



ADITYA COLLEGE OF PHARMACY

Aditya Nagar, ADB Road, Surampalem – 533437



1. Weak Learners Tracking Analysis

We identify the weak learners in the M pharmacy subjects at the semester beginning and track the performance of the student in regular intervals during the conduction of course and remedial classes have been conducted.

AY: 2023-2024

			NUMBER OF WEAK LEARNERS		
S. No.	Faculty Name	COURSE NAME	AFTER 1 INTERNAL EXAM	AFTER 3 WEEKS INSTRUCTION	AFTER 2 INTERNAL EXAM
	I-I IPHARMACOLOGY				
1	DR. K. RAVI SHANKAR	PHARMACOLOGY PRACTICAL -3	1	-	-
2	S. AMALA	PHARMACOLOGY PRACTICAL -4	-	-	-



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Aditya Nagar, ADB Road, Surampalem – 533437



2.1 Advanced Learners Tracking Analysis

We identify the advanced learners in the M pharmacy subjects at the semester beginning and track the performance of the student in regular intervals during the conduction of course training programs and technical events have been conducted.

AY: 2023-2024

			NUMBER OF ADVANCED LEARNERS		
S. No	Faculty Name	COURSE NAME	AT SEMESTER START	AFTER 3 WEEKS INSTRUCTION	AFTER 1 INTERNAL EXAM
	I- II Pharmacology				
1	DR.K. RAVI SHANKAR	ADVANCED PHARMACOLOGY -II	3	4	5
2	S.AMALA	PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS -II	3	3	5
3	DR.K. RAVI SHANKAR	PRINCIPLES OF DRUG DISCOVERY	3	3	5
2	N.DIVYA &K. RAMA KRISHNA	CLINICAL RESEARCH AND PHARMACOVIGILANCE	3	4	6



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2.2 List of Weak Learners in a Course

AY: 2023-24

Class: I M.Pharmacy

Basis: Secured < 50%

"

S. No.	Roll. No.	Student Name
1	233H1S0601	M. SAI MANOGNA



Class Teacher

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2.2.1 List of Advanced Learners in a Course

AY: 2023-24

Class: III M.Pharmacy

Basis: Secured > 80%

S. No.	Roll. No.	Student Name
1	233H1S0603	D.PRIYANKA
2	233H1S0604	K.RATNAKAR
3	233H1S0605	N.SURYA MAHALAKSHMI
4	233H1S0606	SAMRAT DATTA
5	233H1S0607	S.SURYA KIRAN
6	233H1S0609	V.KEERTHANA

Class Teacher



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Circular and Schedule of Advanced Learner classes

Date: 21/10/2023

CIRCULAR

All the faculty of **I M. PHARMACY, PHARMACOLOGY** are required conducting the remedial classes for **Advanced learners** from 21/10/2023. The timetable is attached below.

TIMETABLE FOR ADVANCED LEARNERS 2023-2024

DURATION: 21/10/2023 to 11 /12/2023

Day	Timing	Name of the Subject	Name of the Faculty	Signature of the Faculty
Monday	4.15 PM to 5.00 PM	ADVANCED PHARMACOLOGY -I	DR.K. RAVI SHANKAR	
Tuesday		PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS -I	V. BHARGAVI	
Wednesday		CELLULAR AND MOLECULAR PHARMACOLOGY	S.AMALA	
Thursday		MODERN PHARMACEUTICAL AND ANALYTICAL TECHNIQUES	N. DIVYA & K. RAMA KRISHNA	



Class teacher

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2.4.1 Attendance sheet of Remedial classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: ADVANCED PHARMACOLOGY-I

S. No.	Roll. No.	Student Name	7/1	14/11	21/11	28/11	5/12	12/12	19/12	26/12
1	233H1S0601	M. SAI MANOGNA	1	2	2	3	4	4	5	6

Faculty Signature:

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Attendance sheet of Remedial classes

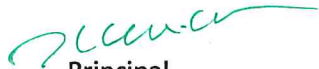
AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: MODERN PHARMACEUTICAL AND ANALYTICAL TECHNIQUES

S. No.	Roll. No.	Student Name	8/11	15/11	22/11	29/11	6/12	13/12	20/12	27/12
1	233H1S0601	M. SAI MANOGNA	1	2	2	3	4	5	6	6




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Attendance sheet of Remedial classes

AY: 2023-24

Class: I M.Pharmacy

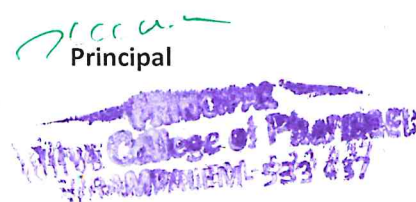
Name of the Subject: CELLULAR AND MOLECULAR PHARMACOLOGY

S. No.	Roll. No.	Student Name	8/11	15/11	22/11	29/11	6/12	13/12	20/12	27/12
1	233H1S0601	M. SAI MANOGNA	1	1	2	3	4	4	5	6

Faculty Signature:



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Attendance sheet of Remedial classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS -I

S. No.	Roll. No.	Student Name	7/11	14/11	21/11	28/11	5/12	12/12	19/12	26/12
1	233H1S0601	M. SAI MANOGNA	1	2	3	3	4	4	5	6

Faculty Signature.



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2.4.2 Topics of Discussion in Remedial classes

AY: 2023-24

Class: IM.Pharmacy

Name of the Subject: ADVANCED PHARMACOLOGY-II

No. of slow learners:1

No of remedial hours:7

S. No.	Date	Topic Taught	Faculty Signature
1	2/12/2023	Insulin and sex hormones	
2	3/12/2023	Drugs affecting calcium regulation	
3	4/12/2023	Drugs used in protozoal infection	
4	5/12/2023	Constipation	
5	6/12/2023	Irritable bowel syndrome	
6	7/12/2023	Role of free radicals in etiopathology of various disease	
7	10/12/2023	Recent advances in treatment	

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Topics of Discussion in Remedial classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-1

No. of slow learners:1

No of remedial hours:7

S. No.	Date	Topic Taught	Faculty Signature
1	29/10/2023	History, concept and importance of drug development	Sae
2	1/11/2023	Good laboratory practices	Sae
3	2/11/2023	Acute eye irritation, skin sensitization	Sae
4	3/11/2023	Male reproductive toxicity studies	Sae
5	4/11/2023	Teratogenicity studies	Sae
6	5/11/2023	Respiratory safety pharmacology	Sae
7	7/11/2023	Alternative methods to animal toxicity testing	Sae



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Topics of Discussion in advanced learners classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: CLINICAL RESEARCH AND PHARMACOVIGILANCE

No. of advanced learners: 4q1

No of hours: 6

S. No.	Date	Topic Taught	Faculty Signature
1	31/12/2023	Ethical principles governing informed consent process	<i>D. Bhargava</i>
2	5/12/2023	Ethical guidelines for biomedical research and human participant-schedule Y	<i>D. Bhargava</i>
3	6/12/2023	Cohort, case control, cross sectional clinical trial study team	<i>D. Bhargava</i>
4	7/12/2023	Contract research organization and its management	<i>D. Bhargava</i>
5	8/12/2023	Predictability and preventability assessment	<i>D. Bhargava</i>
6	10/12/2023	Evaluation of medical safety, establishing pharmacovigilance centres in hospitals	<i>D. Bhargava</i>
7	11/12/2023	Guidelines for ADR reporting	<i>D. Bhargava</i>



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Topics of Discussion in Remedial classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: PRINCIPLES OF DRUG DISCOVERY,,

No. of slow learners: 1

No of remedial hours: 7

S. No.	Date	Topic Taught	Faculty Signature
1	3/11/2023	Role of nucleic acid micro assays	K. Ramesh Kumar
2	8/11/2023	Protein structure	K. Ramesh Kumar
3	9/11/2023	Methods followed in traditional drug design	K. Ramesh Kumar
4	14/11/2023	Virtual screening techniques	K. Ramesh Kumar
5	17/11/2023	De novo drug design, history and development of QSAR, SAR versus QSAR	K. Ramesh Kumar
6	28/11/2023	Multivariate statistical methods	K. Ramesh Kumar
7	5/12/2023	Drug absorption and distribution	K. Ramesh Kumar



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2.4.6 Remedial Class Test Marks

AY: 2023-24

Class: I M.Pharmacy

S. No.	Roll. No.	Student Name	ADP-li	PTSM-li	PDD	CRP
1	233H1S0601	M. SAI MANOGNA	18	17	13	16




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2.4 Circular and Schedule for remedial Classes

Date: 21/10/2023

CIRCULAR

All the faculty of I M. Pharmacy , pharmacology are required to conduct the remedial classes for **slow learners** from 21/10/2023

The timetable is attached below.

REMEDIAL CLASS TIMETABLE FOR SLOWER LEARNERS 2023-2024

DURATION: 21/10/2023 to 11 /12/2023

Day	Timing	Name of the Subject	Name of the Faculty	Signature of the Faculty
Monday	4.15 PM to 5.00 PM	ADVANCED PHARMACOLOGY -I	DR.K. RAVI SHANKAR	
Tuesday		PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS -I	V. BHARGAVI	
Wednesday		CELLULAR AND MOLECULAR PHARMACOLOGY	S.AMALA	
Friday		MODERN PHARMACEUTICAL AND ANALYTICAL TECHNIQUES	N.DIVYA &K. RAMA KRISHNA	



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Attendance sheet of advanced learner classes

AY: 2023-24

Class: IM.Pharmacy

Name of the Subject: ADVANCED PHARMACOLOGY-II

S. No.	Roll. No.	Student Name	7/11	14/1	21/1	28/1	5/1	12/1	19/1	26/1
				1	1	1	2	2	2	2
1	233H1S0603	D.PRIYANKA	1	2	3	4	5	6	7	7
2	233H1S0604	K.RATNAKAR	1	2	2	3	4	5	6	7
3	233H1S0605	N.SURYA MAHA LAKSHMI	1	1	2	3	4	5	6	7
4	233H1S0606	SAMRAT DATTA	1	2	2	3	4	5	6	7

Faculty Signature:



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Attendance sheet of advanced learner classes

AY: 2023-24

Class: IM.Pharmacy

Name of the Subject: PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS -

II

S. No.	Roll. No.	Student Name	7/1	14/1	21/1	28/1	5/1	12/1	19/1	26/1
			1	1	1	1	2	2	2	2
1	233H1S0603	D.PRIYANKA	1	1	2	3	4	5	6	7
2	233H1S0604	K.RATNAKAR	1	2	3	3	4	5	6	7
3	233H1S0605	N.SURYA MAHA LAKSHMI	1	1	2	3	4	5	6	7
4	233H1S0606	SAMRAT DATTA	1	2	3	4	5	6	6	7

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Attendance sheet of advanced learner classes

AY: 2023-24

Class: IM.Pharmacy

Name of the Subject: CLINICAL RESEARCH AND PHARMACOVIGILANCE

S. No.	Roll. No.	Student Name	8/1	15/1	22/1	29/1	6/1	13/1	20/1	27/1
			1	1	1	1	2	2	2	2
1	233H1S0603	D.PRIYANKA	1	2	2	3	4	5	6	7
2	233H1S0604	K.RATNAKAR	1	1	2	3	4	5	6	7
3	233H1S0605	N.SURYA MAHA LAKSHMI	1	2	3	3	4	5	6	7
4	233H1S0606	SAMRAT DATTA	1	2	3	4	4	5	5	6

Faculty Signature:



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Attendance sheet of advanced learner classes

AY: 2023-24

Class: IM.Pharmacy

Name of the Subject: PRINCIPLES OF DRUG DISCOVERY

S. No.	Roll. No.	Student Name	8/11	15/11	22/11	29/11	6/12	13/12	20/12	27/12
1	233H1S0603	D.PRIYANKA	1	2	3	4	4	5	6	7
2	233H1S0604	K.RATNAKA R	1	2	2	3	4	5	6	7
3	233H1S0605	N.SURYA MAHA LAKSHMI	1	2	3	3	4	5	6	7
4	233H1S0606	SAMRAT DATTA	1	2	3	4	4	5	6	7

Faculty Signature:

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Topics of Discussion in advanced learners classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: ADVANCED PHARMACOLOGY-II

No. of advanced learners:4

No of hours:7

S. No.	Date	Topic Taught	Faculty Signature
1	29/10/2023	Anti-thyroid drugs, oral hypoglycemic agents	
2	31/10/2023	Macrolide antibiotics anti-fungal anti-viral and anti TB drugs	
3	1/11/2023	Drugs used in the treatment of helminthiasis	
4	2/11/2023	Chemotherapy of cancer immunopharmacology	
5	3/11/2023	Allergic or hypersensitivity reactions	
6	4/11/2023	Biological and circadian rhythms, diabetes	
7	5/11/2023	Protective activity of certain important antioxidants	



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Topics of Discussion in advanced learners classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS -I

No. of advanced learners:4

No of hours:6

S. No.	Date	Topic Taught	Faculty Signature
1	21/10/2023	Test item characterization-importance and methods in regulatory toxicology studies	<i>[Signature]</i>
2	22/10/2023	Basic definition and types of toxicology	<i>[Signature]</i>
3	24/10/2023	Genotoxicity studies	<i>[Signature]</i>
4	25/10/2023	List of studies needed for IND submission	<i>[Signature]</i>
5	26/10/2023	Respiratory safety pharmacology	<i>[Signature]</i>
6	27/10/2023	Toxicokinetic evaluation in preclinical studies	<i>[Signature]</i>
7	28/10/2023	Applications in toxicokinetic studies	<i>[Signature]</i>



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Topics of Discussion in Remedial classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: MODERN PHARMACEUTICAL AND ANALYTICAL TECHNIQUES

No. of slow learners:1

No of remedial hours:7

S. No.	Date	Topic Taught	Faculty Signature
1	11/11/2023	UV-visible spectrometry	<i>D. Bhargava</i>
2	12/11/2023	Chromatographic parameters, factors affecting resolution	<i>D. Bhargava</i>
3	14/11/2023	Potentiometry	<i>D. Bhargava</i>
4	17/11/2023	Thermal techniques	<i>D. Bhargava</i>
5	19/11/2023	Differential thermal analysis	<i>D. Bhargava</i>
6	21/11/2023	Electrophoresis-paper Electrophoresis	<i>D. Bhargava</i>
7	23/11/2023	Gel -Electrophoresis	<i>D. Bhargava</i>



Class Teacher

K. Anand
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Topics of Discussion in advanced learners classes

AY: 2023-24

Class: I M.Pharmacy

Name of the Subject: PRINCIPLES OF DRUG DISCOVERY

No. of advanced learners: 4

No of hours: 6

S. No.	Date	Topic Taught	Faculty Signature
1	21/10/2023	Target discovery and validation, zinc finger proteins.	K. Ram Krishna
2	22/10/2023	Assay development for hit identification, protein structure	K. Ram Krishna
3	23/10/2023	Concepts of rational drug design	K. Ram Krishna
4	25/10/2023	Molecular docking : rigid docking, flexible docking	K. Ram Krishna
5	26/10/2023	Hansch analysis	K. Ram Krishna
6	27/10/2023	Site specific drug delivery and sustained drug action	K. Ram Krishna
7	28/10/2023	Rationale of prodrug design	K. Ram Krishna



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2.4.6 Advanced learners Class Test Marks

AY: 2023-24

Class: I M.Pharmacy

S. No.	Roll. No.	Student Name	APC-II	PTSM-II	PDD	CRP
1	233H1S0603	D.PRIYANKA	18	15	16	18
2	233H1S0604	K.RATNAKAR	15	14	15	16
3	233H1S0605	N.SURYA MAHALAKSHMI	17	14	17	16
4	233H1S0606	SAMRAT DATTA	14	18	16	17



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RATIONAL DRUG DESIGN:
Drug design is the intelligent process of finding new medications based on the knowledge of the biological target.

→ In the most basic sense, drug design involves design of small molecules that are complementary in shape and charge to the bio-molecular target to which they interact and therefore will bind to it.

Methods:

- Random Screening
- Trial and error Method
- Ethnopharmacology approach
- Serendipity Method
- Classical pharmacology
- Chemical structures based drug discovery

Types of drug design:

- Structure based drug design
- Ligand based drug design

Drug design

Screening Methods:

Good Laboratory Practices: It is a set of principles that provides a frame work within which laboratory studies are planned, performed, monitored, recorded and reported.

Why GLP created: In the early 70s FDA became aware of cases of poor laboratory practices all over the united states.

They discovered a lot of fraudulent activities and a lot of poor lab practices.

Examples of some of these poor lab practices found were:

- Equipment not been calibrated to standard form
- Incorrect/inadequate accounts of the animal lab study
- Inadequate test systems

PRINCIPLES:

- Test facility Organization and personnel
- Quality assurance programme (QA/QC)
- Facilities
- Apparatus, Material and reagents
- Test systems
- Test and reference substances
- Standard Organization procedures
- Performance of the study
- Reporting of study or results

SBDD **LBDD**

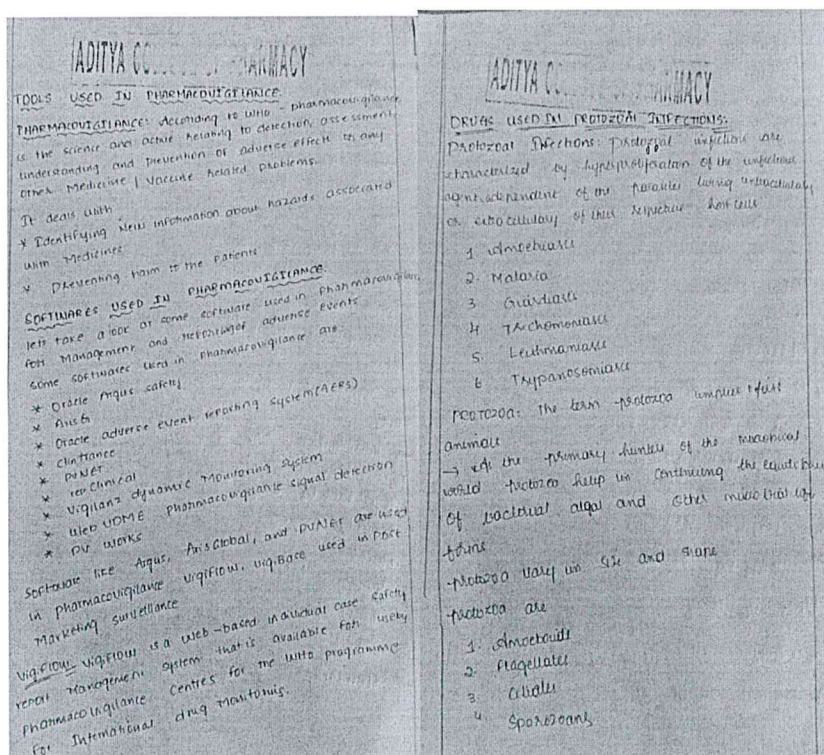
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2.5.5 Advanced learners Sample Answer Sheets Internal Exam



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