate, Sulfasalazine.


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Folate reductase inhibitors: Trimethoprim*, Cotrimoxazole.

Sulfones: Dapsone*.

UNIT – V

07 Hours

Introduction to Drug Design

Various approaches used in drug design.

Physicochemical parameters used in quantitative structure activity relationship (QSAR) such as partition coefficient, Hammett's electronic parameter, Taft's steric parameter and Hansch analysis.

Pharmacophore modeling and docking techniques.

Combinatorial Chemistry: Concept and applications of combinatorial chemistry: solid phase and solution phase synthesis.

Recommended Books (Latest Editions)

1. Wilson and Giswold's Organic medicinal and Pharmaceutical Chemistry.
2. Foye's Principles of Medicinal Chemistry.
3. Burger's Medicinal Chemistry, Vol I to IV.
4. Introduction to principles of drug design- Smith and Williams.
5. Remington's Pharmaceutical Sciences.
6. Martindale's extra pharmacopoeia.
7. Organic Chemistry by I.L. Finar, Vol. II.
8. The Organic Chemistry of Drug Synthesis by Lednicher, Vol. 1-5.
9. Indian Pharmacopoeia.
10. Text book of practical organic chemistry- A.I.Vogel.


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LESSON PLAN

Academic Year: 2023 – 2024.

Class: I11

Course: B.Pharmacy

Name of the Subject: **MEDICINAL CHEMISTRY III.**

Prescribed Hours: **Theory** : 3 Hrs. /Week **Practical** : 3 Hrs./Week

Scheduled Date: 18-03-2024 to 03-08-2024

Reference Books: WILSON AND GISWOLD'S.

FOYE'S PRINCIPLES OF MEDICINAL CHEMISTRY

BU RGER'S MEDICINAL CHEMISTRY, VOL I TO IV.

S.NO	CHAPTER NAME	TOPIC	NO.OF HOURS REQUIRED	NAME OF THE TEACHER
1	Antibiotics:	Historical background, Nomenclature, Stereochemistry, Structure activity relationship, Chemical degradation classification and important products of the following classes.	6hrs	P.NAGARAJU
2	Beta-Lactam antibiotics	Penicillin, Cephalosporins, Beta-Lactamase inhibitors, Monobactams	4hrs	P.NAGARAJU
3	Aminoglycosides	Streptomycin, Neomycin, Kanamycin	2hrs	P.NAGARAJU
4	Tetracyclines	Tetracycline, Oxytetracycline, Chlortetracycline, Minocycline, Doxycycline	2hrs	P.NAGARAJU
5	Antibiotics:	Historical background, Nomenclature, Stereochemistry, Structure activity relationship	2hrs	P.NAGARAJU
		Chemical degradation, classification and important products of the following classes	2hrs	P.NAGARAJU
6	Macrolide:	Erythromycin Clarithromycin, Azithromycin	1hr	P.NAGARAJU
7	Miscellaneous:	Chloramphenicol*, Clindamycin.	1hr	P.NAGARAJU
8	Prodrugs:	Basic concepts and application of prodrugs design.	1hr	P.NAGARAJU
9	Antimalarials	Etiology of malaria.	1hr	P.NAGARAJU
10	Quinolines	SAR, Quinine sulphate, Chloroquine*, Amodiaquine, Primaquine phosphate, Pamaquine*, Quinacrine hydrochloride, Mefloquine	3hrs	P.NAGARAJU
11	Biguanides and dihydro triazines	Cycloguanil pamoate, Proguanil	4hrs	P.NAGARAJU
12	Miscellaneous:	Pyrimethamine, Artesunate, Artemether, Atovaquone	2hrs	P.NAGARAJU
13	Anti-tubercular Agents	Isoniazid*, Ethionamide, Ethambutol, Pyrazinamide, Para amino salicylic acid.*		P.NAGARAJU

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14	Anti-tubercular antibiotics	Rifampicin, Rifabutin, Cycloserine Streptomycin, Capreomycin sulphate	3hrs	P.NAGARAJU
15	Urinary tract anti-infective agents	SAR of quinolones, Nalidixic Acid, Norfloxacin, Enoxacin, Ciprofloxacin*, Ofloxacin, Lomefloxacin, Sparfloxacin,	3hrs	P.NAGARAJU
16	Miscellaneous:	Furazolidine, Nitrofurantoin*, Methanamine	2hrs	P.NAGARAJU
17	Antiviral agents:	Amantadine hydrochloride, Rimantadine hydrochloride, Idoxuridine trifluoride, Acyclovir*, Gancyclovir, Zidovudine, Didanosine, Zalcitabine, Lamivudine, Loviride, Delavirding, Ribavirin, Saquinavir, Indinavir, Ritonavir.	4hrs	P.NAGARAJU
18	Antifungal agents:	Amphotericin-B, Nystatin, Natamycin, Griseofulvin	2hrs	P.NAGARAJU
19	Synthetic Antifungal agents:	Clotrimazole, Econazole, Butoconazole, Oxiconazole Tioconazole, Miconazole*, Ketoconazole, Terconazole, Itraconazole, Fluconazole, Naftifine hydrochloride, Tolnaftate*.	4hrs	P.NAGARAJU
20	Anti-protozoal Agents:	Metronidazole*, Tinidazole, Ornidazole, Diloxanide, Iodoquinol, Pentamidine Isethionate, Atovaquone, Eflornithine	3hrs	P.NAGARAJU
21	Anthelmintics:	Diethylcarbamazine citrate*, Thiabendazole, Mebendazole*, Albendazole, Niclosamide, Oxamniquine, Praziquantal, Ivermectin	3hrs	P.NAGARAJU
22	Sulphonamides and Sulfones	Historical development, chemistry, classification and SAR of Sulfonamides: Sulphamethizole, Sulfisoxazole, Sulphamethizine, Sulfacetamide*, Sulphapyridine, Sulfamethoxazole*, Sulphadiazine, Mefenide acetate, Sulfasalazine	4hrs	P.NAGARAJU
23	Folate reductase inhibitors: Sulfones:	Trimethoprim*, Cotrimoxazole. Dapsone*	2hrs	P.NAGARAJU
24	Introduction to Drug Design	Various approaches used in drug design. Physicochemical parameters used in quantitative structure activity relationship (QSAR) such as partition coefficient,	4hrs	P.NAGARAJU
		Hammett's electronic parameter, Taft's steric parameter and Hansch analysis. Pharmacophore modeling and docking techniques.	2hrs	P.NAGARAJU
25	Combinatorial Chemistry:	Concept and applications of combinatorial chemistry: solid phase and solution phase synthesis	2hrs	P.NAGARAJU

INTRODUCTION

- ✓ Unity College of Pharmacy, Raigir, Bhongir, Yadadhri Bhuvanagiri, Telangana was begun in 2007 - 08 by Samaikya Educational Society, Hyderabad to impart quality Pharmacy education to students coming from rural areas and equip them with the necessary competencies to meet the growing global demands of the pharmaceutical industry, academia, research, and patient care areas.
- ✓ The college is situated in Raigir Village, rural South Telangana on Hyderabad – Warangal National High Way No.163 in 02 acres of lush green serene environment. The college is approved by the Pharmacy Council of India (PCI), New Delhi and the Government of Telangana and is affiliated with Jawaharlal Nehru Technological University (JNTU), Hyderabad.
- ✓ The institution offers a 4-year bachelor's degree in Pharmacy (B. Pharm) and a 2-year Master's degree in Pharmacy (M.Pharm).

Vision

- ✓ Unity College of Pharmacy, in discussion with all its stakeholders have written the following vision.
- ✓ To impart quality education and training at the graduate and postgraduate levels to prepare competent pharmacists to meet the global healthcare challenges in the field of pharmaceutical sciences and pharmacy practice.

Mission

- ✓ To offer value-based teaching, and motivation for innovative research in pharmaceutical sciences and pharmacy practice.
- ✓ To use ICT-enabled teaching models for fostering effective learning. To assess the students' learning through quizzes, summative and objective types of examinations.
- ✓ To assist students to design need-based research projects and help them to complete them successfully and publish the findings in peer-reviewed research journals.



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Program Educational Objectives (PEOs)

PEO 1: To provide graduates with profound knowledge in various fields of Pharmaceutical Sciences according to the needs of Pharmaceutical industry, community and Hospital Pharmacy with necessary skillset.

PEO 2: Graduates will be able to acquire theoretical and practical concepts in Pharmacodynamics, Pharmacokinetics, Drug properties, synthesis, molecular modelling, formulation & development, analytical aspects in research and extend this knowledge to create novel Herbal & Synthetic Pharmaceutical products for the benefit of life.

PEO 3: The philosophy of the institute is to prepare students to excel in postgraduate programmes and also to succeed in Pharmaceutical industry or in the profession wherever the student chose through innovative teaching methodologies that engage students in self learning.

PEO 4: Graduates will be prepared to become better communicators and leaders of Pharma and health sectors with ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate issues in Pharmaceutical Sciences to a broader social context.

PEO 5: Graduates will be equipped with integrity and ethical values and update their knowledge by organizing/attending the workshops, seminars and conferences at National and International level

PEO 6: Graduates of the program will be able to evaluate pros and cons, benefits and deficiencies of the matter they studied in pharmaceutical technology and ideology they observed in the field of Pharmaceutical Sciences. Consistency of PEO



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PROGRAMME OUTCOMES

The program outcomes for a course on instrumental methods of analysis may include:

1. Understanding the principles of various instrumental methods of analysis such as spectroscopy, chromatography, electroanalytical methods, and mass spectrometry.
2. Knowledge of the types of instrumentation used in modern analytical chemistry and their applications.
3. Understanding of the advantages and limitations of various instrumental methods of analysis and their selection for a given analytical problem.
4. Familiarity with the techniques for calibration, validation, and quality control of analytical instruments.
5. Ability to interpret analytical data and draw conclusions about the chemical properties and composition of samples.
6. Ability to design and carry out analytical experiments using various instrumental methods.
7. Knowledge of safety protocols and ethical considerations when working with analytical instruments.
8. Ability to communicate scientific results effectively through written reports and oral presentations.
9. Awareness of the latest developments in instrumental methods of analysis and their applications in research and industry.
10. Ability to work effectively in a team and collaborate with others in an analytical chemistry laboratory setting.



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LESSON PLAN

Academic Year: 2023 – 2024

Class: IV YEAR II SEMESTER

Course: B. Pharm

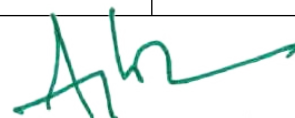
Name of the Subject: **ADVANCED INSTRUMENTATION TECHNIQUES**

Prescribed Hours: **Theory**: 3 Hrs. /Week

Scheduled Date: 04-01-2024 to 09-05-2024

Reference Books: YR SHARMA
GURUDEEP CHETWAL
BK SHARMA

S.NO	CHAPTER NAME	TOPIC	NO.OF HOURS REQUIRED	NAME OF THE TEACHER
1	Nuclear Magnetic Resonance spectroscopy	Principles of H-NMR and C-NMR, chemical shift, factors affecting chemical shift.	3 hours	S.Amarnath
2	Nuclear Magnetic Resonance spectroscopy	coupling constant, Spin - spin coupling, relaxation, instrumentation and applications.	3 hours	S.Amarnath
3	Mass Spectrometry	Principles, Fragmentation, Ionization techniques - Electron impact, chemical ionization, instrumentation and applications.	4 hours	S.Amarnath
4	Thermo Gravimetric Analysis (TGA)	Principle, instrumentation and applications	2 hours	S.Amarnath
5	Differential Thermal Analysis (DTA)	Principle, instrumentation and applications	2 hours	S.Amarnath



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6	Differential Scanning Calorimetry (DSC	Principle, instrumentation and applications	2hours	S.Amarnath
7	X-Ray Diffraction Methods	Origin of X-rays, basic aspects of crystals. X-ray Crystallography,	2 hours	S.Amarnath
8	X-Ray Diffraction Methods	rotating, crystal technique, single crystal diffraction, powder diffraction and applications.	2 hours	S.Amarnath
9	Calibration and validation	- as per ICH and USFDA guidelines	2 hours	S.Amarnath
10	Calibration of following instruments	calibration of Electronic balance, calibration of UV-Visible spectrophotometer, calibration of IR spectrophotometer	4 hours	S.Amarnath
11	Calibration of following instruments	calibration of Fluorimeter, calibration of Flame Photometer, calibration of HPLC and GC	4 hours	S.Amarnath
12	Radio immune assay	Importance, various components, Principle, different methods, Limitation and Applications	4 hours	S.Amarnath
13	solid phase extraction	principle and procedure	2 hours	S.Amarnath
14	liquid-liquid extraction	principle and procedure	2hours	S.Amarnath
15	LC-MS/MS	Principle, instrumentation and applications	3 hours	S.Amarnath
16	GC-MS/MS	Principle, instrumentation and applications	2 hours	S.Amarnath
17	HPTLC-MS	Principle, instrumentation and applications	2 hours	S.Amarnath



Unity College of pharmacy

B. Pharmacy- IV-II Sem

Mid- I Question paper

Sub: Advanced instrumentation techniques

A.Y. 2023- 2024

Time of exam: AN

Answer any two Questions:

2X5=10M

S.No	Question	Marks	CO	BTL
1.	Write in detail instrumentation of NMR. Explain in detail factors influencing on chemical shift.	5	C807.1	Understa
2.	Give detail instrumentation of mass spectrometer. Write a note on FAB and MALDI	5	C807.1	Rememb
3.	Discus the Instrumentation & Applications of TG. Explain in detail about instrumentation of X-ray crystallography	5	C807.2	Understa
4.	Describe Validation as per USFDA guidelines.	5	C807.3	Understa

Prepared by

In- charge

Approved by

IQAC


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Unity College of pharmacy
Mid- II Question paper
B. Pharmacy- IV-II Sem
Sub: Advanced instrumentation techniques

A.Y. 2023- 2024
Time of exam: AN

S.No	Question	Marks	CO	BTL
1.	Explain about calibration of UV-Visible spectrophotometer.	5	C807.3	Understand
2.	Explain in detail about principle, process, and separation techniques of RIA.	5	C807.4	Understand
3.	Explain in detail interfaces used in GC-MS.	5	C807.5	Understand
4.	Write a short notes on factors affecting magnitude of partition coefficient.	5	C807.4	Remember

Answer any two Questions:

2X5=10M

Prepared by

In- charge

Approved by

IQAC

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Name of the Subject: **ADVANCED INSTRUMENTATION TECHNIQUES**

Prescribed Hours: **Theory** : 3 Hrs. /Week

Scheduled Date: 04-01-2024 to 09-05-2024

Reference Books: YR SHARMA
GURUDEEP CHETWAL
BK SHARMA

S.NO	Assignment topic	Remarks
1	Principle, Instrumentation & application of MS	A ⁺ ,A,B ⁺ ,B,C
2	Instrumentation, application of TGA	A ⁺ ,A,B ⁺ ,B,C
3	Calibration of HPLC & IR Spectrophotometer.	A ⁺ ,A,B ⁺ ,B,C
4	Instrumentation of GC-MS& interfaces used in HPLC-MS.	A ⁺ ,A,B ⁺ ,B,C



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COURSE FILE

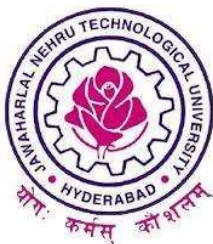
ADVANCED INSTRUMENTATION TECHNIQUES ACADAMIC YEAR 2023-2024 B.PHARMACY IV-II SEM

BY

Mr.S.Amarnath

Assistant Professor

Department of Pharmaceutical Analysis



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COURSE FILE CONTENTS

S.NO	CONTENT
1.	Cover page
2	Vision And Mission Of Institute
3	Program Educational Objectives
4	Program Outcomes
5	Syllabus Copy
6	Lesson Plan
7	Assignment Topics
8	Mid Question Papers With Scheme Of Evaluation
9	Unit Wise Important Questions
10	Previous Question Papers
11	Student performance in internal examination (Attainment)
12	Student list


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PS807: ADVANCED INSTRUMENTATION TECHNIQUES (Open Elective - IV)

B.Pharm. IV Year II Sem.

L/T/P/ C
3/1/0/ 4

Course Objectives: This subject deals with the application of instrumental methods in qualitative and quantitative analysis of drugs. This subject is designed to impart advanced knowledge on the principles and instrumentation of spectroscopic and chromatographic hyphenated techniques. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing.

Course Outcomes: Upon completion of the course the student shall be able to:

- Understand the advanced instruments used and its applications in drug analysis
- Understand the chromatographic separation and analysis of drugs.
- Understand the calibration of various analytical instruments
- Know analysis of drugs using various analytical instruments.

UNIT – I**10 Hours****Nuclear Magnetic Resonance spectroscopy**

Principles of H-NMR and C-NMR, chemical shift, factors affecting chemical shift, coupling constant, Spin - spin coupling, relaxation, instrumentation and applications

Mass Spectrometry - Principles, Fragmentation, Ionization techniques - Electron impact, chemical ionization, instrumentation and applications.

UNIT - II**10 Hours**

Thermal Methods of Analysis: Principles, instrumentation and applications of Thermogravimetric Analysis (TGA), Differential Thermal Analysis (DTA), Differential Scanning Calorimetry (DSC)

X-Ray Diffraction Methods: Origin of X-rays, basic aspects of crystals, X-ray Crystallography, rotating crystal technique, single crystal diffraction, powder diffraction and applications.

UNIT - III**10 Hours**

Calibration and validation-as per ICH and USFDA guidelines

Calibration of following Instruments

Electronic balance, UV-Visible spectrophotometer, IR spectrophotometer, Fluorimeter, Flame Photometer, HPLC and GC

UNIT – IV**08 Hours**

Radio immune assay: Importance, various components, Principle, different methods, Limitation and Applications of Radio immuno assay

Extraction Techniques: General principle and procedure involved in the solid phase extraction and liquid-liquid extraction

UNIT – V**07 Hours**

Hyphenated techniques - LC-MS/MS, GC-MS/MS, HPTLC-MS.

Recommended Books (Latest Editions):

1. Instrumental Methods of Chemical Analysis by B. K Sharma
2. Organic spectroscopy by Y. R Sharma
3. Text book of Pharmaceutical Analysis by Kenneth A. Connors
4. Vogel's Text book of Quantitative Chemical Analysis by A.I. Vogel
5. Practical Pharmaceutical Chemistry by A.H. Beckett and J.B. Stenlake
6. Organic Chemistry by I. L. Finar



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B.PHARMACY IV YEAR II SEM I MID EXAMINATIONS-MARCH-2024

ADVANCED INSTRUMENTATION TECHNIQUES

H.T.NO:

MULTIPLE CHOICE QUESTIONS

1/2X20=10M

1.spin state has high energy of nucleus []
a) β b) α c) γ d) all
2. coupling constant is between adjacent peaks []
a) distance b) distance ratio c) height d) all
3. PMR counts no. of protons by usingrule []
a) $2n$ b) n c) $n+1$ d) none of this
4. Compound containing chlorine and bromine have.....peak []
a) $M+2$ b) $M+1$ c) $M+$ d) All
5. In a magnetic analyzer ions are separated on the basis of..... values []
a) Atomic number b) m/z c) Atomic mass d) none of these
6. In DTA, chemical reaction gives rise topeak []
a) Maxima b) Minima c) Exothermic d) Endothermic
7. DSC can measure directly both the temperature and the..... []
a) Heat of reaction b) Heat of combustion c) Heat of formation d) all
8. Low energy X- rays longer than $3\text{\AA}$ are readily absorbed in..... []
a) moisture b) Air c) Electromagnetic waves d) Water
9. For the establishment of linearity, a minimum of concentrations is recommended. Other approaches should be justified . []
a) Six b) Five c) Two d) One
10. A risk assessment technique can be utilized in any quality assessment is/ are []
a) Cause and effect diagram b) FTA c) HACCP d) All

FILL IN THE BLANKS

11. ^{13}C NMR counts no of.....
12. The higher the electro negativity of the atom..... is the deshielding caused to proton.
13. Most intense peak in mass spectrum is known as.....
14. The molecular ion peak gives them..... of the compound.
15. In DTA, broad endothermic peak signify..... reactions
16. Sharp endothermic peaks give ideas of changes in..... processes
17. Technique in which a change in the weight of substance is recorded as function of temperature or time.
18. Bragg's equation is written as.....
19. The detection limit(DL) may be expressed as
20. According to CFR regulations Equipment design, size, and location included in.....



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Name of the Subject: ADVANCED INSTRUMENTATION TECHNIQUES

Important questions

B Pharm-IV Year II sem

1. Discuss chemical shift and factors influencing it. Elaborate the application of PMR spectroscopy in study of dynamic properties of organic molecules.
2. Describe the component and principle of NMR Spectrophotometer.
3. Write the principle, instrumentation and application of proton magnetic resonance.
4. What is chemical shift? How it helps in structure elucidation? Explain with illustrations.
5. Discuss principle involved in Mass spectrometry. Elaborate the different ionizer used in MS.
6. Draw a block diagram of MS. Discuss different detectors used in MS.
7. What is MS? Write a note on Mass analyzers used in MS.
8. Write the principle, instrumentation and application of MS.
9. What is TGA? Explain the principle, instrumentation and application of TGA.
10. What is DTA? Explain the principle, instrumentation and application of DTA.
11. What is DSC? Explain the principle, instrumentation and application of DSC.
12. Explain X- ray diffraction Methods.

13. Explain applications of X-ray diffraction technique.
14. What is Bragg's Law and how can it be used to identify nature of Crystals.
15. Discuss the parameters of validation as per ICH guidelines.
16. Discuss the parameters of validation as per USFDA guidelines.
17. Write in detail types of analytical procedures to be validated.
18. Explain procedure for calibration of UV Spectrophotometer.
19. Explain procedure for calibration of GC.
20. Explain procedure for calibration of HPLC.
21. Explain procedure for calibration of electronic balance.
22. What is RIA? Discuss principle, working and limitation of RIA.
23. Explain the methods of RIA.
24. Elaborate various components of RIA.
25. Explain principle involved in Solid Phase extraction.
26. Explain principle involved in Liquid- Liquid extraction.
27. Discuss choice of solvent used in Liquid- Liquid extraction.
28. Explain techniques used in Liquid- Liquid extraction.
29. Explain Instrumentation and applications of GC-MS/MS.
30. Explain Instrumentation and applications of LC-MS/MS.
31. Write in detail about HPTLC-MS technique.
32. Explain LC-MS/MS Method Development.



(Approved by AICTE, New Delhi & Affiliated to JNTU Hyd.)

Raigir (V), Bhongir (M), Nalgonda (Dt.), Ph : 08685 - 645450, 200143, Fax : 91 - 40 - 24331533

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

1. Recording of absorption spectrum of a solid in IR is carried out with..... []
A. potassium bromide B. quinine sulphate C. potassium chloride D. Both A&C
2. Acceptance criteria for calibration of UV-Visible spectrophotometer at wave length of 257is... []
A.124.5 B.144.0 C.106.5 D. 148.0
3. Which of the following is used as radio labelled antigen []
A. Iodine 131 and 125 B. Chloramine T C. Both A& B D. None of the above
4. Which is a most fair Range of P^H optimum for most of the proteins in iodination []
A. 9 B. 7.5 C. 6.2 D. 8.4
5. Continuous extraction is used when the distribution ratio is..... []
A. High B. Low C. Equal D. ALL
6. Inert solvent system generally extract..... species. []
A. Non-polar B. Polar C. Acidic D. Basic
7. The Mass analyser is used to sort ions according to their..... []
A. Weight B. height C. Charge D. Mass to charge ratio
8. The thermo spray technique depends on the thermal generation of a..... []
A. Mist B. Spray C. Particles D. Molecules
9. A jet/ orifice system is effective in removing the carrier gas by..... []
A. Effusion B. Permeability C. Diffusion D. Separation
- 10 Inert solvent system generally extract.....species []
A. Non-polar B. Polar C. Acidic D. Basic
- 11 **FILL IN THE BLANKS**
1. Frequency for calibration of column oven temperature in GC is.....
12. RIA is very sensitive technique used to measure.....of antigen without the need to use a bioassay
13. The process of extraction is more complete if it is carried out in
14. Continuous extraction is used when the distribution ratio is.....
15. Tandem mass spectrometer (MS/MS) which consist of.....scanning mass analysers separated by a collision cell
16. are the additives to the organic phase to increase solubility of extractant of the diluents.
17. The Solvent used for extraction must haveviscosity
18. The separation of sample between two immiscible phases is better as the difference between distribution ratio is.....
19. Partition coefficient K=.....
20. Liquid-Liquid extraction separate compounds/metal complexes based on their relative.....in two different immiscible liquids.

MULTIPLE CHOICE QUESTIONS



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Code No: 248AG

R17

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy IV Year II Semester Examinations, July-2021

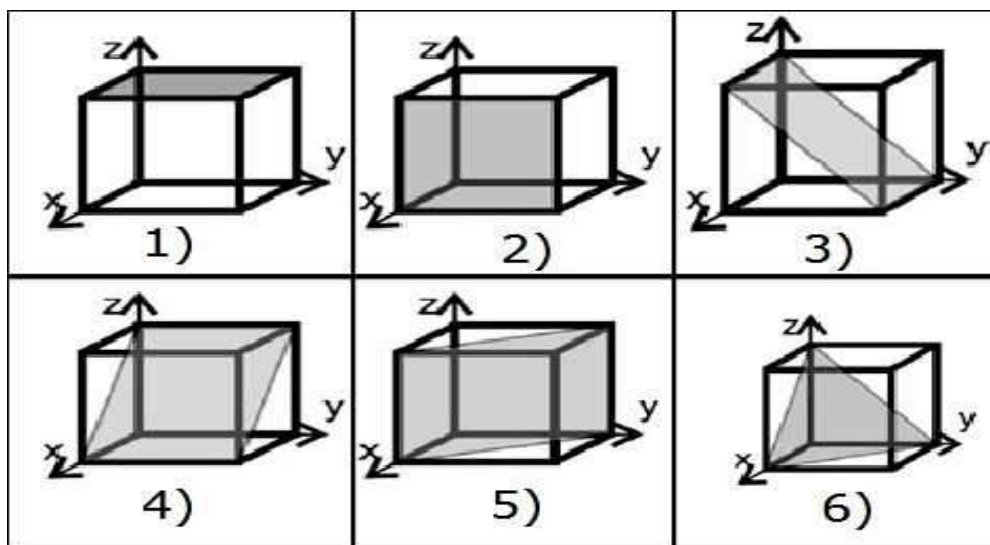
ADVANCED INSTRUMENTATION TECHNIQUES

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal
Marks**

- 1.a) Explain the theory and principle in which separation occurs based on m/e.
b) Explain the methodology of the radio immuno assay. [10+5]
- 2.a) Determine the Miller indices value for the planes (shaded region) marked in the cubic unit cell for 6 crystal structures as represented below.



- b) Explain the theory and principle of extraction technique in which traditionally Craig apparatus was used. [6+9]
- 3.a) Explain the principle of an instrumentation method in which Bragg's Law is involved.
b) List out the applications of an instrument in which fast atom bombardment is used as one of the ion source. [10+5]
4. Mention calibration parameters and Explain in detail the calibration of an instrument which works based on fluorescence phenomena. [15]
- 5.a) List out the differences between H-NMR and C-NMR.
b) How many spin states are possible for ^1H nucleus.
c) What is meant by (n+1) rule in spin-spin coupling explain with an example.
d) List out various detectors and explain in detail any two detectors of an instrumentation in which the ionization techniques are used as source. [2+1+2+10]
- 6.a) Draw a neat labelled block diagram of thermo analytical instrument which examines the mass change of a sample as a function of temperature or time.
b) Classify and explain in detail various types of validation as per ICH guidelines. [4+11]

- 7.a) Explain in detail the principle involved in a hyphenated technique in which coated plates are used as stationary phase and mention various detectors used in it.
- b) List out the applications for instrumentation technique in which chemical shifts are involved. [10+5]
8. Explain in detail various factors affecting a curve when a difference in temperature is measured between a sample and reference material when they are subjected to controlled temperature programme. [15]

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Code No: 248AG**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Pharmacy IV Year II Semester Examinations, July/August - 2022****ADVANCED INSTRUMENTATION TECHNIQUES****Time: 3 Hours****Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) What is chemical shift? Explain the factors affecting chemical shift.
b) Explain the instrumentation of NMR spectroscopy. [7+8]
- 2.a) What is Fragmentation? Discuss the fragmentation rules.
b) Explain the principle and applications of mass spectroscopy. [8+7]
- 3.a) Write the principles and applications of DTA.
b) Describe the instrumentation of Differential Scanning Calorimetry (DSC). [7+8]
- 4.a) Enumerate the basic aspects of crystals and explain the rotating Crystal techniques.
b) Describe the instrumentation of TGA. [8+7]
5. What is calibration? Write the calibration of UV-visible spectrophotometer. [15]
6. How do you calibrate HPLC? [15]
7. Write the principle, different method, limitations and applications of RIA. [15]
8. Write the principle, method and applications of the following:
a) GC-MS/MS
b) HPTLC/MS. [7+8]

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Code No: 248AG

R17

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy IV Year II Semester Examinations, September-2021

ADVANCED INSTRUMENTATION TECHNIQUES

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) How chemical shift affects the NMR spectra? Explain with relevant examples
b) Ethyl butanoate shows the molecular ion peak at m/z 116 with two characteristic peaks due to odd electron ion at m/z 88 and 60. It showed abundant ion at m/z 71. Explain its fragmentation accounting for these ions. [8+7]
- 2.a) Explain the use of TGA in decomposition studies with a relevant example.
b) What is glass transition temperature? Explain its use with relevant example.
c) List the ideal characteristics of chemical compound which is used for X-ray diffraction studies. [5+5+5]
3. Explain the principle behind the calibration of HPLC with respect to following
a) flow rate accuracy
b) system precision
c) wavelength accuracy
d) detector linearity.
e) Column oven accuracy. [3+3+3+3+3]
- 4.a) Explain the steps in the preparation of specific antibody in Radio immune assay.
b) List the precautions to be taken while doing the Radio immune assay.
c) List the factors affecting solid phase extraction. [5+5+5]
- 5.a) List the reasons for using chromatography with MS.
b) List the applications of LC-MS/MS.
c) List the features of GC-MS interface. [5+5+5]
- 6.a) List the Δ (delta) values of common solvents with respect to tetra methyl silane used in NMR spectral analysis.
b) Explain the use of 4 types of sample holders used in DSC.
c) When calibration of analytical instrument is needed? [5+5+5]
7. Explain the principle behind the calibration of double beam UV Visible spectrophotometer with respect to following
a) Wave length accuracy
b) Stray light
c) Resolution
d) Photometric accuracy
e) Noise. [3+3+3+3+3]
- 8.a) Explain the conditions for combination in hyphenated techniques.
b) Explain the principle and a brief procedure for the determination of serum calcium by radiometric analysis method by radio immune assay. [6+9]


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RAIGIRI (V), BHONGIR (M),
YADADRI BHONGIR (T)

Code No: 248AG

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy IV Year II Semester Examinations, September - 2022

ADVANCED INSTRUMENTATION TECHNIQUES

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Discuss in detail various ionization techniques employed in the Mass Spectroscopy.
b) Explain instrumentation of Mass Spectrometer and its applications. [8+7]
- 2.a) Write the difference between H-NMR and C-NMR.
b) Discuss the factors affecting Shielding and de-shielding in NMR Spectra.
c) What is chemical shift? Discuss the various factors affecting chemical shift. [5+5+5]
- 3.a) Discuss the principle and working of DTA.
b) Discuss the applications of TGA and DSC. [7+8]
- 4.a) Enlist the different X-ray Diffraction methods and explain the applications of X-ray diffraction.
b) Write the principle involved in the rotating crystal technique in X-ray diffraction spectroscopy. [8+7]
- 5.a) Explain the validation parameter for electronic balance.
b) Explain the methodology involved in the qualification of fluorimeter. [7+8]
- 6.a) Define validation and explain different type of method validation.
b) Discuss background and principles of Bio analytical method validation as per USFDA regulations. [8+7]
- 7.a) Write the importance of Radio immune assay.
b) Describe the principle and procedure involved in the solid phase extraction. [7+8]
- 8.a) Discuss the sampling technique of LC-MS and GC-MS.
b) Give the importance and application of HPTLC-MS. [8+7]

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