



# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by A.I.C.T.E, PCI, Recognized by the Govt. of A.P. & Affiliated to JNTU-K, Kakinada)  
Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162.

ESTD : 2005

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1.2.2: Number of add on / certificate programs offered during academic year: 2020-2021.

1.2.2: Number of students enrolled in certificate / add on programs as against the total number of students during the year: 2020- 2021.

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Avanthi Institute of Pharmaceutical Sciences  
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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2020-21 / 01

Date: 30-11-2020

### CIRCULAR

This is to inform all the students of II B. Pharmacy that a value-added course will be conducted on the topic “Neuropharmacology and CNS medications” from 07/12/2020 to 12/12/2020 interested students are required to sign-up for the above mentioned course with “Mrs. MADHAVI” Associate Professor in the Department of Pharmacy.



*Principal*

Principal

Avanthi Institute of Pharmaceutical Sciences

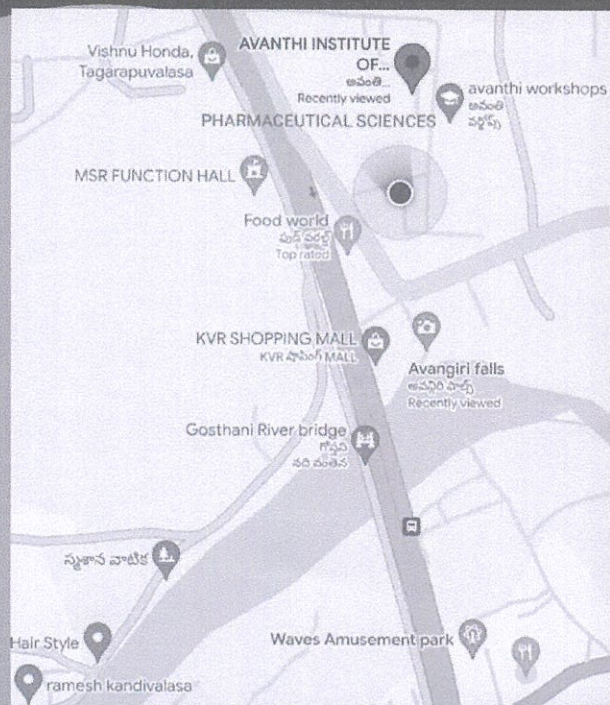
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## Institution

Avanthi Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapuvalasa Bridge adjacent to NH-16. Students of Avanthi boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



## Organizing Committee

### Cheif Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Mrs. M. Madhavi Kumari,  
Associate Professor.



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## Organizing Committee

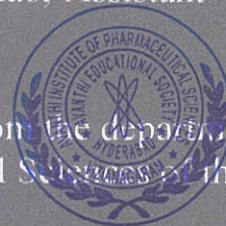
M. Divya, Assistant Professor

Mr. B. YerniKumar, Assistant  
Professor

M. Rajeshwara Rao, Assistant  
Professor

## Members

All the faculty from the department  
of Pharmaceutical Sciences of the  
host institute



## 6 Days Workshop

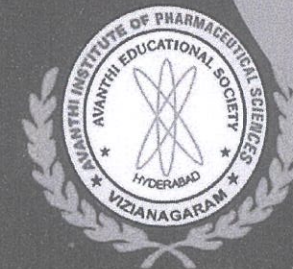
On

## Neuropharmacology and CNS Medications

07/12/2020 - 12/12/2020

Organized By:

DEPARTMENT OF  
PHARMACY



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CHERUKUPALLY (VILLAGE), NEAR  
TAGARAPUVALASA BRIDGE,  
BHOGAPURAM MANDAL, VIZIANAGARAM  
Dist. - 531102.  
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Course Title	: Neuropharmacology and CNS medications
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2020-21
Course Instructor	: Mrs. M. Madhavi, Associate Professor, Avanthi Institute of Pharmaceutical Sciences
Course Coordinator	: Mrs. B. Meher Jyothi, Assistant Professor.
Dates	: 07-12-2020 to 12-12-2020
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/B. Pharm/2020/ 01</b>

## Objectives:

- Explain the process of neurotransmission and how drugs can alter the release, reuptake, or breakdown of neurotransmitters.
- Understand the role of neurotransmitters in signal transmission within the CNS.
- Identify and describe major neurotransmitter systems, such as the cholinergic, dopaminergic, serotonergic, and noradrenergic systems.
- Understand how drugs can act as agonists or antagonists at specific receptors, influencing neuronal activity.
- Classify CNS medications into major categories such as antidepressants, antipsychotics, anxiolytics, hypnotics, and analgesics.
- Describe the mechanisms of action, therapeutic uses, and potential side effects of drugs within each class.
- Apply knowledge of neuropharmacology to real-world clinical scenarios.

## Out comes:

- CNS medications are designed to produce therapeutic effects by influencing the functioning of the central nervous system.
- These effects can include alleviation of symptoms, improvement in cognitive function, mood stabilization, and management of pain.
- Many CNS medications are used to manage symptoms rather than cure underlying conditions.
- This necessitates personalized treatment plans and careful monitoring.
- Some CNS medications, particularly those used for pain management or the treatment of certain psychiatric conditions, can lead to tolerance and dependence



  
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## Syllabus

### 1. Introduction to Neuropharmacology

- Overview of Neuropharmacology
- Basic concepts in pharmacology
- Neurotransmitters and their role in the CNS
- Receptors and signal transduction in the nervous system

### 2. Drug Absorption, Distribution, Metabolism, and Elimination in the CNS

- Blood-brain barrier
- Pharmacokinetics and pharmacodynamics
- Factors influencing drug distribution and metabolism in the CNS

### 3. Major Neurotransmitter Systems and Drugs Affecting Them

- Cholinergic and anticholinergic drugs
- Adrenergic drugs
- Serotonergic drugs
- Dopaminergic drugs
- GABAergic drugs
- Glutamatergic drugs

### 4. Psychopharmacology and Drugs for Mood Disorders

- Antidepressants
- Mood stabilizers
- Anxiolytics
- Antipsychotics

### 5. Neurological Disorders and Medications

- Drugs for epilepsy and seizure disorders
- Drugs for movement disorders (e.g., Parkinson's disease)
- Drugs for multiple sclerosis

### 6. Pain Management and Anesthetics

- Analgesics and pain management
- Local and general anesthetics
- Neuropathic pain medications



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**Course Coordinator**

**HOD**

**TIMETABLE**

**CLASS: II B. PHARMACY**

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Neuropharmacology and CNS medications	Break	Neuropharmacology and CNS medications	Lunch	Neuropharmacology and CNS medications	Neuropharmacology and CNS medications	Break	Neuropharmacology and CNS medications	Neuropharmacology and CNS medications
TUE									
WED									
THU									
FRI									
SAT									

*B. Meheriyothu*  
**Course Coordinator**

*N. Neelima*  
**HOD**

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Bhogapuram (M), Vizianagaram Dist



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Reference book: "Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy"  
Authors: David E. Golan, Armen H. Tashjian Jr., Ehrin J. Armstrong, April W. Armstrong

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	12-12-2022	6hrs	<b>1. Introduction to Neuropharmacology</b> <ul style="list-style-type: none"><li>• Overview of Neuropharmacology</li><li>• Basic concepts in pharmacology</li><li>• Neurotransmitters and their role in the CNS</li><li>• Receptors and signal transduction in the nervous system</li></ul>
2.		13-12-2022	6hrs	<b>2. Drug Absorption, Distribution, Metabolism, and Elimination in the CNS</b> <ul style="list-style-type: none"><li>• Blood-brain barrier</li><li>• Pharmacokinetics and pharmacodynamics</li><li>• Factors influencing drug distribution and metabolism in the CNS</li></ul>
3.		14-12-2022	6hrs	<b>3. Major Neurotransmitter Systems and Drugs Affecting Them</b> <ul style="list-style-type: none"><li>• Cholinergic and anticholinergic drugs</li><li>• Adrenergic drugs</li><li>• Serotonergic drugs</li><li>• Dopaminergic drugs</li><li>• GABAergic drugs</li><li>• Glutamatergic drugs</li></ul>
4.		15-12-2022	6hrs	<b>4. Psychopharmacology and Drugs for Mood Disorders</b> <ul style="list-style-type: none"><li>• Antidepressants</li><li>• Mood stabilizers</li><li>• Anxiolytics</li></ul>



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				<ul style="list-style-type: none"><li>• Antipsychotics</li></ul>
5.		16-12-2022	6hrs	<b>5. Neurological Disorders and Medications</b> <ul style="list-style-type: none"><li>• Drugs for epilepsy and seizure disorders</li><li>• Drugs for movement disorders (e.g., Parkinson's disease)</li><li>• Drugs for multiple sclerosis</li></ul>
6.		17-12-2022	6hrs	<b>6. Pain Management and Anesthetics</b> <ul style="list-style-type: none"><li>• Analgesics and pain management</li><li>• Local and general anesthetics</li><li>• Neuropathic pain medications</li></ul>

*B. Meherjyothi*  
**Course Coordinator**

*N. Neelima*  
**HOD**

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**Assessment:**

- 1. Which neurotransmitter is primarily targeted by selective serotonin reuptake inhibitors (SSRIs)?**
  - a. Dopamine
  - b. Norepinephrine
  - c. Serotonin
  - d. Acetylcholine
- 2. What is the primary mechanism of action of benzodiazepines in the CNS?**
  - a. Blockade of serotonin receptors
  - b. Inhibition of GABA receptors
  - c. Enhancement of dopamine release
  - d. Antagonism of glutamate receptors
- 3. Which of the following is a common side effect associated with typical antipsychotic medications?**
  - a. Weight gain
  - b. Sedation
  - c. Sexual dysfunction
  - d. Orthostatic hypotension
- 4. Which class of drugs is often used to treat neuropathic pain by stabilizing neuronal membranes and reducing abnormal electrical activity?**
  - a. Beta-blockers
  - b. Antidepressants
  - c. Antipsychotics
  - d. Anticonvulsants
- 5. L-dopa is a precursor for which neurotransmitter, commonly used in the treatment of Parkinson's disease?**
  - a. Acetylcholine
  - b. Dopamine
  - c. Norepinephrine
  - d. Serotonin
- 6. What is the primary mechanism of action of selective norepinephrine reuptake inhibitors (NRIs)?**
  - a. Blockade of dopamine receptors
  - b. Inhibition of serotonin receptors
  - c. Enhancement of norepinephrine levels
  - d. Antagonism of GABA receptors
- 7. Which medication is a common first-line treatment for generalized anxiety disorder (GAD) and works by enhancing the inhibitory effects of GABA?**
  - a. Fluoxetine
  - b. Lorazepam



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- c. Venlafaxine
  - d. Aripiprazole
8. What is the primary neurotransmitter targeted by tricyclic antidepressants (TCAs)?
- a. Dopamine
  - b. Serotonin
  - c. GABA
  - d. Norepinephrine
9. Which of the following is a common side effect of antipsychotic medications known as extrapyramidal symptoms (EPS)?
- a. Diarrhea
  - b. Hypertension
  - c. Tardive dyskinesia
  - d. Urinary retention
10. Which drug class is commonly used to treat Alzheimer's disease by inhibiting acetylcholinesterase, thereby increasing acetylcholine levels in the brain?
- a. Beta-blockers
  - b. Cholinesterase inhibitors
  - c. Dopamine agonists
  - d. Opioid analgesics

*B. yehajyothi*  
Course Coordinator

*N. Neelima*  
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Date : 07-12-2020 to 12-12-2020  
No. of Students Enrolled : 102  
Subject : "Neuropharmacology and CNS medications" II B. Pharmacy

S. No	Roll No.	Student Name
1	19T51R0001	Alajangi Jhansi
2	19T51R0002	Anguluru Jyothirmai
3	19T51R0003	Arava Naveen
4	19T51R0004	Bandaru Hanok Hemanth Kumar
5	19T51R0005	Bandaru Ramakala
6	19T51R0006	Bankapalli Sai Rajitha
7	19T51R0007	Behara Durga Sampat Bhavana
8	19T51R0008	Biddika Prasanth Kumar
9	19T51R0009	Bodapati Kaveri
10	19T51R0010	Boddu Mary Mani
11	19T51R0011	Bogi Pradeep
12	19T51R0012	Bolli Bindhusri
13	19T51R0013	Bontalakoti Sheshadrimani
14	19T51R0014	Bonula Saikumar
15	19T51R0015	Bosi Rajkumar
16	19T51R0016	Botta Mamatha
17	19T51R0017	Buddala Kasturi
18	19T51R0018	Budumuru Gayatri



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19	19T51R0019	Buradhapati Gopala Krishna
20	19T51R0020	Chilakala Teja
21	19T51R0021	Chinta Kiranmayi
22	19T51R0022	Chinthala Swathimathi
23	19T51R0023	Doddi Shanmukha Rithika
24	19T51R0024	Donthala Kusuma
25	19T51R0025	Dundangi Sarvani
26	19T51R0026	Duvvana Hemalatha
27	19T51R0027	Dwarapureddi Lavanya
28	19T51R0028	Era Jyothi Prodhan
29	19T51R0029	Gajjala Sreekanth
30	19T51R0030	Gajjala Adi Narayana
31	19T51R0031	Gorrela Raju
32	19T51R0032	Gudivada Gopala Krishna
33	19T51R0033	Gurala Vedhika Sridevi
34	19T51R0034	Gurana Bhavani
35	19T51R0035	Gunupuru Nagendra
36	19T51R0036	Jagannadha Durga Devi
37	19T51R0037	Jami Thanuja
38	19T51R0038	Kaibada Swapna
39	19T51R0039	Kantreddi Satishkumar
40	19T51R0040	Katta Avinash



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41	19T51R0041	Kedari Navya
42	19T51R0042	Kedarisetty Pavithra
43	19T51R0043	Kollu Veera Manikantha
44	19T51R0044	Komma Gowthami Bhavani
45	19T51R0045	Kommuri Revathi
46	19T51R0046	Kondagorri Hari
47	19T51R0047	Kondala Roja Ramani
48	19T51R0048	Kornana Pavan Kumar
49	19T51R0049	Kotamahanthi Sujatha
50	19T51R0050	Kotari Santhosh
51	19T51R0051	Kunthuri Umamahesh
52	19T51R0052	Kuppa Sridevi
53	19T51R0053	Lankalapalli Sai Bhuvaneshwari
54	19T51R0054	Lingampalli Satya Sri Hamsika
55	19T51R0055	Lotti Chandrika
56	19T51R0056	Madugula Sirisha
57	19T51R0057	Malla Pavithra Pavani
58	19T51R0058	Mamidi Sravani
59	19T51R0059	Mamidiseti Naina
60	19T51R0060	Mariserla Devayani
61	19T51R0061	Matta Suseela
62	19T51R0062	Miriyala Renuka Swathi



  
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63	19T51R0063	Mohammad Nafisa
64	19T51R0064	Mosalikanti Rishika
65	19T51R0065	Mulli Madhuri
66	19T51R0066	Mutyala Lohith
67	19T51R0067	Mylapalli Devi
68	19T51R0068	Nagam Tanuja
69	19T51R0069	Nammi Padma
70	19T51R0070	Neradabilli Sadhana
71	19T51R0071	Padala Sharon
72	19T51R0072	Palo Swathi
73	19T51R0073	Pasupuleti Bhanu Prakash
74	19T51R0074	Patnaikuni Sai Jahnvi
75	19T51R0075	Peetala Mrudhula
76	19T51R0076	Pothina Kavya
77	19T51R0077	Potnuru Srilekha
78	19T51R0078	Puli Harsha Veena
79	19T51R0079	Rajana Dilip Kumar
80	19T51R0080	Ramadevi Rasula
81	19T51R0081	Ratnala Bhargavi
82	19T51R0082	Reddi Bhavanthi
83	19T51R0083	Saka Sesanka
84	19T51R0084	Sarapenta Harinhadh



  
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85	19T51R0085	Saripilli L S D K Vamsi Yadav
86	19T51R0086	Shankar Rao Bora
87	19T51R0087	Shivani Namburu
88	19T51R0088	Siragam Akhil Kumar
89	19T51R0089	Srivatsavai Lakshmi Sandili
90	19T51R0090	Sunkara Anju Sree
91	19T51R0091	Tadi Abhishek
92	19T51R0092	Tapa Poojitha
93	19T51R0093	Telapalli Haritha
94	19T51R0094	Telikicherla Veenapani
95	19T51R0095	Thamatapu Aravind
96	19T51R0096	Toyaka Manisha
97	19T51R0097	Vankayalapati Sai Sravani
98	19T51R0098	Vantakula Lavanya
99	19T51R0099	Yammala Vamsi
100	19T51R01A1	Paspu Reddy Sharnalatha
101	19T51R01A2	Koyya Roshini
102	19T51R01A3	Simhadri Gnana Prasanna

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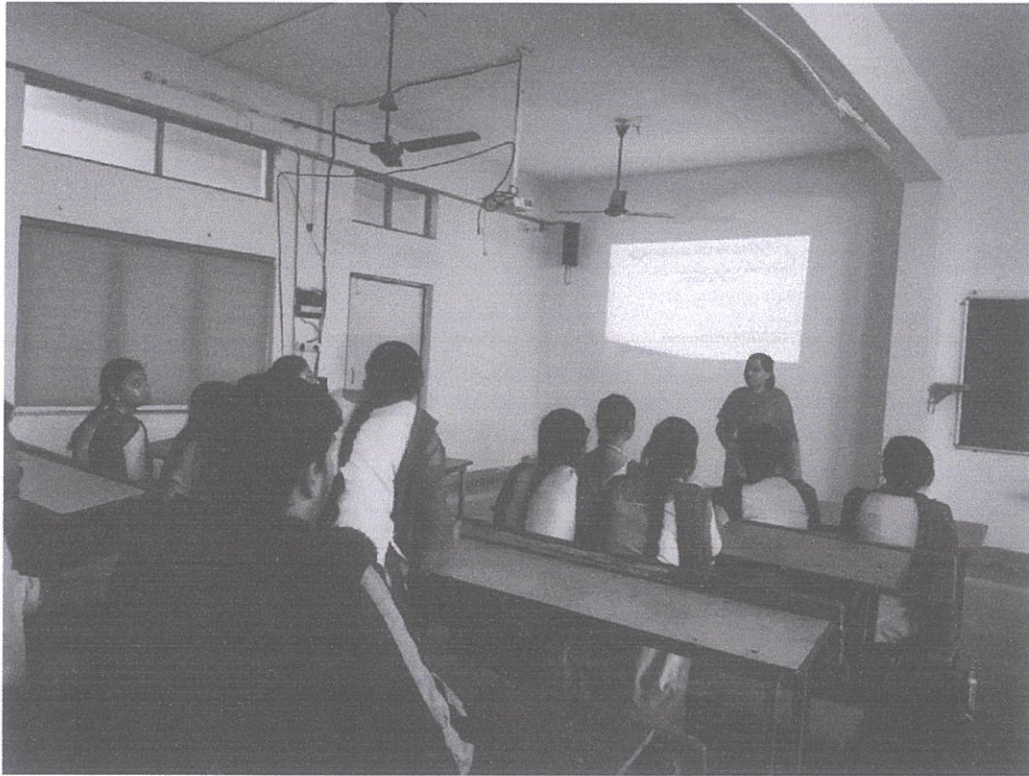
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The students of 1<sup>st</sup> year M. Pharmacy certificate program attending “NEUROPHARMACOLOGY AND CNS MEDICATIONS” by Mrs. M. Madhavi, Associate Professor, Avanthi Institute of Pharmaceutical Sciences



*fu*  
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Date : 14-12-2020 to 19-12-2020

Subject : "Neuropharmacology and CNS medications"

III B. Pharmacy

S. No	Roll No.	Student Name	14/12/20	15/12/20	16/12/20	17/12/20	18/12/20	19/12/20
1	19T51R0001	Alajangi Jhansi	✓	✓	✓	✓	✓	A
2	19T51R0002	Anguluru Jyothirmai	A	✓	✓	✓	✓	✓
3	19T51R0003	Arava Naveen	✓	✓	✓	✓	✓	✓
4	19T51R0004	Bandaru Hanok Hemanth Kumar	A	A	A	A	A	A
5	19T51R0005	Bandaru Ramakala	✓	✓	✓	A	✓	✓
6	19T51R0006	Bankapalli Sai Rajitha	✓	A	✓	✓	A	✓
7	19T51R0007	Behara Durga Sampat Bhavana	✓	✓	A	✓	✓	✓
8	19T51R0008	Biddika Prasanth Kumar	A	✓	✓	A	✓	A
9	19T51R0009	Bodapati Kaveri	✓	✓	A	✓	✓	✓
10	19T51R0010	Boddu Mary Mani	✓	A	✓	✓	✓	✓
11	19T51R0011	Bogi Pradeep	✓	✓	✓	A	✓	A
12	19T51R0012	Bolli Bindhusri	A	✓	A	✓	A	✓
13	19T51R0013	Bontalakoti Sheshadrimani	✓	A	✓	A	✓	✓
14	19T51R0014	Bonula Saikumar	✓	✓	✓	✓	✓	A
15	19T51R0015	Bosi Rajkumar	A	✓	✓	✓	✓	✓
16	19T51R0016	Botta Mamatha	✓	✓	A	A	✓	✓
17	19T51R0017	Buddala Kasturi	✓	A	✓	✓	A	✓

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18	19T51R0018	Budumuru Gayatri	A	A	A	A	A	A
19	19T51R0019	Buradhapati Gopala Krishna	✓	✓	✓	✓	A	✓
20	19T51R0020	Chilakala Teja	✓	✓	✓	A	✓	A
21	19T51R0021	Chinta Kiranmayi	✓	✓	✓	✓	✓	✓
22	19T51R0022	Chinthala Swathimathi	A	✓	A	✓	✓	A
23	19T51R0023	Doddi Shanmukha Rithika	✓	✓	✓	A	✓	✓
24	19T51R0024	Donthala Kusuma	✓	✓	✓	✓	A	✓
25	19T51R0025	Dundangi Sarvani	✓	A	✓	✓	✓	A
26	19T51R0026	Duvvana Hemalatha	A	✓	A	A	✓	✓
27	19T51R0027	Dwarapureddi Lavanya	✓	A	✓	✓	A	✓
28	19T51R0028	Era JyothiProdhan	✓	✓	✓	✓	✓	✓
29	19T51R0029	Gajjala Sreekanth	✓	✓	✓	A	✓	A
30	19T51R0030	GajjalaAdi Narayana	A	✓	A	✓	✓	✓
31	19T51R0031	Gorrela Raju	✓	✓	✓	A	✓	✓
32	19T51R0032	Gudivada Gopala Krishna	✓	✓	✓	✓	A	✓
33	19T51R0033	GuralaVedhika Sridevi	A	✓	✓	A	✓	A
34	19T51R0034	Gurana Bhavani	✓	A	✓	✓	✓	✓
35	19T51R0035	Gunupuru Nagendra	✓	A	A	✓	✓	✓
36	19T51R0036	Jagannadha Durga Devi	A	✓	✓	A	✓	✓
37	19T51R0037	Jami Thanuja	✓	✓	✓	✓	A	✓
38	19T51R0038	Kaibada Swapna	✓	A	✓	A	✓	A

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39	19T51R0039	Kantreddi Satishkumar	✓	✓	✓	✓	✓	✓
40	19T51R0040	Katta Avinash	A	A	A	A	A	A
41	19T51R0041	Kedari Navya	✓	✓	✓	✓	✓	✓
42	19T51R0042	Kedarisetty Pavithra	✓	✓	✓	✓	✓	✓
43	19T51R0043	Kollu Veera Manikantha	A	A	A	A	A	A
44	19T51R0044	Komma Gowthami Bhavani	✓	✓	✓	✓	✓	✓
45	19T51R0045	Kommuri Revathi	✓	✓	✓	✓	✓	✓
46	19T51R0046	Kondagorri Hari	A	✓	✓	A	A	✓
47	19T51R0047	Kondala Roja Ramani	✓	A	A	✓	✓	A
48	19T51R0048	Kornana Pavan Kumar	✓	✓	✓	✓	✓	✓
49	19T51R0049	Kotamahanthi Sujatha	✓	✓	✓	✓	✓	✓
50	19T51R0050	Kotari Santhosh	A	✓	✓	A	✓	A
51	19T51R0051	Kunthuri Umamahesh	✓	A	A	✓	✓	✓
52	19T51R0052	Kuppa Sridevi	✓	✓	✓	✓	A	✓
53	19T51R0053	Lankalapalli Sai Bhuvaneswari	A	✓	✓	✓	✓	✓
54	19T51R0054	Lingampalli Satya Sri Hamsika	✓	✓	A	A	✓	✓
55	19T51R0055	Lotti Chandrika	✓	A	✓	✓	A	✓
56	19T51R0056	Madugula Sirisha	A	✓	✓	✓	✓	A
57	19T51R0057	MallaPavithraPavani	✓	✓	A	A	✓	✓
58	19T51R0058	Mamidi Sravani	✓	A	✓	✓	✓	A
59	19T51R0059	Mamidiseti Naina	✓	✓	✓	✓	A	✓

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ESTD : 2005

60	19T51R0060	Mariserla Devayani	A	A	✓	✓	✓	✓
61	19T51R0061	Matta Suseela	✓	✓	A	A	✓	A
62	19T51R0062	Miriyala RenukaSwathi	✓	✓	✓	✓	A	✓
63	19T51R0063	Mohammad Nafisa	✓	✓	A	A	✓	✓
64	19T51R0064	Mosalikanti Rishika	A	A	✓	✓	✓	✓
65	19T51R0065	Mulli Madhuri	✓	✓	✓	✓	A	A
66	19T51R0066	Mutyala Lohith	✓	✓	✓	A	✓	✓
67	19T51R0067	Mylapalli Devi	A	✓	A	✓	✓	A
68	19T51R0068	Nagam Tanuja	✓	A	✓	A	A	✓
69	19T51R0069	Nammi Padma	✓	✓	✓	✓	✓	✓
70	19T51R0070	Neradabilli Sadhana	✓	✓	✓	✓	✓	A
71	19T51R0071	Padala Sharon	A	A	A	A	A	A
72	19T51R0072	Palo Swathi	✓	✓	✓	✓	✓	✓
73	19T51R0073	Pasupuleti Bhanu Prakash	✓	✓	✓	✓	A	✓
74	19T51R0074	Patnaikuni Sai Jahnvi	✓	A	A	✓	✓	✓
75	19T51R0075	Peetala Mrudhula	A	✓	✓	A	✓	A
76	19T51R0076	Pothina Kavya	✓	✓	A	✓	A	✓
77	19T51R0077	Potnuru Srilekha	✓	✓	✓	A	✓	✓
78	19T51R0078	Puli Harsha Veena	✓	✓	✓	✓	✓	✓
79	19T51R0079	Rajana Dilip Kumar	A	A	A	A	A	A
80	19T51R0080	Ramadevi Rasula	✓	✓	✓	A	✓	✓

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81	19T51R0081	Ratnala Bhargavi	A	✓	A	✓	✓	A
82	19T51R0082	Reddi Bhavanthi	✓	A	✓	A	✓	✓
83	19T51R0083	Saka Sesanka	✓	✓	✓	✓	A	✓
84	19T51R0084	Sarapenta Harinhadh	A	✓	A	✓	✓	✓
85	19T51R0085	Saripilli L S D K Vamsi Yadav	✓	A	✓	✓	✓	A
86	19T51R0086	Shankar Rao Bora	✓	✓	✓	A	A	✓
87	19T51R0087	Shivani Namburu	✓	✓	✓	✓	✓	✓
88	19T51R0088	Siragam Akhil Kumar	A	✓	✓	✓	✓	A
89	19T51R0089	Srivatsavai Lakshmi Sandili	✓	A	✓	A	A	✓
90	19T51R0090	Sunkara Anju Sree	✓	✓	A	✓	✓	✓
91	19T51R0091	Tadi Abhishek	✓	✓	✓	✓	✓	A
92	19T51R0092	Tapa Poojitha	A	A	✓	✓	A	✓
93	19T51R0093	Telapalli Haritha	✓	✓	✓	A	✓	✓
94	19T51R0094	Telikicherla Veenapani	✓	✓	A	✓	✓	A
95	19T51R0095	Thamatapu Aravind	✓	A	✓	✓	A	✓
96	19T51R0096	Toyaka Manisha	A	✓	✓	A	✓	✓
97	19T51R0097	Vankayalapati Sai Sravani	✓	✓	✓	✓	✓	A
98	19T51R0098	VantakulaLavanya	✓	✓	A	✓	✓	✓
99	19T51R0099	Yammala Vamsi	A	A	A	A	A	A
100	19T51R01A1	Paspu Reddy Sharnalatha	✓	✓	✓	✓	✓	✓
101	19T51R01A2	Koyya Roshini	✓	A	✓	A	A	✓

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102	19T51R01A3	Simhadri GnanaPrasanna	A	✓	✓	A	✓	✓
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*Maheshyothi*  
Course Coordinator

*N. Neelima*  
HOD

Avanthi Institute of Pharmaceutical Sciences  
CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



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Date : 07-12-2020 to 12-12-2020

No. of Students Enrolled : 102

Subject : "Neuropharmacology and CNS medications" II B. Pharmacy

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	19T51R0001	Alajangi Jhansi	30	83%
2	19T51R0002	Anguluru Jyothirmai	30	83%
3	19T51R0003	Arava Naveen	36	100%
4	19T51R0004	Bandaru Hanok Hemanth Kumar	nil	0%
5	19T51R0005	Bandaru Ramakala	30	83%
6	19T51R0006	Bankapalli Sai Rajitha	24	66%
7	19T51R0007	Behara Durga Sampat Bhavana	30	83%
8	19T51R0008	Biddika Prasanth Kumar	18	50%
9	19T51R0009	Bodapati Kaveri	30	83%
10	19T51R0010	Boddu Mary Mani	30	83%
11	19T51R0011	Bogi Pradeep	24	66%
12	19T51R0012	Bolli Bindhusri	18	50%
13	19T51R0013	Bontalakoti Sheshadrimani	24	66%
14	19T51R0014	Bonula Saikumar	30	83%
15	19T51R0015	Bosi Rajkumar	30	83%
16	19T51R0016	Botta Mamatha	24	66%
17	19T51R0017	Buddala Kasturi	24	66%
18	19T51R0018	Budumuru Gayatri	nil	0%



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19	19T51R0019	Buradhapati Gopala Krishna	30	83%
20	19T51R0020	Chilakala Teja	24	66%
21	19T51R0021	Chinta Kiranmayi	36	100%
22	19T51R0022	Chinthala Swathimathi	18	50%
23	19T51R0023	Doddi Shanmukha Rithika	30	83%
24	19T51R0024	Donthala Kusuma	30	83%
25	19T51R0025	Dundangi Sarvani	24	66%
26	19T51R0026	Duvvana Hemalatha	18	50%
27	19T51R0027	Dwarapureddi Lavanya	24	66%
28	19T51R0028	Era Jyothi Prodhan	36	100%
29	19T51R0029	Gajjala Sreekanth	24	66%
30	19T51R0030	Gajjala Adi Narayana	24	66%
31	19T51R0031	Gorrela Raju	30	83%
32	19T51R0032	Gudivada Gopala Krishna	30	83%
33	19T51R0033	Gurala Vedhika Sridevi	18	50%
34	19T51R0034	Gurana Bhavani	30	83%
35	19T51R0035	Gunupuru Nagendra	24	66%
36	19T51R0036	Jagannadha Durga Devi	nil	0%
37	19T51R0037	Jami Thanuja	30	83%
38	19T51R0038	Kaibada Swapna	18	50%
39	19T51R0039	Kantreddi Satishkumar	36	100%
40	19T51R0040	Katta Avinash	nil	0%



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41	19T51R0041	Kedari Navya	36	100%
42	19T51R0042	Kedarisetty Pavithra	36	100%
43	19T51R0043	Kollu Veera Manikantha	0	0%
44	19T51R0044	Komma Gowthami Bhavani	36	100%
45	19T51R0045	Kommuri Revathi	36	100%
46	19T51R0046	Kondagorri Hari	18	50%
47	19T51R0047	Kondala Roja Ramani	18	50%
48	19T51R0048	Kornana Pavan Kumar	36	100%
49	19T51R0049	Kotamahanthi Sujatha	36	100%
50	19T51R0050	Kotari Santhosh	18	50%
51	19T51R0051	Kunthuri Umamahesh	24	66%
52	19T51R0052	Kuppa Sridevi	30	83%
53	19T51R0053	Lankalapalli Sai Bhuvaneshwari	30	83%
54	19T51R0054	Lingampalli Satya Sri Hamsika	24	66%
55	19T51R0055	Lotti Chandrika	24	66%
56	19T51R0056	Madugula Sirisha	24	66%
57	19T51R0057	Malla Pavithra Pavani	24	66%
58	19T51R0058	Mamidi Sravani	24	66%
59	19T51R0059	Mamidiseti Naina	30	83%
60	19T51R0060	Mariserla Devayani	24	66%
61	19T51R0061	Matta Suseela	18	50%
62	19T51R0062	Miriyala Renuka Swathi	30	83%



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63	19T51R0063	Mohammad Nafisa	24	66%
64	19T51R0064	Mosalikanti Rishika	24	66%
65	19T51R0065	Mulli Madhuri	24	66%
66	19T51R0066	Mutyala Lohith	30	83%
67	19T51R0067	Mylapalli Devi	18	50%
68	19T51R0068	Nagam Tanuja	18	50%
69	19T51R0069	Nammi Padma	36	100%
70	19T51R0070	Neradabilli Sadhana	30	83%
71	19T51R0071	Padala Sharon	nil	0%
72	19T51R0072	Palo Swathi	36	100%
73	19T51R0073	Pasupuleti Bhanu Prakash	30	83%
74	19T51R0074	Patnaikuni Sai Jahnavi	24	66%
75	19T51R0075	Peetala Mrudhula	18	50%
76	19T51R0076	Pothina Kavya	24	66%
77	19T51R0077	Potnuru Srilekha	30	83%
78	19T51R0078	Puli Harsha Veena	36	100%
79	19T51R0079	Rajana Dilip Kumar	nil	0%
80	19T51R0080	Ramadevi Rasula	30	83%
81	19T51R0081	Ratnala Bhargavi	18	50%
82	19T51R0082	Reddi Bhavanthi	24	66%
83	19T51R0083	Saka Sesanka	30	83%
84	19T51R0084	Sarapenta Harinhadh	24	66%



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85	19T51R0085	Saripilli L S D K Vamsi Yadav	24	66%
86	19T51R0086	Shankar Rao Bora	24	66%
87	19T51R0087	Shivani Namburu	36	100%
88	19T51R0088	Siragam Akhil Kumar	24	66%
89	19T51R0089	Srivatsavai Lakshmi Sandili	18	50%
90	19T51R0090	Sunkara Anju Sree	30	83%
91	19T51R0091	Tadi Abhishek	30	83%
92	19T51R0092	Tapa Poojitha	18	50%
93	19T51R0093	Telapalli Haritha	30	83%
94	19T51R0094	Telikicherla Veenapani	24	66%
95	19T51R0095	Thamatapu Aravind	24	66%
96	19T51R0096	Toyaka Manisha	24	66%
97	19T51R0097	Vankayalapati Sai Sravani	30	83%
98	19T51R0098	Vantakula Lavanya	30	83%
99	19T51R0099	Yammala Vamsi	21	6%
100	19T51R01A1	Paspu Reddy Sharnalatha	36	100%
101	19T51R01A2	Koyya Roshini	18	50%
102	19T51R01A3	Simhadri Gnana Prasanna	24	66%

*B. Veerajyothi*

Course Coordinator



*N. Neelima*

HOD

*[Signature]*  
PRINCIPAL

Avanthi Institute of Pharmaceutical Sciences

Avanthi Institute of Pharmaceutical Sciences

CHERUKUPALLY (V)

CHITTIVALASA (S.O.)

Avanthi Institute of Pharmaceutical Sciences, Bhogapuram (M), Vizianagaram Dist

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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**POTHINA KAVYA**

Bearing roll no. **19T51R0076** pursuing **II B pharmacy** has successfully completed Value added Course on **"NEUROPHARMACOLOGY AND CNS MEDICATIONS"** held from 12-12-2022 to 17-12-2022.

*V. Alma Sankar*  
Convener



*[Signature]*  
Principal

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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**RATNALA BHARGAVI**

Bearing roll no. **19T51R0081** pursuing **II B pharmacy** has successfully completed Value added Course on **“NEUROPHARMACOLOGY AND CNS MEDICATIONS”** held from 12-12-2022 to 17-12-2022.

*V. UmaSankar*  
Convener



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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**REDDI BHAVANTHI**

Bearing roll no. **19T51R0082** pursuing **II B pharmacy** has successfully completed Value added Course on "**NEUROPHARMACOLOGY AND CNS MEDICATIONS**" held from 12-12-2022 to 17-12-2022.

*V. Mangalankar*  
Convener



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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**SAKA SESANKA**

Bearing roll no. **19T51R0083** pursuing **II B pharmacy** has successfully completed Value added Course on **"NEUROPHARMACOLOGY AND CNS MEDICATIONS"** held from 12-12-2022 to 17-12-2022.

*V. UmaSankar*  
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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**SARAPENTA HARINHADH**

Bearing roll no. **19T51R0084** pursuing **II B pharmacy** has successfully completed Value added Course on **"NEUROPHARMACOLOGY AND CNS MEDICATIONS"** held from 12-12-2022 to 17-12-2022.

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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**SUNKARA ANJU SREE**

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# CERTIFICATE

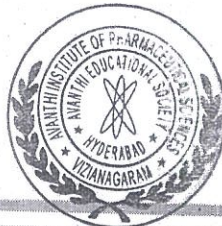
## OF PARTICIPATION

This certificate is proudly presented to

**TADI ABHISHEK**

Bearing roll no. **19T51R0091** pursuing **II B pharmacy** has successfully completed Value added Course on **"NEUROPHARMACOLOGY AND CNS MEDICATIONS"** held from 12-12-2022 to 17-12-2022.

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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**SIMHADRI GNANA PRASANNA**

Bearing roll no. **19T51R01A3** pursuing **II B pharmacy** has successfully completed Value added Course on "**NEUROPHARMACOLOGY AND CNS MEDICATIONS**" held from 12-12-2022 to 17-12-2022.

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Convener



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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**KONDALA ROJA RAMANI**

---

Bearing roll no. **19T51R0047** pursuing **II B pharmacy** has successfully completed Value added Course on **"NEUROPHARMACOLOGY AND CNS MEDICATIONS"** held from 12-12-2022 to 17-12-2022.

*V. UmaSankar*  
Convener



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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**KORNANA PAVAN KUMAR**

Bearing roll no. **19T51R0048** pursuing **II B pharmacy** has successfully completed Value added Course on **“NEUROPHARMACOLOGY AND CNS MEDICATIONS”** held from 12-12-2022 to 17-12-2022.

*V. Uma Sankar*  
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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**PADALA SHARON**

Bearing roll no. **19T51R0071** pursuing **II B pharmacy** has successfully completed Value added Course on **"NEUROPHARMACOLOGY AND CNS MEDICATIONS"** held from 12-12-2022 to 17-12-2022.

*V. Uma Sankar*  
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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**PALO SWATHI**

Bearing roll no. **19T51R0072** pursuing **II B pharmacy** has successfully completed Value added Course on **"NEUROPHARMACOLOGY AND CNS MEDICATIONS"** held from 12-12-2022 to 17-12-2022.

*V. Umabankar*  
Convener



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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**PASUPULETI BHANU PRAKASH**

Bearing roll no. **19T51R0073** pursuing **II B pharmacy** has successfully completed Value added Course on **"NEUROPHARMACOLOGY AND CNS MEDICATIONS"** held from 12-12-2022 to 17-12-2022.

*V. UmaSankar*  
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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**PATNAIKUNI SAI JAHNAVI**

Bearing roll no. **19T51R0074** pursuing **II B pharmacy** has successfully completed Value added Course on **“NEUROPHARMACOLOGY AND CNS MEDICATIONS”** held from 12-12-2022 to 17-12-2022.

*V. Uma Sankar*  
Convener



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## DEPARTMENT OF PHARMACY PRACTICE

Ref no: AIPS/Pharmacy Practice/2020-21/02

Date: 28-12-2020

### CIRCULAR

This is to inform all the students of IV B. Pharmacy that a value-added course will be conducted on the topic "Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization" from 04/01/2021 to 09/01/2021 interested students are required to sign-up for the above mentioned course with "Mr. Srinivas Reddy" Managing Director, Rainbow Labs.



  
Principal

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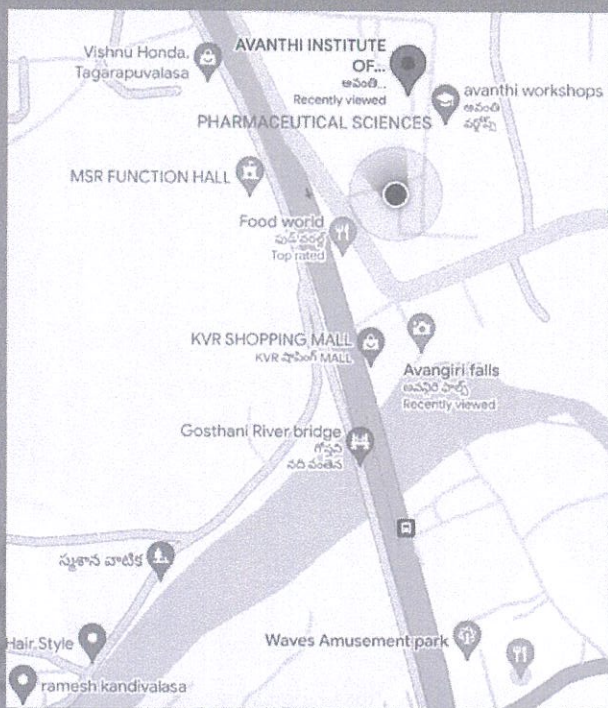
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## Institution

Avanthi Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapuvalasa Bridge adjacent to NH-16. Students of Avanthi boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



## Organizing Committee

### Cheif Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Mr. Srinivas Reddy,  
Managing Director



Rainbow Labs.

## Organizing Committee

Mr. V.H.S. Reddy, Assistant Professor

Mr. K.B.K. Raju, Assistant Professor

Mrs. I. Adi Lakshmi, Associate  
Professor

## Members

All the faculty from the Department  
of Pharmaceutical Sciences of the  
host institute



## 6 Days Workshop

On

## Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization

04-01-2021 to 09-01-2021

Organized By:

DEPARTMENT OF  
PHARMACY



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SCIENCES

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KAKINADA)

CHERUKUPALLY (VILLAGE), NEAR  
TAGARAPUVALASA BRIDGE,  
BHO GAPURAM MANDAL, VIZIANAGARAM

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---

Course Title	: Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2020-21
Course Instructor	: Mr. Srinivas Reddy, Rainbow Labs
Course Coordinator	: Mrs. B. Chaitanya, Associate Professor
Dates	: 04-01-2021 to 09-01-2021
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/B. Pharm/2020/02


## Objectives:

- Improved Sensitivity and Resolution
- Multi-Dimensional NMR
- Quantitative NMR
- High-Throughput NMR
- In situ and Real-Time NMR

## Out comes:

- Enhanced Structural Elucidation
- Protein and Biomolecular Analysis
- Metabolomics and Disease Diagnosis
- Materials Science Applications
- Pharmaceutical Research and Development
- Environmental Analysis



  
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## Syllabus

- 1. Introduction to NMR Spectroscopy**
  - Principles of NMR spectroscopy
  - Basic instrumentation and hardware
  - Chemical shift, spin-spin coupling, and relaxation processes
- 2. Advanced NMR Techniques**
  - Two-dimensional (2D) NMR spectroscopy
  - Three-dimensional (3D) and higher-dimensional NMR techniques
  - Homonuclear and heteronuclear correlation experiments
- 3. Quantitative NMR**
  - Quantitative analysis using NMR
  - Internal and external referencing methods
  - Absolute and relative quantification techniques
- 4. High-Throughput and Fast NMR**
  - High-throughput NMR methods
  - Fast acquisition techniques
  - Applications in combinatorial chemistry and drug discovery
- 5. In situ and Real-Time NMR**
  - In situ NMR spectroscopy principles
  - Real-time monitoring of chemical reactions
  - Applications in catalysis and reaction kinetics
- 6. NMR in Biomolecular Studies**
  - Protein NMR spectroscopy
  - Nucleic acid structure determination
  - Metabolomics and biomarker discovery

Course Coordinator



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*N. Neelima*  
HOD

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Avanthi Institute of Pharmaceutical Sciences  
CHERUKUPALLE (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



## TIMETABLE

### CLASS: IV B. PHARMACY

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization	Break	Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization	Lunch	Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization	Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization	Break	Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization	Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization
TUE									
WED									
THU									
FRI									
SAT									

*B. Chaitanya*  
Course Coordinator

*N. Neelima*  
HOD

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CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



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Reference book: "Pharmaceutical Analysis: A Textbook for Pharmacy Students and Pharmaceutical Chemists" by G. Vidya Sagar

S.NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	04-01-2021	6hrs	<b>1. Introduction to NMR Spectroscopy</b> <ul style="list-style-type: none"><li>Principles of NMR spectroscopy</li><li>Basic instrumentation and hardware</li><li>Chemical shift, spin-spin coupling, and relaxation processes</li></ul>
2.		05-01-2021	6hrs	<b>2. Quantitative NMR</b> <ul style="list-style-type: none"><li>Quantitative analysis using NMR</li><li>Internal and external referencing methods</li><li>Absolute and relative quantification techniques</li></ul>
3.		06-01-2021	6hrs	<b>3. Quantitative NMR</b> <ul style="list-style-type: none"><li>Quantitative analysis using NMR</li><li>Internal and external referencing methods</li><li>Absolute and relative quantification techniques</li></ul>
4.		07-01-2021	6hrs	<b>4. High-Throughput and Fast NMR</b> <ul style="list-style-type: none"><li>High-throughput NMR methods</li><li>Fast acquisition techniques</li><li>Applications in combinatorial chemistry and drug discovery</li></ul>
5.		08-01-2021	6hrs	<b>5. In situ and Real-Time NMR</b> <ul style="list-style-type: none"><li>In situ NMR spectroscopy principles</li><li>Real-time monitoring of chemical reactions</li><li>Applications in catalysis and reaction kinetics</li></ul>



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6.		09-01-2021	6hrs	<b>6. NMR in Biomolecular Studies</b> <ul style="list-style-type: none"><li>• Protein NMR spectroscopy</li><li>• Nucleic acid structure determination</li><li>• Metabolomics and biomarker discovery</li></ul>
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*B. Chaitanya*  
**Course Coordinator**

*N. Neelima*  
**HOD**

Avanthi Institute of Pharmaceutical Sciences  
CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



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**Assessment:**

- 1. Which of coming up next is a critical use of in situ NMR spectroscopy?**
  - a. Protein structure assurance
  - b. Checking synthetic responses continuously
  - c. Quantitative investigation of metabolites
  - d. High-throughput screening
- 2. What is the principal benefit of high-throughput NMR in compound examination?**
  - a. Higher responsiveness
  - b. Fast information procurement
  - c. Further developed goal
  - d. More prominent example volume
- 3. In biomolecular NMR, what is ordinarily concentrated on utilizing NMR spectroscopy?**
  - a. Polymer structures
  - b. Protein and nucleic corrosive designs
  - c. Inorganic mixtures
  - d. Metal-ligand associations
- 4. Which aspect of NMR gives data about coupling between various atomic twists?**
  - a. Zero-layered (0D)
  - b. One-layered (1D)
  - c. Two-layered (2D)
  - d. Three-layered (3D)
- 5. What is a typical utilization of NMR spectroscopy in drug research?**
  - a. Investigation of natural poisons
  - b. Primary portrayal of impetuses
  - c. Drug improvement and approval
  - d. Quality control of food items
- 6. Which arising pattern in NMR spectroscopy includes upgrading signal power for specific cores to further develop responsiveness?**
  - a. Hyperpolarization
  - b. Quick obtaining
  - c. Continuous checking
  - d. Multi-layered spectroscopy
- 7. What is the essential guideline behind Atomic Attractive Reverberation (NMR) spectroscopy?**
  - a. Electron excitation
  - b. Radioactive rot
  - c. Attractive reverberation of nuclear cores
  - d. Infrared assimilation



  
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8. Which sort of NMR explore gives data about spatial connections between iotas in a particle?
  - a. One-layered (1D) NMR
  - b. Two-layered (2D) NMR
  - c. Three-layered (3D) NMR
  - d. Fourier-change NMR
9. What is the motivation behind quantitative NMR in compound examination?
  - a. Deciding sub-atomic weight
  - b. Concentrating on response energy
  - c. Estimating focus
  - d. Dissecting sub-atomic design
10. Which term alludes to the peculiarity where NMR signals rot over the long run because of sub-atomic movement?
  - a. Unwinding
  - b. Turn coupling
  - c. Synthetic shift
  - d. Polarization

*B. Chaitanya*  
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Date : 04-01-2021 to 09-01-2021  
No. of Students Enrolled : 79  
Subject : Advances in NMR Spectroscopy for Chemical Analysis and  
Molecular Characterization IV B. Pharmacy

S. No	Roll. No	Student Name
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2	17T51R0002	Addagalla Mohini
3	17T51R0003	Adibhatla Gowri Teja Sree
4	17T51R0004	Allu Sudheer
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14	17T51R0015	Byreddy Samyuktha
15	17T51R0016	Chokkakula Jyothi
16	17T51R0018	Dasari Saibhargavi
17	17T51R0019	Dharmavarapu Abhiram
18	17T51R0020	Duvvana Sreekanth Dora



  
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19	17T51R0021	Ganivada Geethashankara Rao
20	17T51R0022	Ganta Chakradhar
21	17T51R0023	Garbhapu Vamsi
22	17T51R0024	Gembali Rohith
23	17T51R0025	Gopisetty Neelima
24	17T51R0026	Gorinta Priyanka
25	17T51R0027	Gorruptu Dakshayani
26	17T51R0028	Vennela Manohar
27	17T51R0029	Illipilli Madhuri Priya
28	17T51R0030	Jamma Dakshayani
29	17T51R0031	Kaligotla Naga Hima Bindu
30	17T51R0032	Kalisetty Harichandana
31	17T51R0033	Karri Aparna
32	17T51R0034	Kesamsetty V Sai Aparna Lahari Likhita
33	17T51R0035	Kola Srivalli
34	17T51R0036	Kolati Samyuktha
35	17T51R0037	Kuddigana Rahul
36	17T51R0038	Madasi Karthik
37	17T51R0039	Marla Prudhvi Raj
38	17T51R0040	Marthi Arjuna
39	17T51R0041	Matha Sai Lakshmi
40	17T51R0042	Matta Priyanka



  
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42	17T51R0044	Meka Vamsika
43	17T51R0046	Migada Durga Devi
44	17T51R0047	Mindi Pavani
45	17T51R0048	Mudadla Pavani
46	17T51R0049	Mulli Sai Kiran
47	17T51R0050	Musinana Reshma
48	17T51R0051	Nagireddi Mounika
49	17T51R0052	Padala Anil
50	17T51R0053	Palaka Madhu
51	17T51R0054	Palli Renuka
52	17T51R0055	Velugula Mounica Sri
53	17T51R0056	Parveen
54	17T51R0057	Pollai Santhosh
55	17T51R0058	Pothala Sai Kumar
56	17T51R0059	Potupureddi Sivakali Bhargavi
57	17T51R0060	Rajana Devi Priyanka
58	17T51R0061	Ratnala Rachana
59	17T51R0062	Ratnala Sharmila
60	17T51R0063	Reddy Bhagya Laxmi
61	17T51R0064	Rongali Vandana
62	17T51R0065	Ruttala Manikatha Swami



  
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63	17T51R0066	Ruttala Manjusha
64	17T51R0067	Sallapudi Srivalli
65	17T51R0068	Sankurubothu Kedhashritha
66	17T51R0070	Savarapu Yesubabu
67	17T51R0071	Seerapu Esthere Rani
68	17T51R0072	Siddani Sruthi Suvarchala
69	17T51R0073	Sowdiwada Praneetha
70	17T51R0074	Sri Siva Rupa Chikkala
71	17T51R0076	Suvvada Swathi
72	17T51R0077	Tammena Aparna
73	17T51R0078	Yeluru Monika
74	17T51R0079	Turpati Prameela
75	17T51R0080	Uppada Suryam
76	17T51R0081	Uppada Vasantha
77	17T51R0082	Vanthala Priyanka
78	18T55R0001	Reshma
79	18T55R0002	P. Bhuvaneshwari

*B. Chaitanya*  
**Course Coordinator**

*N. Neelima*  
**HOD**



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The students of 4<sup>th</sup> B. Pharm certificate program attending “ **ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**” by Mr. Srinivas Reddy, Rainbow Labs



  
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Date : 04-01-2021 to 09-01-2021  
No. of Students Enrolled 79  
Subject : Advances in NMR Spectroscopy for Chemical Analysis and  
Molecular Characterization IV B. Pharmacy

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	17T51R0001	Adari Karishma Vara Sai Venkata Laxmi	36	100%
2	17T51R0002	Addagalla Mohini	30	83%
3	17T51R0003	Adibhatla Gowri Teja Sree	36	100%
4	17T51R0004	Allu Sudheer	30	83%
5	17T51R0006	Bavarpu Durga Prasad	36	100%
6	17T51R0007	Bendalam Laya	30	83%
7	17T51R0008	Billakurthi Jyothsna	24	66%
8	17T51R0009	Vudata Rachana	36	100%
9	17T51R0010	Bonangi Saidevi	nil	0%
10	17T51R0011	Bondu Durgaprasad	30	83%
11	17T51R0012	Bonila Anitha	36	100%
12	17T51R0013	Bonu Priyanka	30	83%
13	17T51R0014	Buddharaju Lekha	30	83%
14	17T51R0015	Byreddy Samyuktha	30	83%
15	17T51R0016	Chokkakula Jyothi	24	66%
16	17T51R0018	Dasari Saibhargavi	36	100%
17	17T51R0019	Dharmavarapu Abhiram	36	100%



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Date : 23-11-2020 to 28-11-2020

Subject : Advances in NMR Spectroscopy for Chemical Analysis and Molecular Characterization  
IV B. Pharmacy

S. No	Roll No.	Student Name	23/11/20	24/11/20	25/11/20	26/11/20	27/11/20	28/11/20
1	17T51R0001	Adari KarishmaVara Sai VenkataLaxmi	✓	✓	✓	✓	✓	✓
2	17T51R0002	Addagalla Mohini	✓	A	✓	✓	✓	✓
3	17T51R0003	Adibhatla Gowri TejaSree	✓	✓	✓	✓	✓	✓
4	17T51R0004	Allu Sudheer	✓	A	✓	✓	✓	✓
5	17T51R0006	Bavarpu Durga Prasad	✓	✓	✓	✓	✓	✓
6	17T51R0007	Bendalam I.aya	✓	✓	✓	✓	✓	A
7	17T51R0008	Billakurthi Jyothsna	A	✓	✓	✓	A	✓
8	17T51R0009	Vudata Rachana	✓	✓	✓	✓	✓	✓
9	17T51R0010	Bonangi Saidevi	A	A	A	A	A	A
10	17T51R0011	Bondu Durgaprasad	✓	✓	✓	✓	A	✓
11	17T51R0012	Bonila Anitha	✓	✓	✓	✓	✓	✓
12	17T51R0013	Bonu Priyanka	A	✓	✓	✓	✓	✓
13	17T51R0014	Buddharaju Lekha	✓	✓	✓	✓	A	✓
14	17T51R0015	Byreddy Samyuktha	✓	✓	✓	✓	A	✓
15	17T51R0016	Chokkakula Jyothi	✓	✓	A	✓	✓	A
16	17T51R0018	Dasari Saibhargavi	✓	✓	✓	✓	✓	✓
17	17T51R0019	Dharmavarapu Abhiram	✓	✓	✓	✓	✓	✓
18	17T51R0020	Duvvana Sreekanth Dora	✓	A	✓	✓	✓	✓

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19	17T51R0021	Ganivada Geetha shankara Rao	✓	✓	✓	✓	✓	✓
20	17T51R0022	Ganta Chakradhar	✓	A	✓	✓	✓	✓
21	17T51R0023	Garbhapu Vamsi	✓	A	✓	✓	A	✓
22	17T51R0024	Gembali Rohith	✓	✓	✓	✓	✓	✓
23	17T51R0025	Gopisetty Neelima	✓	✓	✓	A	✓	✓
24	17T51R0026	Gorinta Priyanka	✓	✓	✓	✓	✓	✓
25	17T51R0027	Gorruptu Dakshayani	✓	A	✓	✓	✓	✓
26	17T51R0028	Vennela Manohar	✓	A	✓	✓	✓	✓
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28	17T51R0030	Jamma Dakshayani	✓	✓	✓	✓	✓	✓
29	17T51R0031	Kaligotla Naga Hima Bindu	A	A	A	A	A	A
30	17T51R0032	Kalisetti iHarichandana	✓	✓	✓	✓	✓	✓
31	17T51R0033	Karri Aparna	✓	✓	✓	✓	✓	✓
32	17T51R0034	Kesamsetty V Sai Aparna Lahari Likhita	A	✓	✓	✓	✓	A
33	17T51R0035	Kola Srivalli	✓	✓	✓	✓	✓	✓
34	17T51R0036	Kolati Samyuktha	✓	✓	✓	✓	✓	✓
35	17T51R0037	Kuddigana Rahul	✓	✓	A	✓	✓	✓
36	17T51R0038	Madasi Karthik	✓	✓	✓	✓	✓	A
37	17T51R0039	Marla Prudhvi Raj	✓	✓	✓	✓	✓	✓
38	17T51R0040	Marthi Arjuna	✓	✓	✓	✓	✓	✓
39	17T51R0041	Matha Sai Lakshmi	A	A	A	A	A	A
40	17T51R0042	Matta Priyanka	✓	✓	✓	✓	✓	✓

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42	17T51R0044	Meka Vamsika	✓	A	✓	✓	✓	✓	✓
43	17T51R0046	Migada Durga Devi	✓	✓	✓	✓	A	✓	✓
44	17T51R0047	Mindi Pavani	✓	✓	✓	✓	✓	✓	✓
45	17T51R0048	Mudadla Pavani	✓	A	✓	✓	✓	✓	✓
46	17T51R0049	Mulli Sai Kiran	A	✓	✓	✓	✓	A	✓
47	17T51R0050	Musinana Reshma	✓	✓	✓	✓	A	✓	✓
48	17T51R0051	Nagireddi Mounika	✓	✓	✓	✓	✓	✓	✓
49	17T51R0052	Padala Anil	✓	A	✓	✓	✓	✓	✓
50	17T51R0053	Palaka Madhu	✓	✓	✓	✓	✓	✓	✓
51	17T51R0054	Palli Renuka	✓	✓	✓	A	✓	✓	✓
52	17T51R0055	Velugula Mounica Sri	✓	✓	✓	✓	✓	✓	✓
53	17T51R0056	Parveen	A	A	A	A	A	A	A
54	17T51R0057	Pollai Santhosh	✓	✓	✓	A	✓	✓	✓
55	17T51R0058	Pothala Sai Kumar	✓	✓	✓	✓	✓	✓	✓
56	17T51R0059	Potupureddi Sivakali Bhargavi	✓	✓	✓	✓	✓	✓	✓
57	17T51R0060	Rajana Devi Priyanka	A	✓	✓	✓	✓	✓	✓
58	17T51R0061	Ratnala Rachana	✓	✓	✓	✓	✓	✓	A
59	17T51R0062	Ratnala Sharmila	✓	✓	✓	✓	✓	✓	✓
60	17T51R0063	Reddy Bhagya Laxmi	✓	✓	✓	✓	A	✓	✓
61	17T51R0064	Rongali Vandana	✓	✓	✓	A	✓	✓	✓
62	17T51R0065	Ruttala Manikatha Swami	✓	✓	✓	✓	A	✓	✓

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63	17T51R0066	Ruttala Manjusha	✓	✓	A	✓	✓	✓
64	17T51R0067	Sallapudi Srivalli	✓	✓	✓	✓	A	✓
65	17T51R0068	Sankurubothu Kedhashritha	✓	✓	✓	✓	A	✓
66	17T51R0070	Savarapu sYesubabu	✓	✓	✓	✓	✓	A
67	17T51R0071	Seerapu Esthere Rani	✓	✓	✓	✓	✓	✓
68	17T51R0072	Siddani Sruthi Suvarchala	✓	✓	✓	✓	✓	✓
69	17T51R0073	Sowdiwada Praneetha	✓	✓	✓	✓	✓	✓
70	17T51R0074	Sri Siva Rupa Chikkala	✓	✓	✓	✓	✓	✓
71	17T51R0076	Suvvada Swathi	✓	✓	✓	✓	✓	✓
72	17T51R0077	Tammena Aparna	✓	✓	✓	✓	✓	A
73	17T51R0078	Yeluru Monika	✓	✓	✓	✓	✓	✓
74	17T51R0079	Turpati Prameela	✓	✓	✓	✓	✓	✓
75	17T51R0080	Uppada Suryam	✓	✓	✓	A	✓	✓
76	17T51R0081	Uppada Vasantha	✓	✓	✓	✓	✓	✓
77	17T51R0082	Vanthala Priyanka	A	A	A	A	A	A
78	18T55R0001	Reshma	✓	A	✓	✓	✓	✓
79	18T55R0002	P. Bhuvanewari	✓	✓	✓	✓	✓	✓

*B. Chaitanya*  
Course Coordinator

*N. Neelima*  
HOD

Avanthi Institute of Pharmaceutical Sciences  
CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist

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[www.avanthipharma.ac.in](http://www.avanthipharma.ac.in), [principal@avanthipharma.ac.in](mailto:principal@avanthipharma.ac.in)

18	17T51R0020	Duvvana Sreekanth Dora	30	83%
19	17T51R0021	Ganivada Geethashankara Rao	36	100%
20	17T51R0022	Ganta Chakradhar	30	83%
21	17T51R0023	Garbhapu Vamsi	24	66%
22	17T51R0024	Gembali Rohith	36	100%
23	17T51R0025	Gopisetty Neelima	30	83%
24	17T51R0026	Gorinta Priyanka	36	100%
25	17T51R0027	Gorupotu Dakshayani	30	83%
26	17T51R0028	Vennela Manohar	30	83%
27	17T51R0029	Illipilli Madhuri Priya	30	83%
28	17T51R0030	Jamma Dakshayani	36	100%
29	17T51R0031	Kaligotla Naga Hima Bindu	nil	0%
30	17T51R0032	Kalisetti Harichandana	36	100%
31	17T51R0033	Karri Aparna	36	100%
32	17T51R0034	Kesamsetty V Sai Aparna Lahari Likhita	24	66%
33	17T51R0035	Kola Srivalli	36	100%
34	17T51R0036	Kolati Samyuktha	36	100%
35	17T51R0037	Kuddigana Rahul	30	83%
36	17T51R0038	Madasi Karthik	30	83%
37	17T51R0039	Marla Prudhvi Raj	36	100%
38	17T51R0040	Marthi Arjuna	36	100%
39	17T51R0041	Matha Sai Lakshmi	nil	0%



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40	17T51R0042	Matta Priyanka	36	100%
41	17T51R0043	Meka Pavan Kalyan	30	83%
42	17T51R0044	Meka Vamsika	30	83%
43	17T51R0046	Migada Durga Devi	30	83%
44	17T51R0047	Mindi Pavani	36	100%
45	17T51R0048	Mudadla Pavani	30	83%
46	17T51R0049	Mulli Sai Kiran	24	66%
47	17T51R0050	Musinana Reshma	30	83%
48	17T51R0051	Nagireddi Mounika	36	100%
49	17T51R0052	Padala Anil	30	83%
50	17T51R0053	Palaka Madhu	36	100%
51	17T51R0054	Palli Renuka	30	83%
52	17T51R0055	Velugula Mounica Sri	36	100%
53	17T51R0056	Parveen	nil	0%
54	17T51R0057	Pollai Santhosh	30	83%
55	17T51R0058	Pothala Sai Kumar	36	100%
56	17T51R0059	Potupureddi Sivakali Bhargavi	36	100%
57	17T51R0060	Rajana Devi Priyanka	30	83%
58	17T51R0061	Ratnala Rachana	30	83%
59	17T51R0062	Ratnala Sharmila	36	100%
60	17T51R0063	Reddy Bhagya Laxmi	30	83%
61	17T51R0064	Rongali Vandana	30	83%



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62	17T51R0065	Ruttala Manikatha Swami	30	83%
63	17T51R0066	Ruttala Manjusha	30	83%
64	17T51R0067	Sallapudi Srivalli	30	83%
65	17T51R0068	Sankurubothu Kedhashritha	30	83%
66	17T51R0070	Savarapu Yesubabu	30	83%
67	17T51R0071	Seerapu Esthere Rani	36	100%
68	17T51R0072	Siddani Sruthi Suvarchala	36	100%
69	17T51R0073	Sowdiwada Praneetha	36	100%
70	17T51R0074	Sri Siva Rupa Chikkala	36	100%
71	17T51R0076	Suvvada Swathi	36	100%
72	17T51R0077	Tammena Aparna	30	83%
73	17T51R0078	Yeluru Monika	36	100%
74	17T51R0079	Turpati Prameela	36	100%
75	17T51R0080	Uppada Suryam	30	83%
76	17T51R0081	Uppada Vasantha	36	100%
77	17T51R0082	Vanthala Priyanka	nil	0%
78	18T55R0001	Reshma	30	83%
79	18T55R0002	P Bhuvanewari	36	100%

*B. Chaitanya*

**Course Coordinator**

*N. Neelima*

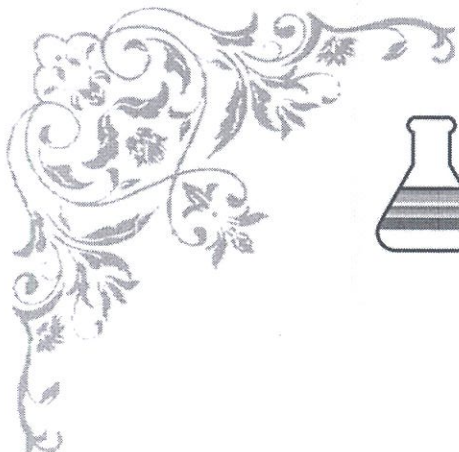
**HOD**



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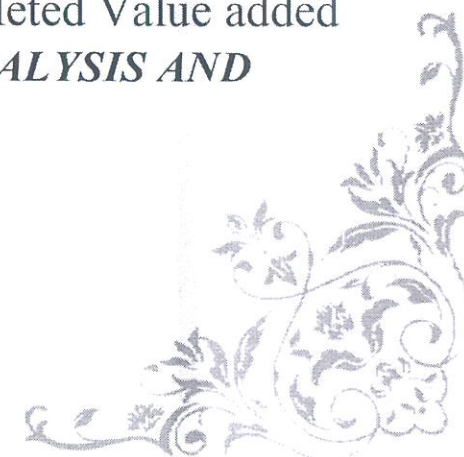
**MEKA PAVAN KALYAN**

---

Bearing roll no. **17T51R0043** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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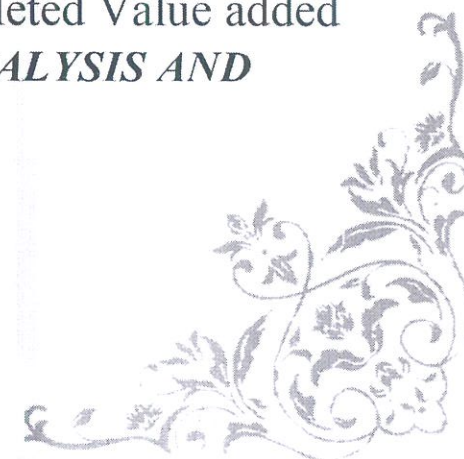
**MULLI SAI KIRAN**

---

Bearing roll no. **17T51R0049** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

*V. Mungamkar*  
CONVENER

*[Signature]*  
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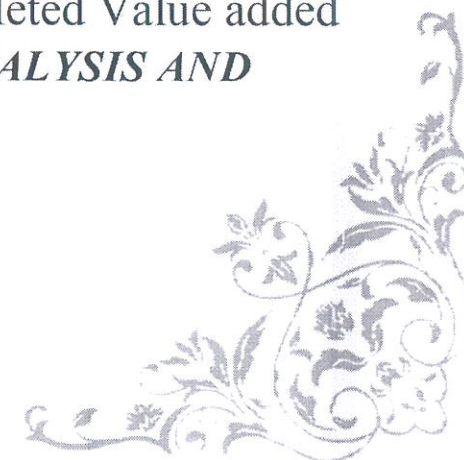
**MUSINANA RESHMA**

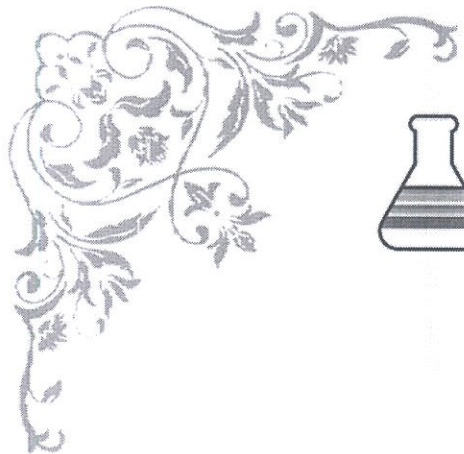
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Bearing roll no. **17T51R0050** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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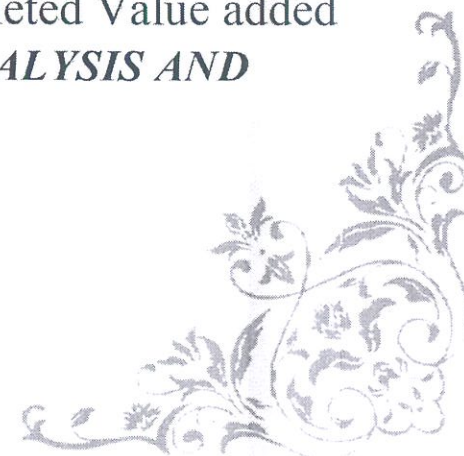
**JAMMA DAKSHAYANI**

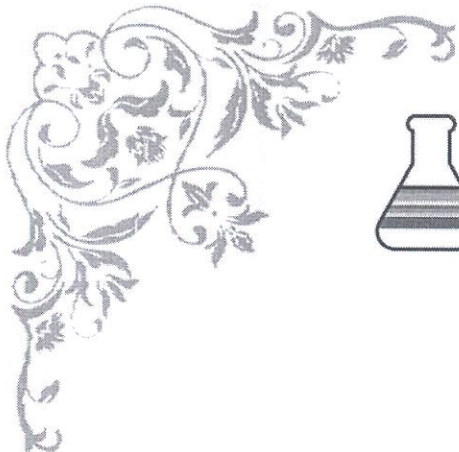
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Bearing roll no. **17T51R0030** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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**KALIGOTLA NAGA HIMA BINDU**

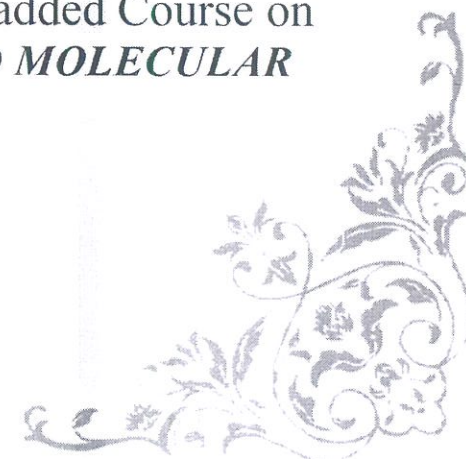
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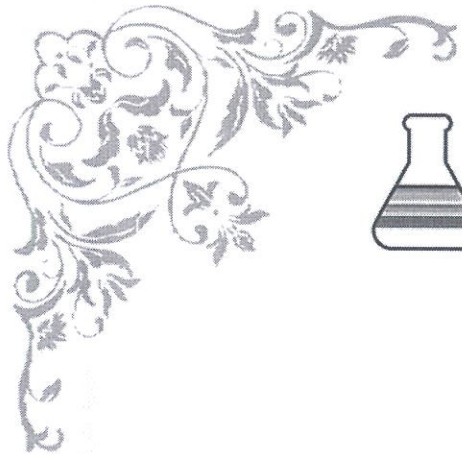
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CHARACTERIZATION”***

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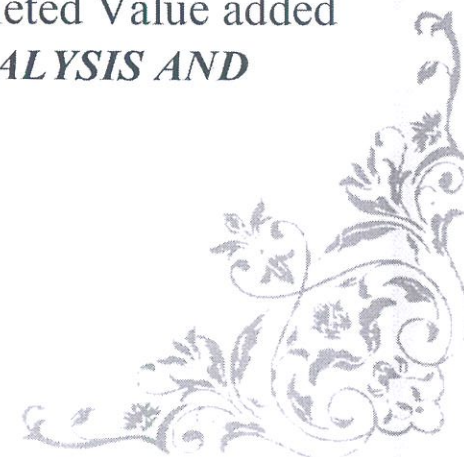
**KALISSETTI HARICHANDANA**

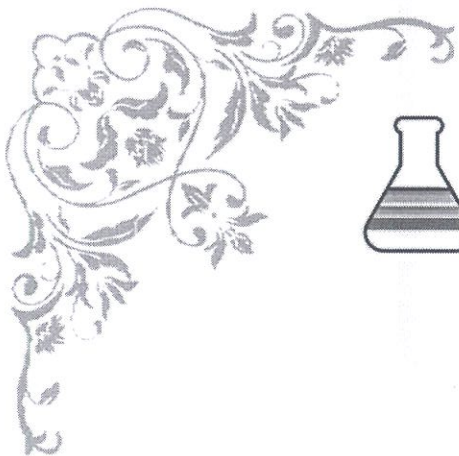
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Bearing roll no. **17T51R0032** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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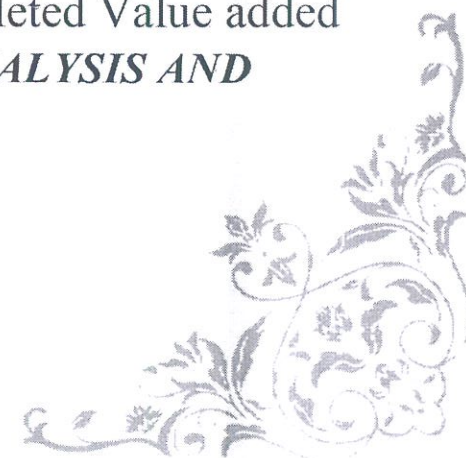
**KARRI APARNA**

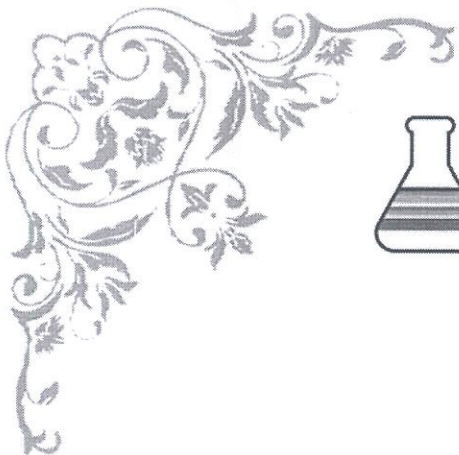
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Bearing roll no. **17T51R0033** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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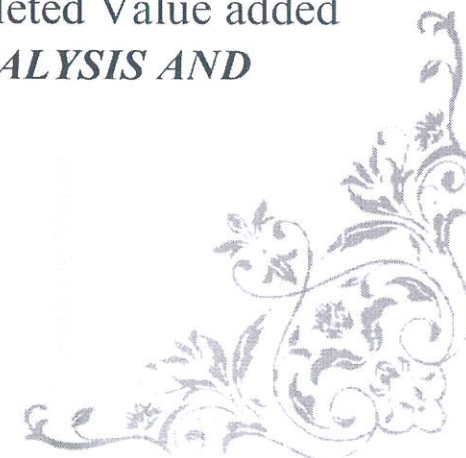
**KESAMSETTY V SAI APARNA LAHARI LIKHITA**

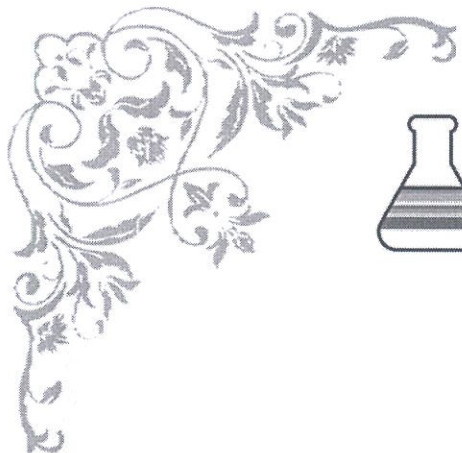
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Bearing roll no. **17T51R0034** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

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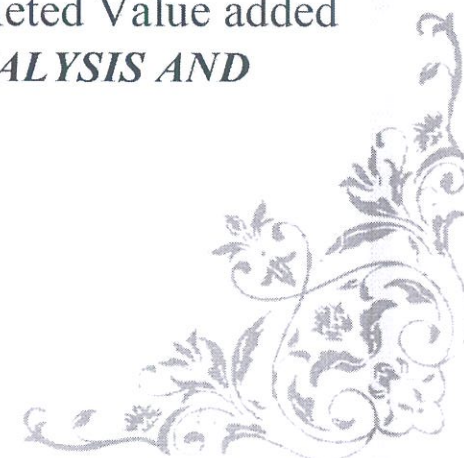
**KOLA SRIVALLI**

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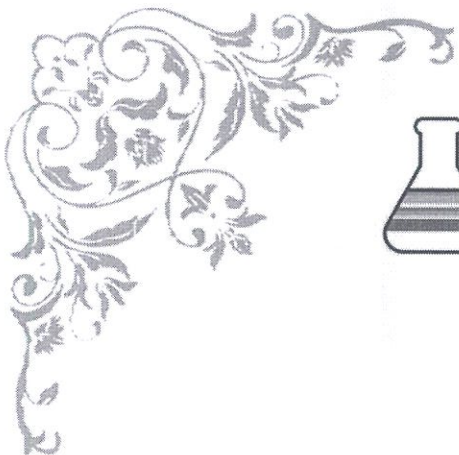
Bearing roll no. **17T51R0035** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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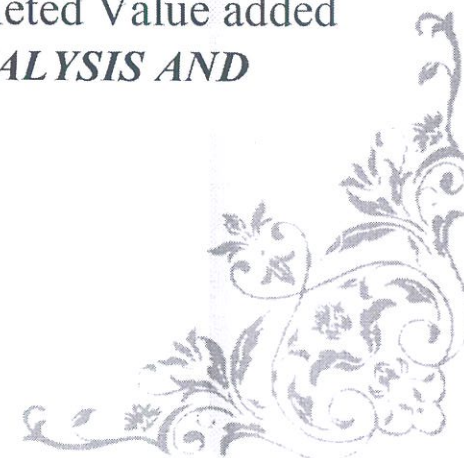
**MARTHI ARJUNA**

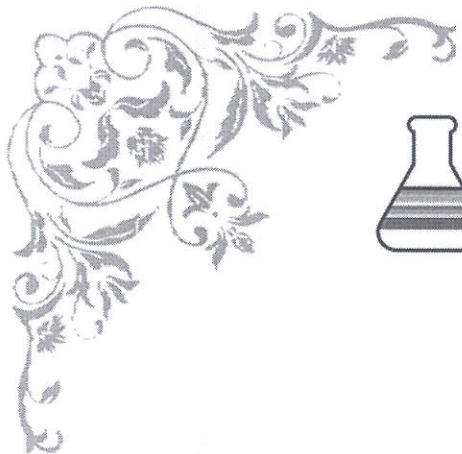
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Bearing roll no. **17T51R0040** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

*V. Munjankar*  
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*Ar*  
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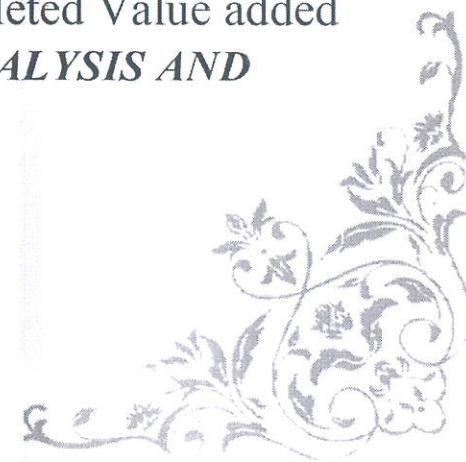
**MATHA SAI LAKSHMI**

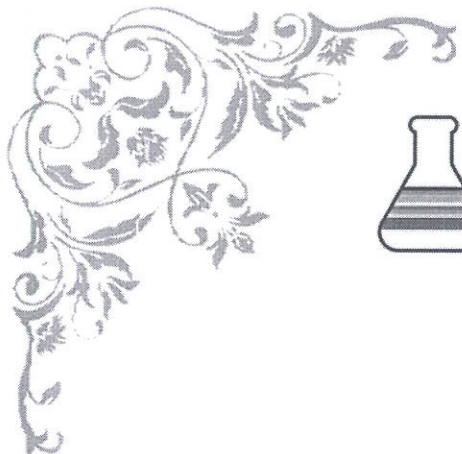
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Bearing roll no. **17T51R0041** pursuing IV B Pharmacy has successfully completed Value added Course on “**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**” held from 04-01-2021 to 09-01-2021.

*V. Murugan*  
CONVENER

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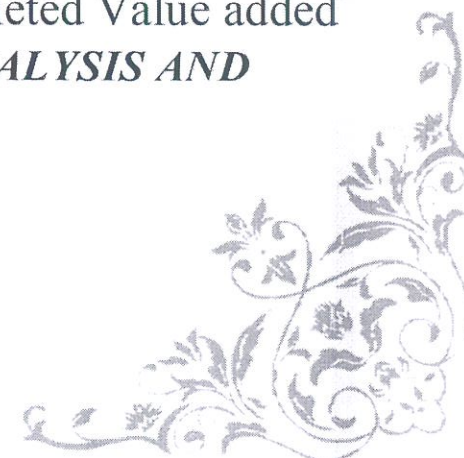
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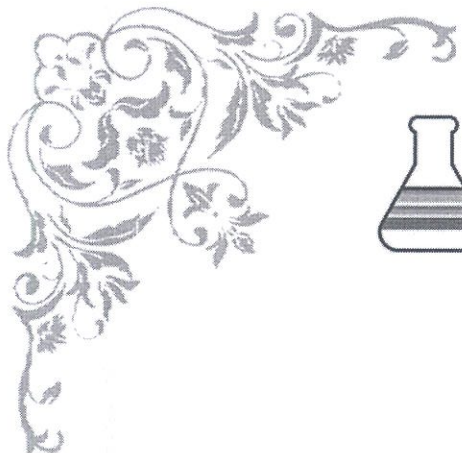
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Bearing roll no. **17T51R0042** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

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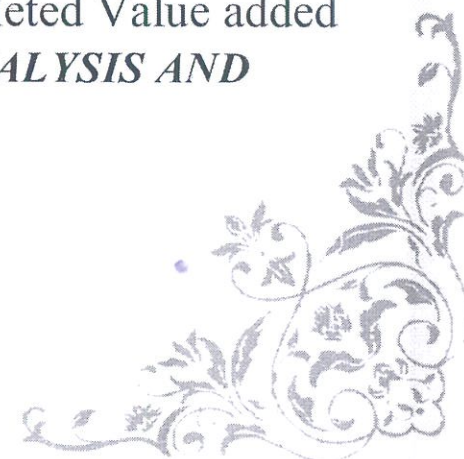
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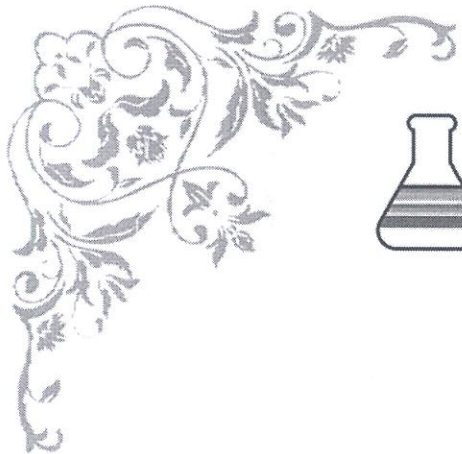
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Bearing roll no. **17T51R0029** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

*V. Dhargankar*  
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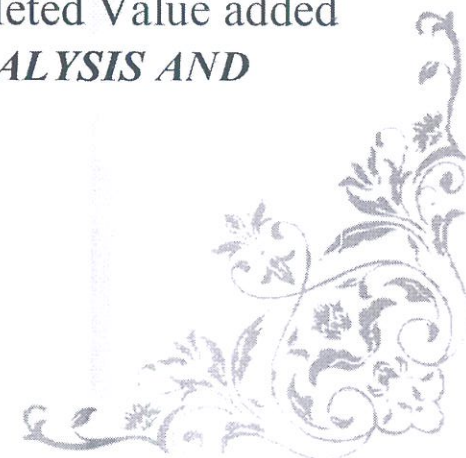
**DASARI SAIBHARGAVI**

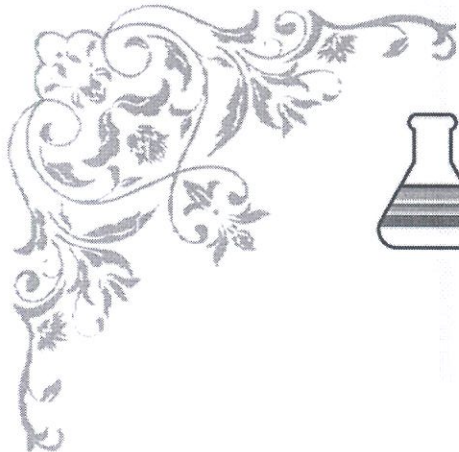
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Bearing roll no. **17T51R0018** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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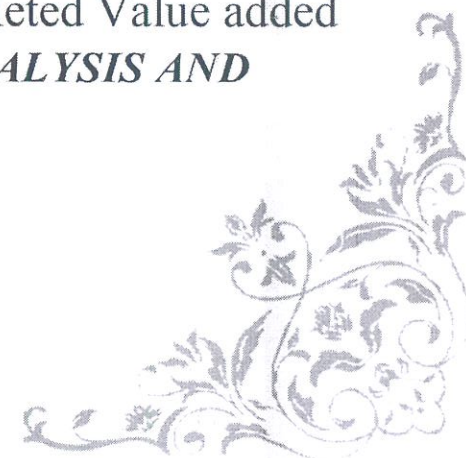
**CHOKKAKULA JYOTHI**

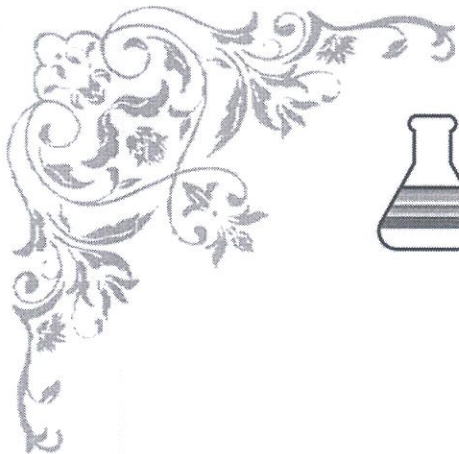
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Bearing roll no. **17T51R0016** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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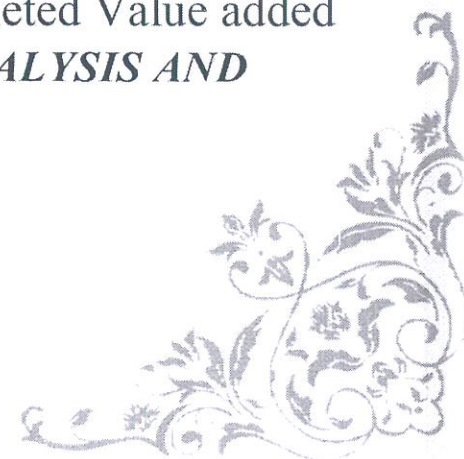
**BYREDDY SAMYUKTHA**

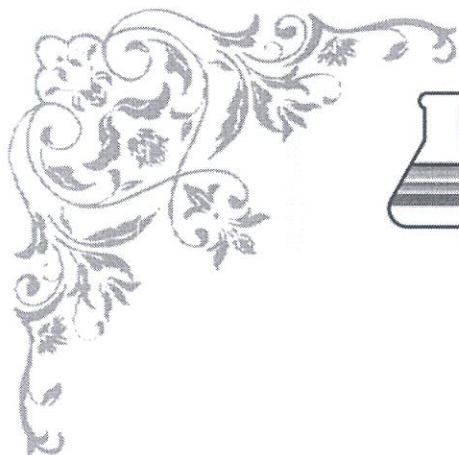
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Bearing roll no. **17T51R0015** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

*V. Murugankar*  
CONVENER

*[Signature]*  
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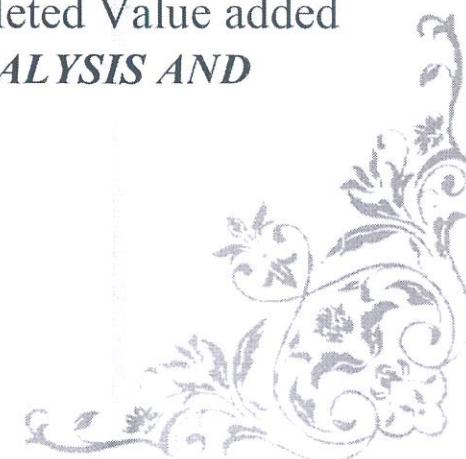
**BAVARPU DURGA PRASAD**

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Bearing roll no. **17T51R0006** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

  
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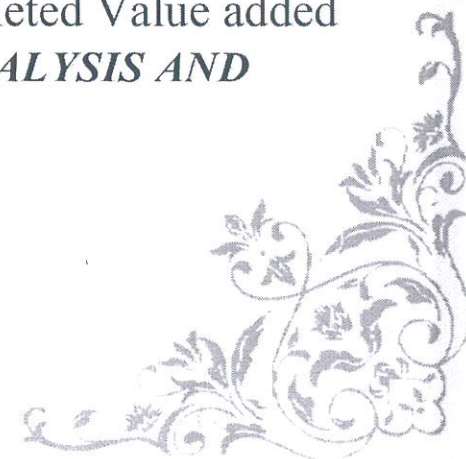
**BENDALAM LAYA**

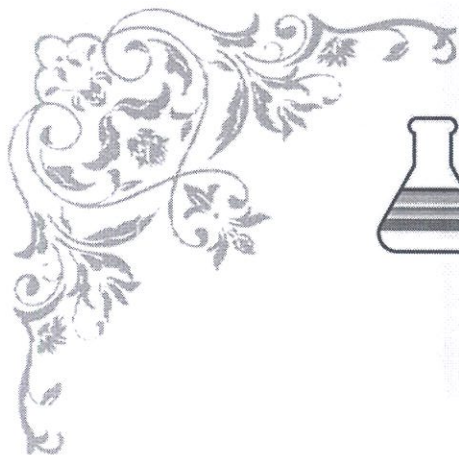
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Bearing roll no. **17T51R0007** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

*V. Srinivas Kumar*  
CONVENER

*[Signature]*  
PRINCIPAL





**RAINBOW  
LABS**



ESTD : 2005

# C E R T I F I C A T E

OF PARTICIPATION

This certificate is presented to:

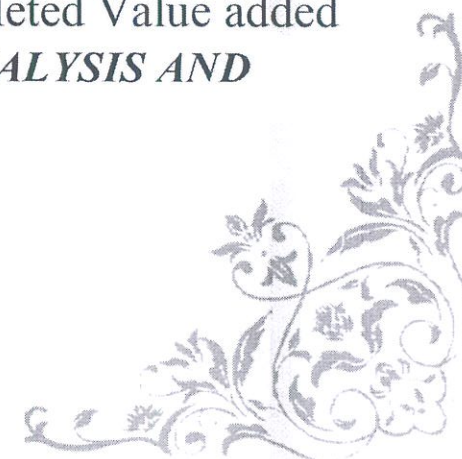
**BILLAKURTHI JYOTHSNA**

---

Bearing roll no. **17T51R0008** pursuing IV B Pharmacy has successfully completed Value added Course on "**ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION**" held from 04-01-2021 to 09-01-2021.

*V. Mungamkar*  
CONVENER

*[Signature]*  
PRINCIPAL





**RAINBOW  
LABS**



ESTD : 2005

# C E R T I F I C A T E

OF PARTICIPATION

This certificate is presented to:

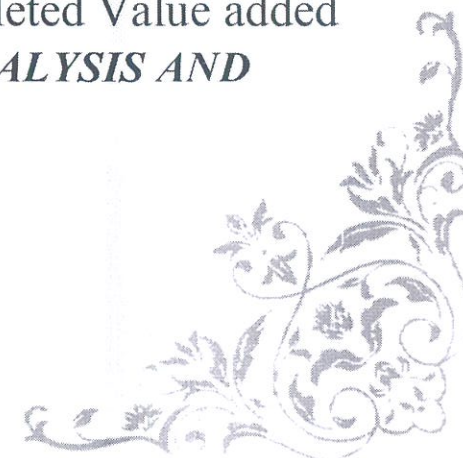
**BUDDHARAJU LEKHA**

---

Bearing roll no. **17T51R0014** pursuing IV B Pharmacy has successfully completed Value added Course on ***“ADVANCES IN NMR SPECTROSCOPY FOR CHEMICAL ANALYSIS AND MOLECULAR CHARACTERIZATION”*** held from 04-01-2021 to 09-01-2021.

*V. Shingamkar*  
CONVENER

*[Signature]*  
PRINCIPAL





**DEPARTMENT OF PHARMACY PRACTICE**


Ref no: AIPS/Pharmacy Practice/2020-21/03

Date: 11-01-2021

**CIRCULAR**

This is to inform all the students of VI Pharm. D that a value-added course will be conducted on the topic “Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling” from 18/01/2021 to 23/01/2021 interested students are required to sign-up for the above mentioned course with “**Dr. PAVANI**” Associate Professor in the Department of Pharmacy.



  
**Principal**  
**PRINCIPAL**  
Avanathi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162

## Institution

Avanthi Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapuvalasa Bridge adjacent to NH-16. Students of Avanthi boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



## Organizing Committee

### Cheif Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Dr. Pavani,  
Professor,



Srinivasa College of  
Pharmacy.

## Organizing Committee

Dr. V. C. Randeep Raj, Assistant  
Professor

Dr. M. S. V. Sudeep, Assistant  
Professor

Dr. B. Harini Priya, Assistant  
Professor

## Members

All the faculty from the Department  
of Pharmaceutical Sciences, the  
host institute

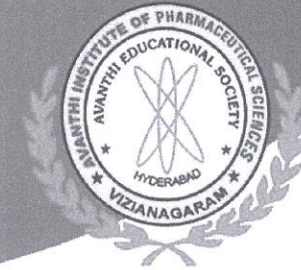


## 6 Days Workshop On Enhancement of Pharmaceutical Services through Medication Management and Patient Counselling

18-01-2021 to 23-01-2021

Organized By:

DEPARTMENT OF  
PHARMACY PRACTICE



## AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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DELHI, AFFILIATED TO J.N.T.U.K,  
KAKINADA)

CHERUKUPALLY (VILLAGE), NEAR  
TAGARAPUVALASA BRIDGE,  
BHOGAPURAM (MANDAL), VIZIANAGARAM  
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Course Title	: Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2020-21
Course Instructor	: Dr. M. Pavani, Professor, Srinivasa college of Pharmacy, PM Palem, Visakhapatnam
Course Coordinator	: Dr. V. C. Randeep Raj, Assistant Professor
Dates	: 18-01-2021 to 23-01-2021
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/Pharm. D/2020/ 03


## Objectives:

- Optimize Medication Therapy
- Improve Medication Adherence
- Enhance Patient Education
- Promote Patient Safety
- Facilitate Chronic Disease Management
- Improve Health Outcomes

## Outcomes:

- Increased Medication Adherence
- Enhanced Patient Satisfaction
- Reduced Hospitalizations
- Improved Quality of Life
- Cost Savings
- Optimized Therapy
- Enhanced Collaboration with Healthcare Providers
- Reduced Healthcare Disparities



  
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## Syllabus

### 1. Introduction to Pharmaceutical Services and Medication Management

- Overview of pharmaceutical services
- Evolution of the pharmacist's role
- Principles of medication therapy management (MTM)

### 2. Medication Safety and Adverse Drug Reactions

- Medication errors and prevention
- Reporting and analysis of adverse drug reactions
- Strategies for promoting medication safety

### 3. Patient Counselling Skills

- Effective communication in healthcare
- Patient-centred care
- Counselling techniques and patient engagement

### 4. Health Literacy and Patient Education

- Importance of health literacy
- Designing patient education materials
- Methods for improving patient understanding

### 5. Medication Adherence

- Factors influencing adherence
- Assessment of patient adherence
- Interventions to improve adherence

### 6. Chronic Disease Management

- Role of pharmacists in chronic disease management
- Collaborative care models
- Medication management in chronic conditions

Course Coordinator

HOD



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## TIMETABLE

### CLASS: VI PHARM. D

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20
MON	Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling	Break	Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling	Lunch	Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling	Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling	Break	Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling	Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling
TUE									
WED									
THU									
FRI									
SAT									

Course Coordinator

HOD

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Reference Book: "Pharmacotherapy: A Pathophysiologic Approach" by Joseph T. DiPiro et al.

S.NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	18-01-2021	6hrs	<b>1. Introduction to Pharmaceutical Services and Medication Management</b> <ul style="list-style-type: none"><li>• Overview of pharmaceutical services</li><li>• Evolution of the pharmacist's role</li><li>• Principles of medication therapy management (MTM)</li></ul>
2.		19-01-2021	6hrs	<b>2. Medication Safety and Adverse Drug Reactions</b> <ul style="list-style-type: none"><li>• Medication errors and prevention</li><li>• Reporting and analysis of adverse drug reactions</li><li>• Strategies for promoting medication safety</li></ul>
3.		20-01-2021	6hrs	<b>3. Patient Counselling Skills</b> <ul style="list-style-type: none"><li>• Effective communication in healthcare</li><li>• Patient-centred care</li><li>• Counselling techniques and patient engagement</li></ul>
4.		21-01-2021	6hrs	<b>4. Health Literacy and Patient Education</b> <ul style="list-style-type: none"><li>• Importance of health literacy</li><li>• Designing patient education materials</li><li>• Methods for improving patient understanding</li></ul>

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5.		22-01-2021	6hrs	<b>5. Medication Adherence</b> <ul style="list-style-type: none"><li>• Factors influencing adherence</li><li>• Assessment of patient adherence</li><li>• Interventions to improve adherence</li></ul>
6.		23-01-2021	6hrs	<b>6. Chronic Disease Management</b> <ul style="list-style-type: none"><li>• Role of pharmacists in chronic disease management</li><li>• Collaborative care models</li><li>• Medication management in chronic conditions</li></ul>

  
Course Coordinator

  
HOD

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## Assessment:

1. **What is the essential objective of prescription treatment the board (MTM)?**
  - a. Boosting benefits
  - b. Improving patient results
  - c. Limiting patient contact
  - d. Speeding up prescription apportioning
2. **Which of coming up next is a vital part of powerful persistent guiding?**
  - a. Restricted correspondence
  - b. Administering drug rapidly
  - c. Patient-focused care
  - d. Keeping away from eye to eye connection
3. **For what reason is wellbeing proficiency significant in persistent training?**
  - a. It increments drug costs
  - b. It works on tolerant comprehension
  - c. It limits patient inquiries
  - d. It lessens patient consistence
4. **What is a typical element impacting drug adherence?**
  - a. High medicine cost
  - b. Restricted incidental effects
  - c. Medicine taste
  - d. Rare dosing plan
5. **In persistent sickness the board, what is the job of drug specialists?**
  - a. Just administer drugs
  - b. Team up in persistent consideration
  - c. Center exclusively around intense circumstances
  - d. Stay away from patient guiding
6. **Which of coming up next is a moral thought in drug administrations?**
  - a. Amplifying benefits at any expense
  - b. Patient privacy
  - c. Restricted patient association
  - d. Overlooking legitimate rules
7. **What is the meaning of social ability in tolerant advising?**
  - a. It increments prescription expenses
  - b. It helps address medical services inconsistencies
  - c. It limits patient comprehension
  - d. It diminishes patient trust
8. **What is an unfriendly medication response (ADR)?**
  - a. A startling monetary expense
  - b. A negative patient reaction to medicine
  - c. A typical prescription incidental effect
  - d. A normal piece of medicine treatment



  
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9. What does MTM depend on with regards to drug administrations?
  - a. Clinical Phrasing The executives
  - b. Medicine Treatment The executives
  - c. Multi-Layered Medicine
  - d. Overseeing Convenient Prescriptions
10. For what reason shows restraint focused care significant in drug administrations?
  - a. It limits patient inclusion
  - b. It amplifies benefits
  - c. It works on understanding results and fulfillment
  - d. It speeds up prescription apportioning

  
Course Coordinator

  
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Date : 18-01-2021 to 23-01-2021  
No. of Students Enrolled : 24  
Subject : Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling VI Pharm. D

S. No	Roll No	Student Name
1	15T51T0001	Allamsetty Jyotsna
2	15T51T0002	Anumanchipalli Venkata Alekhya
3	15T51T0003	Bodapati Vineela
4	15T51T0004	Burreddy Navya Deepika
5	15T51T0005	D V S NagaPhani Sharma
6	15T51T0006	Garikipati Meena Ujwala
7	15T51T0008	Gavara Kusuma
8	15T51T0010	Kada Pinky
9	15T51T0011	Kandregula Chandhusai Raja
10	15T51T0012	Karra Someswara Rao
11	15T51T0013	Killi Bhargavi
12	15T51T0014	Kontheti Mahesh Pavan
13	15T51T0015	Kuppili Prasanna Lakshmi
14	15T51T0016	Madapi Krishna vamsi
15	15T51T0017	Mandadi Vinod Kumar
16	15T51T0019	Mayuri Mercy Paul
17	15T51T0020	Pedada Syam Prashanth
18	15T51T0021	Ramavathu Bhargava Krishna Naik



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19	15T51T0023	Siddila Aparna Rani
20	15T51T0024	S Venkata Surya Rajasri
21	15T51T0025	Venuthurupalli Atchuta Lakshmi Reethika
22	15T51T0026	Vamaraju Upajna
23	15T51T0027	Voota Jayalakshmi
24	15T51T0028	Palla Tanusha

Course Coordinator

HOD

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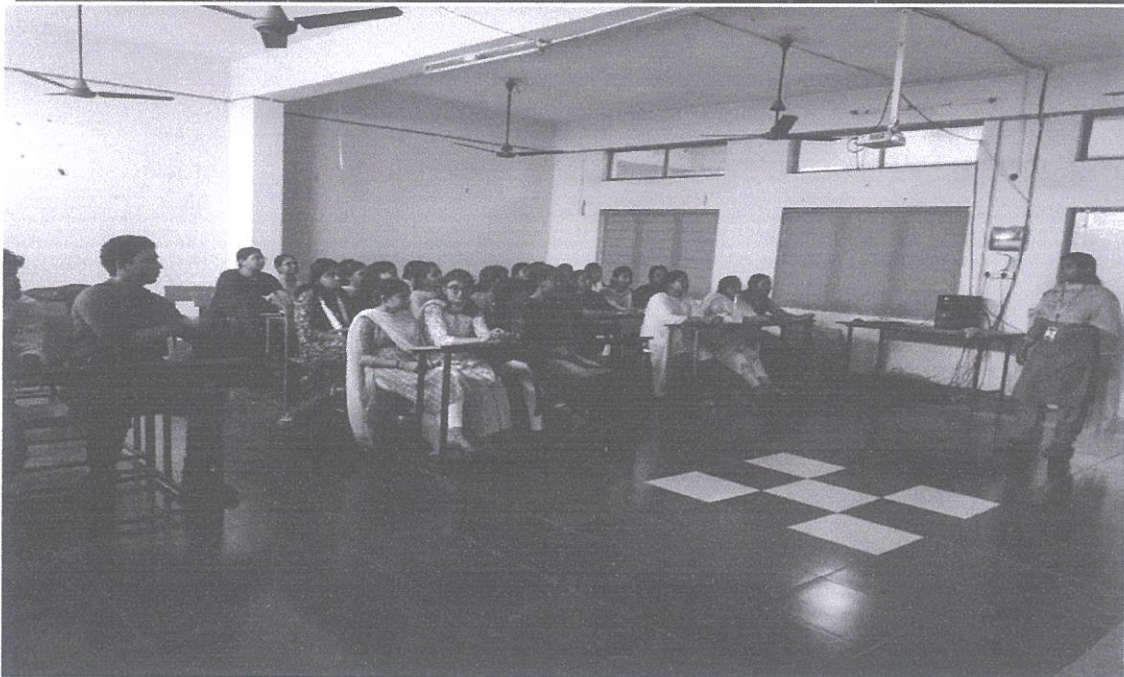
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The students of 6<sup>th</sup> Pharm D certificate program attending “ **ENHANCEMENT OF PHARMACEUTICAL SERVICES THROUGH MEDICATION MANAGEMENT AND PATIENT COUNSELING**” by Dr. M. Pavani, Professor, Srinivasa college of Pharmacy, PM Palem, Visakhapatnam



  
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Date : 07-12-2020 to 12-12-2020

Subject : Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling  
VI Pharm. D

S. No	Roll No.	Student Name	07/12/20	08/12/20	09/12/20	10/12/20	11/12/20	12/12/20
1	15T51T0001	Allamsetty Jyotsna	✓	✓	A	✓	✓	✓
2	15T51T0002	Anumanchipalli Venkata Alekhya	✓	✓	✓	✓	✓	✓
3	15T51T0003	Bodapati Vineela	✓	✓	✓	✓	✓	✓
4	15T51T0004	Burreddy Navya Deepika	A	✓	✓	✓	A	✓
5	15T51T0005	D V S Naga Phani Sharma	A	✓	A	✓	✓	✓
6	15T51T0006	Garikipati Meena Ujwala	✓	✓	✓	✓	✓	✓
7	15T51T0008	Gavara Kusuma	✓	A	✓	✓	✓	✓
8	15T51T0010	Kada Pinky	✓	✓	✓	✓	✓	A
9	15T51T0011	Kandregula Chandhusai Raja	✓	✓	✓	✓	✓	✓
10	15T51T0012	Karra Someswara Rao	✓	✓	✓	✓	✓	✓
11	15T51T0013	Killi Bhargavi	✓	✓	A	✓	✓	✓
12	15T51T0014	Kontheti Mahesh Pavan	✓	✓	✓	✓	✓	A
13	15T51T0015	Kuppili Prasanna Lakshmi	✓	✓	✓	✓	✓	✓
14	15T51T0016	Madapi Krishna vamsi	✓	✓	✓	A	✓	✓
15	15T51T0017	Mandadi Vinod Kumar	✓	✓	✓	A	A	A
16	15T51T0019	Mayuri Mercy Paul	✓	✓	A	✓	✓	✓
17	15T51T0020	Pedada Syam Prashanth	✓	✓	✓	✓	✓	✓
18	15T51T0021	Ramavathu Bhargava Krishna Naik	A	A	A	A	A	A



  
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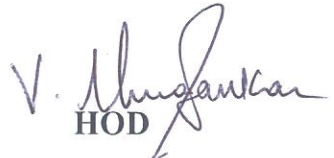
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19	15T51T0023	Siddila Aparna Rani	✓	✓	✓	A	✓	✓
20	15T51T0024	S Venkata Surya Rajasri	✓	A	✓	✓	✓	✓
21	15T51T0025	Venuthurupalli Atchuta Lakshmi Reethika	✓	✓	✓	✓	A	✓
22	15T51T0026	Vamaraju Upajna	✓	✓	A	✓	✓	✓
23	15T51T0027	Voota Jayalakshmi	✓	A	✓	✓	✓	A
24	15T51T0028	Palla Tanusha	✓	✓	✓	✓	✓	✓

  
Course Coordinator

  
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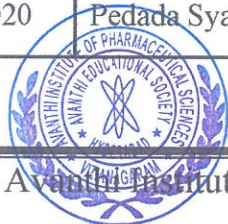
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Date : 18-01-2021 to 23-01-2021

No. of Students Enrolled 24

Subject : Enhancement of Pharmaceutical Services through Medication Management and Patient Counseling VI Pharm. D

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	15T51T0001	Allamsetty Jyotsna	30	83%
2	15T51T0002	Anumanchipalli Venkata Alekhya	36	100%
3	15T51T0003	Bodapati Vineela	36	100%
4	15T51T0004	Burreddy Navya Deepika	24	66%
5	15T51T0005	D V S NagaPhani Sharma	24	66%
6	15T51T0006	Garikipati Meena Ujwala	36	100%
7	15T51T0008	Gavara Kusuma	30	83%
8	15T51T0010	Kada Pinky	30	83%
9	15T51T0011	Kandregula Chandhusai Raja	36	100%
10	15T51T0012	Karra Someswara Rao	36	100%
11	15T51T0013	Killi Bhargavi	30	83%
12	15T51T0014	Kontheti Mahesh Pavan	30	83%
13	15T51T0015	Kuppili Prasanna Lakshmi	36	100%
14	15T51T0016	Madapi Krishna vamsi	30	83%
15	15T51T0017	Mandadi Vinod Kumar	18	50%
16	15T51T0019	Mayuri Mercy Paul	30	83%
17	15T51T0020	Pedada Syam Prashanth	36	100%



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18	15T51T0021	Ramavathu Bhargava Krishna Naik	Nil	0%
19	15T51T0023	Siddila Aparna Rani	30	83%
20	15T51T0024	S Venkata Surya Rajasri	30	83%
21	15T51T0025	Venuthurupalli Atchuta Lakshmi Reethika	30	83%
22	15T51T0026	Vamaraju Upajna	30	83%
23	15T51T0027	Voota Jayalakshmi	24	66%
24	15T51T0028	Palla Tanusha	36	100%

  
Course Coordinator

  
HOD

Avanthi Institute of Pharmaceutical Sciences  
CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



  
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## CERTIFICATE OF COMPLETION

This is presented to :

***D V S NagaPhani Sharma***

Bearing roll no **15T51T0005** pursuing **VI Pharm D** has successfully completed value added course on **“Enhancement of pharmaceutical services through medication”** held from 18-01-2021 to 23-01-2021

*V. Uma Sankar*  
Convener



*[Signature]*  
Principal

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## CERTIFICATE OF COMPLETION

This is presented to :

***Madapi Krishna vamsi***

Bearing roll no 15T51T0016 pursuing VI Pharm D has successfully completed value added course on “**Enhancement of pharmaceutical services through medication**” held from 18-01-2021 to 23-01-2021

*V. Uma Sankar*  
Convener



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## CERTIFICATE OF COMPLETION

This is presented to :

***Mandadi Vinod Kumar***

Bearing roll no **15T51T0017** pursuing **VI Pharm D** has successfully completed value added course on “**Enhancement of pharmaceutical services through medication**” held from 18-01-2021 to 23-01-2021

*V. Uma Shankar*  
Convener



*JV*

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## CERTIFICATE OF COMPLETION

This is presented to :

***Palla Tanusha***

Bearing roll no **15T51T0028** pursuing **VI Pharm D** has successfully completed value added course on **“Enhancement of pharmaceutical services through medication”** held from 18-01-2021 to 23-01-2021

*V. UmaSankar*  
Convenor



*[Signature]*

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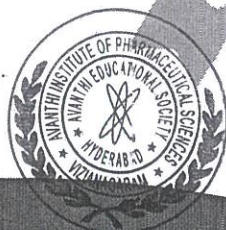
## CERTIFICATE OF COMPLETION

This is presented to :

**Allamsetty Jyotsna**

Bearing roll no **15T51T0001** pursuing **VI Pharm D** has successfully completed value added course on **“Enhancement of pharmaceutical services through medication”** held from 18-01-2021 to 23-01-2021

*V. Uma Sankar*  
Convener



*[Signature]*

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## CERTIFICATE OF COMPLETION

This is presented to :

***Kuppili Prasanna Lakshmi***

Bearing roll no 15T51T0015 pursuing VI Pharm D has successfully completed value added course on “Enhancement of pharmaceutical services through medication” held from 18-01-2021 to 23-01-2021

*V. Uma Sankar*  
Convener



*[Signature]*

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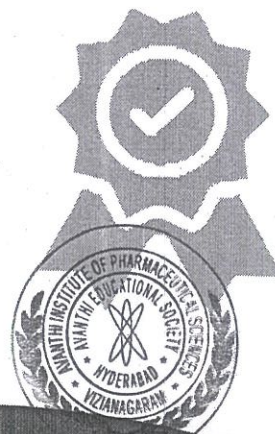
## CERTIFICATE OF COMPLETION

This is presented to :

***Siddila Aparna Rani***

Bearing roll no **15T51T0023** pursuing **VI Pharm D** has successfully completed value added course on “**Enhancement of pharmaceutical services through medication**” held from 18-01-2021 to 23-01-2021

*V. Uma Sankar*  
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*[Signature]*

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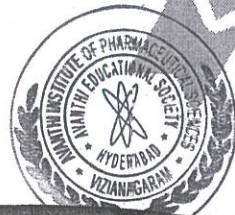
## CERTIFICATE OF COMPLETION

This is presented to :

***Ramavathu Bhargava Krishna***

Bearing roll no 15T51T0021 pursuing VI Pharm D has successfully completed value added course on “Enhancement of pharmaceutical services through medication” held from 18-01-2021 to 23-01-2021

*V. Uma Sankar*  
Convener



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## CERTIFICATE OF COMPLETION

This is presented to :

***Ramavathu Bhargava Krishna***

Bearing roll no 15T51T0021 pursuing VI Pharm D has successfully completed value added course on “Enhancement of pharmaceutical services through medication” held from 18-01-2021 to 23-01-2021

*V. Uma Sankar*  
Convener



*[Signature]*

Principal  
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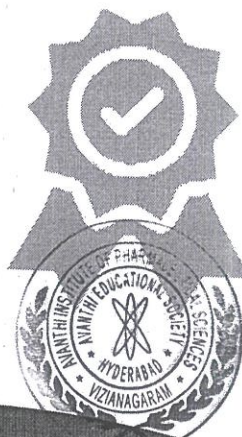
## CERTIFICATE OF COMPLETION

This is presented to :

**Gavara Kusuma**

Bearing roll no **15T51T0008** pursuing **VI Pharm D** has successfully completed value added course on **“Enhancement of pharmaceutical services through medication”** held from 18-01-2021 to 23-01-2021

*V. Uma Shankar*  
Convener



*[Signature]*

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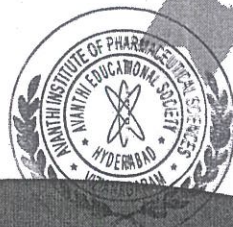
## CERTIFICATE OF COMPLETION

This is presented to :

***Garikipati Meena Ujwala***

Bearing roll no **15T51T0006** pursuing **VI Pharm D** has successfully completed value added course on **“Enhancement of pharmaceutical services through medication”** held from 18-01-2021 to 23-01-2021

*V. Uma Shankar*  
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*[Signature]*

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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2020-21/04

Date: 25-01-2021

### CIRCULAR

This is to inform all the students of III B. Pharmacy and Pharm. D that a value-added course will be conducted on the topic “Novel Approaches to Overcoming Antibiotic Resistance” from 01/02/2021 to 06/02/2021 interested students are required to sign-up for the above mentioned course with “Mrs. SANTHOSHI ALLU” Associate Professor in the Department of Pharmacy.

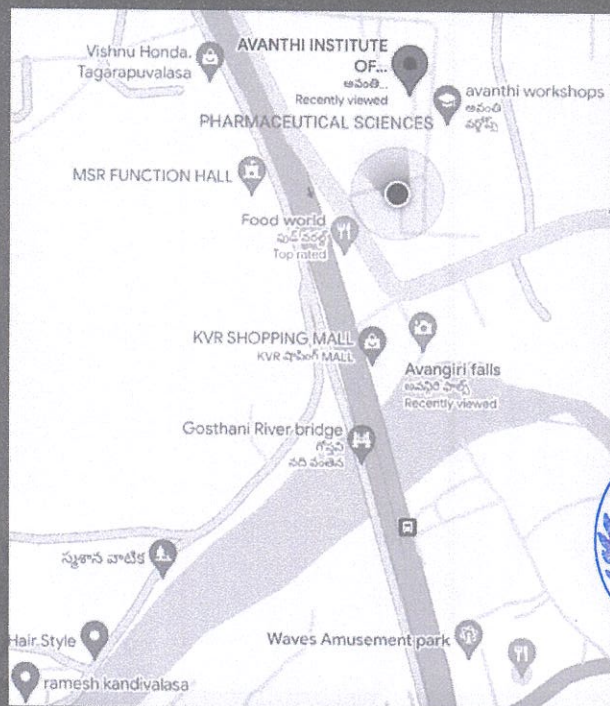


  
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## Institution

Avanthi Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapuvalasa Bridge adjacent to NH-16. Students of Avanthi boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



## Organizing Committee

### Cheif Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Mrs. A.H.V Santoshi,  
Associate Professor,



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## Organizing Committee

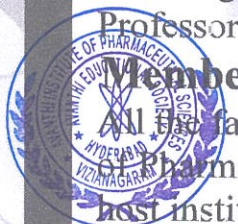
V. H. S. Reddy, Assistant Professor

Dr. M. S V. Sudeep, Assistant  
Professor

K. Bhargav Krishna Raju, Assistant  
Professor

## Members

All the faculty Avanthi Institute of Pharmaceutical Sciences  
Pharmaceutical Sciences of the  
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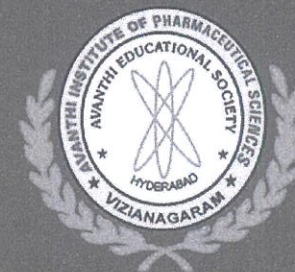
6 Days Workshop  
On

## Novel Approaches to Overcome Antibiotic Resistance

01/02/2021- 06/02/2021

Organized By:

DEPARTMENT OF  
PHARMACY



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Course Title	: Novel Approaches to Overcoming Antibiotic Resistance
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2020-21
Course Instructure	: Mrs. Santhoshi Allu, Associate Professor, Avanathi Institute of Pharmaceutical Sciences, Visakhapatnam
Course Coordinator	: Mr. A. Nanaji, Associate Professor
Dates	: 01-02-2021 to 06-02-2021
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/B. Pharm & Pharm. D/2020/04


### Objectives:

- Break Down Objectives:
- Utilize Technology:
- Collaboration and Networking:
- Iterative Problem-Solving:
- Mindfulness and Well-being:
- Embrace Failure as Learning:

### Outcomes:

- Design Thinking
- Agile Methodology
- Interdisciplinary Collaboration
- Technology Integration
- Behavioral Economics
- Gamification
- Crowdsourcing and Open Innovation
- Mindfulness and Well-being
- Futurism and Scenario Planning



  
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## Syllabus

- 1. Introduction to Antibiotic Resistance**
  - Understanding the basics of antibiotic resistance
  - Historical context and evolution of antibiotic resistance
  - Impact on global health and economics
- 2. Mechanisms of Antibiotic Resistance**
  - Molecular and cellular mechanisms of resistance
  - Horizontal gene transfer and its role in spreading resistance
  - Case studies of notable resistant pathogens
- 3. Conventional Antibiotic Discovery and Development**
  - Overview of traditional antibiotic discovery
  - Challenges and limitations of the current antibiotic development pipeline
  - Economic and regulatory barriers
- 4. Alternative Therapies**
  - Phage therapy: Bacteriophages as a novel approach
  - Antimicrobial peptides and their potential
  - Probiotics and other microbiome-based therapies
- 5. Drug Repurposing and Combination Therapies**
  - Exploring existing drugs for new antimicrobial applications
  - Synergy and combination approaches to combat resistance
  - Case studies of successful drug repurposing
- 6. Nanotechnology in Antimicrobial Therapy**
  - Nanoparticles as drug delivery systems
  - Nano-scale approaches to target resistant pathogens
  - Safety and ethical considerations of nanotechnology in medicine

  
**Course Coordinator**

  
**HOD**



  
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CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist

Avanthi Institute of Pharmaceutical Sciences




## TIMETABLE

### CLASS: III B. PHARMACY

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Novel Approaches to Overcoming Antibiotic Resistance	Break	Novel Approaches to Overcoming Antibiotic Resistance	Lunch	Novel Approaches to Overcoming Antibiotic Resistance	Novel Approaches to Overcoming Antibiotic Resistance	Break	Novel Approaches to Overcoming Antibiotic Resistance	Novel Approaches to Overcoming Antibiotic Resistance
TUE									
WED									
THU									
FRI									
SAT									

  
Course Coordinator

  
HOD

Avanthi Institute of Pharmaceutical Sciences  
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CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



  
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Reference book: "Antibiotic Resistance: Understanding and Responding to an Emerging Crisis" by K. S. Kim

S.NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	01-02-2021	6hrs	<b>1. Introduction to Antibiotic Resistance</b> <ul style="list-style-type: none"><li>Understanding the basics of antibiotic resistance</li><li>Historical context and evolution of antibiotic resistance</li><li>Impact on global health and economics</li></ul>
2.		02-02-2021	6hrs	<b>2. Mechanisms of Antibiotic Resistance</b> <ul style="list-style-type: none"><li>Molecular and cellular mechanisms of resistance</li><li>Horizontal gene transfer and its role in spreading resistance</li><li>Case studies of notable resistant pathogens</li></ul>
3.		03-02-2021	6hrs	<b>3. Conventional Antibiotic Discovery and Development</b> <ul style="list-style-type: none"><li>Overview of traditional antibiotic discovery</li><li>Challenges and limitations of the current antibiotic development pipeline</li><li>Economic and regulatory barriers</li></ul>
4.		04-02-2021	6hrs	<b>4. Alternative Therapies</b> <ul style="list-style-type: none"><li>Phage therapy: Bacteriophages as a novel approach</li></ul>



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				<ul style="list-style-type: none"><li>• Antimicrobial peptides and their potential</li><li>• Probiotics and other microbiome-based therapies</li></ul>
5.		05-02-2021	6hrs	<b>5. Drug Repurposing and Combination Therapies</b> <ul style="list-style-type: none"><li>• Exploring existing drugs for new antimicrobial applications</li><li>• Synergy and combination approaches to combat resistance</li><li>• Case studies of successful drug repurposing</li></ul>
6.		06-02-2021	6hrs	<b>6. Nanotechnology in Antimicrobial Therapy</b> <ul style="list-style-type: none"><li>• Nanoparticles as drug delivery systems</li><li>• Nano-scale approaches to target resistant pathogens</li><li>• Safety and ethical considerations of nanotechnology in medicine</li></ul>

  
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## Assessment:

- Which of the following is NOT a novel approach to overcoming antibiotic resistance?**
  - Phage therapy
  - CRISPR-Cas9 gene editing
  - Traditional antibiotic development
  - Antibiotic combination therapy
- What is the main principle behind phage therapy as a strategy against antibiotic resistance?**
  - Using viruses to target and kill bacteria
  - Enhancing bacterial resistance to antibiotics
  - Inhibiting bacterial cell wall synthesis
  - Modifying bacterial metabolism
- How does CRISPR-Cas9 contribute to combating antibiotic resistance?**
  - Targeting and modifying bacterial genes responsible for resistance
  - Enhancing bacterial growth
  - Blocking antibiotic entry into bacterial cells
  - Increasing bacterial mutation rates
- Which of the following is an example of a non-traditional antimicrobial agent?**
  - Penicillin
  - Vancomycin
  - Silver nanoparticles
  - Tetracycline
- What role do bacteriocins play in overcoming antibiotic resistance?**
  - Enhancing bacterial resistance
  - Inhibiting the growth of fungi
  - Acting as natural antibiotics produced by bacteria
  - Facilitating horizontal gene transfer in bacteria
- In the context of antibiotic resistance, what is "potentiating the immune response"?**
  - Enhancing the activity of antibiotics
  - Boosting the body's natural defense mechanisms
  - Inhibiting bacterial biofilm formation
  - Decreasing the mutation rate in bacteria
- Which approach involves the use of predatory bacteria to combat antibiotic-resistant strains?**
  - Nanoparticle therapy
  - Bacteriophage therapy
  - Quorum sensing inhibition
  - Bdellovibrio therapy



  
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8. **What is the primary aim of antibiotic combination therapy in overcoming resistance?**
  - a. Targeting multiple pathways in bacteria
  - b. Reducing the overall antibiotic dose
  - c. Enhancing bacterial mutation rates
  - d. Increasing the development of resistance
9. **What is the significance of CRISPR technology in the fight against antibiotic resistance?**
  - a. Enhancing bacterial growth
  - b. Inhibiting the expression of antibiotic resistance genes
  - c. Promoting biofilm formation
  - d. Inducing antibiotic resistance in bacteria
10. **Which of the following strategies involves interfering with bacterial communication to prevent the development of resistance?**
  - a. Antibiotic combination therapy
  - b. Quorum sensing inhibition
  - c. CRISPR-Cas9 gene editing
  - d. Horizontal gene transfer promotion

  
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14	18T51R0015	Gandi Spandana
15	18T51R0016	Ganesh Sri Harsha
16	18T51R0017	Gari Swetha
17	18T51R0018	Gedala Pullaiah Verma
18	18T51R0020	Gollangi Harika



  
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21	18T51R0023	Gullipalli Rohini
22	18T51R0024	Guruvelli Tejaswi
23	18T51R0025	J Deepika Rao
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30	18T51R0032	Kimidi Niharika
31	18T51R0033	Korada Prameela
32	18T51R0034	Kota Neeraja
33	18T51R0035	Kotipalli Prathap Kumar
34	18T51R0036	Kupireddi Maneesha
35	18T51R0038	Madaka Divya Sai
36	18T51R0039	Madaka Revathi
37	18T51R0040	Makireddy Kusuma
38	18T51R0041	Maradabudi Joshna
39	18T51R0042	Marpu Durgabhavani
40	18T51R0043	Matha Sunitha



  
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42	18T51R0045	Mindi Savithri
43	18T51R0046	Modalavalasa Sowmya
44	18T51R0047	Mosuru Praveen Kumar
45	18T51R0048	Mudadla Tarun
46	18T51R0049	Nookala Venkata Lakshmi
47	18T51R0050	P Sneha
48	18T51R0052	Palli Joshana
49	18T51R0054	Pedada Nirosha
50	18T51R0055	Perumalla Meena Kumari
51	18T51R0056	Pilaka Neha
52	18T51R0057	Pilla Chandrika Lakshmi
53	18T51R0058	Pinninti Viswateja
54	18T51R0059	Pondari Rashmitha
55	18T51R0060	Pontapalli Bharathi
56	18T51R0061	Puppala Shravya
57	18T51R0062	Rajamahendrarapuram Surekha
58	18T51R0063	Rana Pramojeeta Pramodkumar
59	18T51R0064	Rayapalli Hema Latha
60	18T51R0065	Rokkala Prasanthi
61	18T51R0066	Rudrakshula Saipreethi
62	18T51R0067	Sagiraju Priyanka



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64	18T51R0069	Seemusiri Usha Ramani
65	18T51R0070	Siraparapu Sridevi
66	18T51R0073	Tadi Anita
67	18T51R0074	Teppala Tirupathi
68	18T51R0075	Turubilli Satish
69	18T51R0077	Tuta Teena Mounika
70	18T51R0078	Uppati Latha
71	18T51R0079	Vallisetti Aravind
72	18T51R0080	Varri Naga Gowthami
73	18T51R0081	Vataka Praveen
74	18T51R0082	Vemagiri Rajkamal
75	18T51R0083	Yanumula Thrinadh Reddy
76	18T51R0084	Yeddu Iswaryadevi
77	17T51R0075	K Chinna Reddy

**Course Coordinator**

**HOD**

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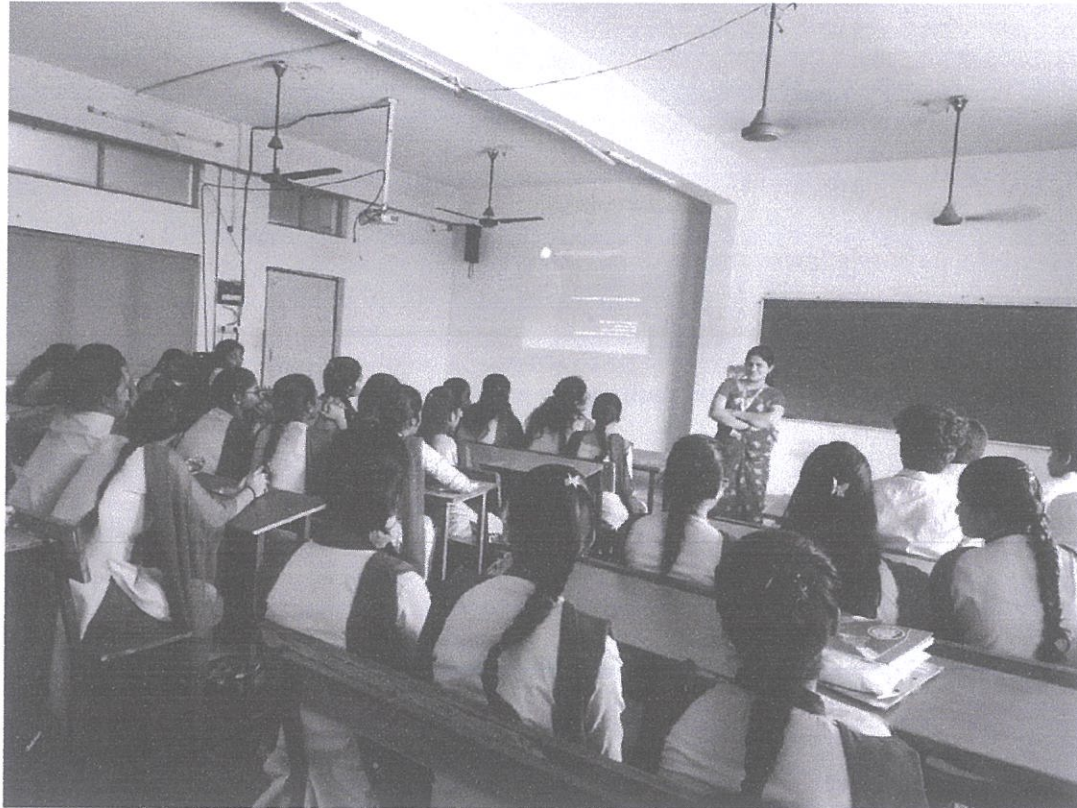
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The students of 1<sup>st</sup> year M. Pharmacy certificate program attending “**PHARMACEUTICAL MARKETING AND SALE STRATEGIES**” by the Mrs. Santhoshi Allu, Associate Professor, Avanathi Institute of Pharmaceutical Sciences, Visalhapatnam



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S. No	Roll No.	Student Name	18/01/21	19/01/21	20/01/21	21/01/21	22/01/21	23/01/21
1	18T51R0001	Asha Pasala	✓	✓	✓	✓	✓	✓
2	18T51R0002	Baddem Bhargavi	✓	✓	✓	✓	✓	✓
3	18T51R0003	Bantubilli Sukanya	✓	A	✓	✓	✓	✓
4	18T51R0004	Bammidi Vidyasagar	✓	✓	✓	A	✓	✓
5	18T51R0005	Biddika Chandini	A	✓	✓	✓	✓	A
6	18T51R0006	Chekuri Meghana	✓	✓	A	✓	✓	✓
7	18T51R0007	Chelluboina Prasanna Lakshmi	✓	✓	✓	✓	✓	A
8	18T51R0008	Dantla Poorna Sai	✓	✓	✓	A	A	✓
9	18T51R0009	Dasari Ruchitha Reddy	✓	✓	✓	✓	✓	✓
10	18T51R0010	Dasireddy Saisri	A	A	✓	✓	✓	✓
11	18T51R0011	Devisetti Sri Bhavya Viharika	✓	✓	✓	✓	✓	✓
12	18T51R0012	Doddi Sai Madhuri	✓	✓	A	✓	✓	✓
13	18T51R0014	Eepari Lahari	✓	✓	✓	✓	A	✓
14	18T51R0015	Gandi Spandana	✓	✓	✓	A	A	A
15	18T51R0016	Ganesh Sri Harsha	✓	✓	✓	✓	A	✓
16	18T51R0017	Gari Swetha	✓	✓	✓	✓	✓	✓
17	18T51R0018	Gedala Pullaiah Verma	✓	✓	✓	✓	A	✓
18	18T51R0020	Gollangi Harika	✓	✓	✓	✓	✓	✓
19	18T51R0021	Gubbala Purna Sai Ganesh	A	✓	✓	✓	✓	✓

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20	18T51R0022	Gulipalli Kalyani	A	A	A	✓	A	A
21	18T51R0023	Gullipalli Rohini	✓	✓	✓	✓	A	✓
22	18T51R0024	Guruvelli Tejaswi	✓	✓	✓	✓	✓	✓
23	18T51R0025	J Deepika Rao	✓	✓	✓	A	A	✓
24	18T51R0026	Jamana Meghana	✓	✓	✓	✓	A	✓
25	18T51R0027	Kalavalapalli Ramani	A	A	A	A	A	A
26	18T51R0028	Kalla Tejasree	✓	✓	✓	✓	✓	A
27	18T51R0029	Kamireddy Himaja	✓	A	✓	✓	✓	✓
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34	18T51R0036	Kupireddi Maneesha	✓	✓	A	✓	✓	✓
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36	18T51R0039	Madaka Revathi	✓	✓	✓	✓	✓	✓
37	18T51R0040	Makireddy Kusuma	✓	A	✓	✓	✓	✓
38	18T51R0041	Maradabudi Joshna	✓	✓	A	✓	✓	✓
39	18T51R0042	Marpu Durgabhavani	✓	✓	✓	✓	✓	✓
40	18T51R0043	Matha Sunitha	✓	A	✓	✓	✓	A
41	18T51R0044	Medapalli Deepthi	✓	✓	✓	✓	✓	A

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44	18T51R0047	Mosuru Praveen Kumar	✓	A	✓	✓	✓	✓
45	18T51R0048	Mudadla Tarun	✓	✓	✓	✓	✓	✓
46	18T51R0049	Nookala Venkata Lakshmi	✓	A	✓	✓	✓	✓
47	18T51R0050	P Sneha	✓	✓	✓	✓	✓	A
48	18T51R0052	Palli Joshana	✓	A	✓	✓	✓	✓
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51	18T51R0056	Pilaka Neha	✓	✓	✓	✓	✓	✓
52	18T51R0057	Pilla Chandrika Lakshmi	✓	A	✓	✓	✓	✓
53	18T51R0058	Pinninti Viswateja	✓	✓	✓	✓	✓	✓
54	18T51R0059	Pondari Rashmitha	A	✓	✓	✓	✓	✓
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57	18T51R0062	Rajamahendraravaru Surekha	✓	✓	✓	✓	✓	✓
58	18T51R0063	Rana Pramojeeta Pramodkumar	✓	A	✓	✓	✓	✓
59	18T51R0064	Rayapalli HemaLatha	✓	✓	✓	✓	✓	✓
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62	18T51R0067	Sagiraju Priyanka	✓	✓	✓	✓	✓	✓
63	18T51R0068	Sayyad Abdul Ruksana	✓	A	✓	A	✓	✓

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76	18T51R0084	Yeddu Iswaryadevi	✓	✓	✓	✓	✓	✓
77	17T51R0075	K Chinna Reddy	✓	✓	✓	✓	✓	✓

  
Course Coordinator



  
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11	18T51R0011	Devisetti Sri Bhavya Viharika	36	100%
12	18T51R0012	Doddi Sai Madhuri	30	83%
13	18T51R0014	Eepari Lahari	30	83%
14	18T51R0015	Gandi Spandana	18	50%
15	18T51R0016	Ganesh Sri Harsha	30	83%
16	18T51R0017	Gari Swetha	36	100%
17	18T51R0018	Gedala Pullaiah Verma	30	83%



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18	18T51R0020	Gollangi Harika	36	100%
19	18T51R0021	Gubbala Purna Sai Ganesh	30	83%
20	18T51R0022	Gulipalli Kalyani	6	16%
21	18T51R0023	Gullipalli Rohini	30	83%
22	18T51R0024	Guruvelli Tejaswi	36	100%
23	18T51R0025	J Deepika Rao	24	66%
24	18T51R0026	Jamana Meghana	30	83%
25	18T51R0027	Kalavalapalli Ramani	nil	0%
26	18T51R0028	Kalla Tejasree	30	83%
27	18T51R0029	Kamireddy Himaja	30	83%
28	18T51R0030	Karaka Naresh	36	100%
29	18T51R0031	Kasireddi Ramalakshmi	36	100%
30	18T51R0032	Kimidi Niharika	36	100%
31	18T51R0033	Korada Prameela	36	100%
32	18T51R0034	Kota Neeraja	30	83%
33	18T51R0035	Kotipalli Prathap Kumar	36	100%
34	18T51R0036	Kupireddi Maneesha	30	83%
35	18T51R0038	Madaka Divya Sai	30	83%
36	18T51R0039	Madaka Revathi	36	100%
37	18T51R0040	Makireddy Kusuma	30	83%
38	18T51R0041	Maradabudi Joshna	30	83%
39	18T51R0042	Marpu Durgabhavani	36	100%



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40	18T51R0043	Matha Sunitha	24	66%
41	18T51R0044	Medapalli Deepthi	30	83%
42	18T51R0045	Mindi Savithri	36	100%
43	18T51R0046	Modalavalasa Sowmya	24	66%
44	18T51R0047	Mosuru Praveen Kumar	30	83%
45	18T51R0048	Mudadla Tarun	36	100%
46	18T51R0049	Nookala Venkata Lakshmi	30	83%
47	18T51R0050	P Sneha	30	83%
48	18T51R0052	Palli Joshana	30	83%
49	18T51R0054	Pedada Nirosha	36	100%
50	18T51R0055	Perumalla Meena Kumari	30	83%
51	18T51R0056	Pilaka Neha	36	100%
52	18T51R0057	Pilla Chandrika Lakshmi	30	83%
53	18T51R0058	Pinninti Viswateja	36	100%
54	18T51R0059	Pondari Rashmitha	30	83%
55	18T51R0060	Pontapalli Bharathi	30	83%
56	18T51R0061	Puppala Shravya	30	83%
57	18T51R0062	Rajamahendrarapu Surekha	36	100%
58	18T51R0063	Rana Pramojeeta Pramodkumar	30	83%
59	18T51R0064	Rayapalli Hema Latha	36	100%
60	18T51R0065	Rokkala Prasanthi	30	83%
61	18T51R0066	Rudrakshula Saipreethi	30	83%



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62	18T51R0067	Sagiraju Priyanka	36	100%
63	18T51R0068	Sayyad Abdul Ruksana	24	66%
64	18T51R0069	Seemusiri Usha Ramani	30	83%
65	18T51R0070	Siraparapu Sridevi	36	100%
66	18T51R0073	Tadi Anita	36	100%
67	18T51R0074	Teppala Tirupathi	36	100%
68	18T51R0075	Turubilli Satish	nil	0%
69	18T51R0077	Tuta Teena Mounika	36	100%
70	18T51R0078	Uppati Latha	36	100%
71	18T51R0079	Valliseti Aravind	36	100%
72	18T51R0080	Varri Naga Gowthami	nil	0%
73	18T51R0081	Vataka Praveen	36	100%
74	18T51R0082	Vemagiri Rajkamal	36	100%
75	18T51R0083	Yanumula Thrinadh Reddy	36	100%
76	18T51R0084	Yeddu Iswaryadevi	36	100%
77	17T51R0075	K Chinna Reddy	36	100%

  
Course Coordinator

  
HOD

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CHITTIVALASA S.A.O.  
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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**MOSURU PRAVEEN KUMAR**

Bearing roll no. **18T51R0047** pursuing **III B pharamcy** has successfully completed Value added Course on "*novel approaches to overcome antibiotic resistance*" held from 01-02-2021 to 06-02-2021.

*V. Uma Sankar*  
Convener



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## OF PARTICIPATION

This certificate is proudly presented to

**PALLI JOSHANA**

Bearing roll no. **18T51R0052** pursuing **III B pharamcy** has successfully completed Value added Course on "*novel approaches to overcome antibiotic resistance*" held from 01-02-2021 to 06-02-2021.

*V. Uma Sankar*  
Convener



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## CERTIFICATE

### OF PARTICIPATION

This certificate is proudly presented to

**PEDADA NIROSHA**

Bearing roll no. **18T51R0054** pursuing **III B pharamcy** has successfully completed Value added Course on "*novel approaches to overcome antibiotic resistance*" held from 01-02-2021 to 06-02-2021.

*V. Anjanankar*  
Convener



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This certificate is proudly presented to

**PERUMALLA MEENA KUMARI**

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*V Uma Sankar*  
Convener



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This certificate is proudly presented to

**RAYAPALLI HEMA LATHA**

Bearing roll no. **18T51R0064** pursuing **III B pharamcy** has successfully completed Value added Course on "*novel approaches to overcome antibiotic resistance*" held from 01-02-2021 to 06-02-2021.

*V. Uma Shankar*  
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This certificate is proudly presented to

**ROKKALA PRASANTHI**

Bearing roll no. **18T51R0065** pursuing **III B pharamcy** has successfully completed Value added Course on "*novel approaches to overcome antibiotic resistance*" held from 01-02-2021 to 06-02-2021.

*V. UmaSankar*  
Convener



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This certificate is proudly presented to

**KOTIPALLI PRATHAP KUMAR**

Bearing roll no. **18T51R0035** pursuing **III B pharamcy** has successfully completed Value added Course on "*novel approaches to overcome antibiotic resistance*" held from 01-02-2021 to 06-02-2021.

*V. Uma Sankar*  
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# CERTIFICATE

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This certificate is proudly presented to

**SEEMUSIRI USHA RAMANI**

Bearing roll no. **18T51R0069** pursuing **III B pharamcy** has successfully completed Value added Course on *“novel approches to overcome antibiotic resistance”* held from 01-02-2021 to 06-02-2021.

*V. Mangankar*  
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This certificate is proudly presented to

**RUDRAKSHULA SAIPREETHI**

Bearing roll no. **18T51R0066** pursuing **III B pharamcy** has successfully completed Value added Course on "*novel approaches to overcome antibiotic resistance*" held from 01-02-2021 to 06-02-2021.

*V. Umabankar*  
Convener



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## OF PARTICIPATION

This certificate is proudly presented to

**SAGIRAJU PRIYANKA**

Bearing roll no. **18T51R0067** pursuing **III B pharamcy** has successfully completed Value added Course on "*novel approches to overcome antibiotic resistance*" held from 01-02-2021 to 06-02-2021.

*V. Umagankar*  
Convener



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This certificate is proudly presented to

**SAYYAD ABDUL RUKSANA**

Bearing roll no. **18T51R0068** pursuing **III B pharamcy** has successfully completed Value added Course on *“novel approches to overcome antibiotic resistance”* held from 01-02-2021 to 06-02-2021.

*V. Uma Shankar*  
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This certificate is proudly presented to

**SIRAPARAPU SRIDEVI**

Bearing roll no. **18T51R0070** pursuing **III B pharamcy** has successfully completed Value added Course on *“novel approaches to overcome antibiotic resistance”* held from 01-02-2021 to 06-02-2021.

*V. Uma Sankar*  
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**DEPARTMENT OF PHARMACY PRACTICE**

Ref no: AIPS/Pharmacy Practice/2020-21/05

Date: 01-02-2020

**CIRCULAR**

This is to inform all the students of IV Pharm. D that a value-added course will be conducted on the topic "Forensic Toxicology Techniques for Clinicians" from 08/02/2021 to 13/02/2021 interested students are required to sign-up for the above mentioned course with "Dr. B. PRATHUSHA" Assistant Professor in the Department of Pharmacy.



  
Principal

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## Institution

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## Route Map



## Organizing Committee

### Cheif Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Dr. B. Prathyusha  
Assistant Professor



Viswanadha Institute  
of Pharmaceutical Sciences

## Organizing Committee

Dr. T. Rushi, Assistant Professor

Dr. M.S.V. Sudeep, Assistant  
Professor

Dr. D. Subha Sri, Assistant Professor

## Members

All the faculty from the department  
of Pharmaceutical Sciences of the  
host institute



## 6 Days Workshop

### On

## Forensic Toxicology Techniques for Clinicians

08-02-2021 to 13-02-2021

### Organized By:

## DEPARTMENT OF PHARMACY PRACTICE



## AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(APPROVED BY PCI, A.I.C.TE, NEW  
DELHI, AFFILIATED TO J.N.T.U.K,  
KAKINADA)

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TAGARAPUVALASA BRIDGE,  
BHO GAPURAM (MANDAL), VIZIANAGARAM

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---

Course Title	: Forensic Toxicology Techniques for Clinicians
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2020-2021
Course Instructor	: Dr. B. Pratushya, Assistant Professor, Vishwanadha Institute of Pharmaceutical Sciences, Visakhapatnam
Course Coordinator	: Dr. B. Manoj Kumar, Associate Professor
Dates	: 08-02-2021 to 13-02-2021
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/Pharm. D/2020/05

## Objectives:

- Clinicians should be able to identify common toxic substances and drugs that may be encountered in clinical practice.
- Clinicians should be able to interpret forensic toxicology reports, including understanding the significance of drug concentrations and metabolites.
- Clinicians should understand the various sampling methods used in forensic toxicology, such as blood, urine, hair, and tissue sampling.
- Clinicians should have a basic understanding of pharmacokinetics and drug metabolism to interpret toxicology results over time.
- Clinicians should understand the legal implications of toxicology results and be familiar with the proper procedures for reporting findings.

## Outcomes:

- Identification of the substances involved in a drug overdose.
- Determination of toxic substances present at the time of death.
- Detection of drugs or alcohol in individuals involved in motor vehicle accidents or suspected of impaired driving.
- Identification of toxic substances in cases of suspected poisoning.
- Detection of toxic substances in cases of suspected abuse or neglect.
- Monitoring drug levels in patients receiving medications for therapeutic purposes.



  
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## Syllabus

### 1. Introduction to Forensic Toxicology

- Definition and scope of forensic toxicology
- Historical perspective
- Legal aspects and responsibilities of a forensic toxicologist
- Relationship between clinical toxicology and forensic toxicology

### 2. Basic Concepts in Toxicology

- Dose-response relationships
- Absorption, distribution, metabolism, and elimination (ADME) of toxicants
- Routes of exposure
- Types of toxicological effects

### 3. Analytical Techniques in Forensic Toxicology

- Spectroscopy techniques (UV, IR, MS)
- Chromatography techniques (GC, HPLC)
- Immunoassay techniques
- Sample collection and preservation

### 4. Postmortem Toxicology

- Autopsy procedures
- Interpretation of postmortem toxicology results
- Postmortem redistribution
- Case studies and examples

### 5. Drugs of Abuse

- Common drugs of abuse and their effects
- Screening and confirmation tests for drugs of abuse
- Interpretation of results
- Emerging trends in drug abuse

### 6. Pharmaceutical Toxicology

- Over-the-counter medications and their toxicities
- Prescription drugs and their potential for abuse
- Drug interactions
- Case studies

  
Course Coordinator



  
PRINCIPAL

  
HOD



## TIMETABLE

### CLASS: IV PHARM. D


DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Forensic Toxicology Techniques for Clinicians	Break	Forensic Toxicology Techniques for Clinicians	Lunch	Forensic Toxicology Techniques for Clinicians	Forensic Toxicology Techniques for Clinicians	Break	Forensic Toxicology Techniques for Clinicians	Forensic Toxicology Techniques for Clinicians
TUE									
WED									
THU									
FRI									
SAT									

  
Course Coordinator

  
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Reference Book: "Toxicology: Principles and Applications" by P. K. Gupta

S.NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	08-02-2021	6hrs	<b>1. Introduction to Forensic Toxicology</b> <ul style="list-style-type: none"><li>• Definition and scope of forensic toxicology</li><li>• Historical perspective</li><li>• Legal aspects and responsibilities of a forensic toxicologist</li><li>• Relationship between clinical toxicology and forensic toxicology</li></ul>
2.		09-02-2021	6hrs	<b>2. Basic Concepts in Toxicology</b> <ul style="list-style-type: none"><li>• Dose-response relationships</li><li>• Absorption, distribution, metabolism, and elimination (ADME) of toxicants</li><li>• Routes of exposure</li><li>• Types of toxicological effects</li></ul>
3.		10-02-2021	6hrs	<b>3. Analytical Techniques in Forensic Toxicology</b> <ul style="list-style-type: none"><li>• Spectroscopy techniques (UV, IR, MS)</li><li>• Chromatography techniques (GC, HPLC)</li><li>• Immunoassay techniques</li><li>• Sample collection and preservation</li></ul>
4.		11-02-2021	6hrs	<b>4. Postmortem Toxicology</b> <ul style="list-style-type: none"><li>• Autopsy procedures</li><li>• Interpretation of postmortem toxicology results</li><li>• Postmortem redistribution</li><li>• Case studies and examples</li></ul>



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5.		12-02-2021	6hrs	<b>5. Drugs of Abuse</b> <ul style="list-style-type: none"><li>• Common drugs of abuse and their effects</li><li>• Screening and confirmation tests for drugs of abuse</li><li>• Interpretation of results</li><li>• Emerging trends in drug abuse</li></ul>
6.		13-02-2021	6hrs	<b>6. Pharmaceutical Toxicology</b> <ul style="list-style-type: none"><li>• Over-the-counter medications and their toxicities</li><li>• Prescription drugs and their potential for abuse</li><li>• Drug interactions</li><li>• Case studies</li></ul>

  
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## Assessment:

- 1. Which of the following is a commonly used technique in forensic toxicology for the identification and quantification of drugs in biological samples?**
  - a. Chromatography
  - b. Polymerase Chain Reaction (PCR)
  - c. ELISA
  - d. Western Blot
- 2. In forensic toxicology, gas chromatography is often used for the separation of volatile compounds. Which component is responsible for the separation in gas chromatography?**
  - a. Mobile phase
  - b. Stationary phase
  - c. Detector
  - d. Carrier gas
- 3. Immunoassays, such as Enzyme-Linked Immunosorbent Assay (ELISA), are commonly used in toxicology. What is the basis of detection in ELISA?**
  - a. Mass spectrometry
  - b. Radioactivity
  - c. Antibody-antigen interaction
  - d. Fluorescence
- 4. Which technique is frequently employed for the confirmation of results obtained through initial screening tests in forensic toxicology?**
  - a. Thin-layer chromatography
  - b. Gas chromatography-mass spectrometry (GC-MS)
  - c. High-performance liquid chromatography (HPLC)
  - d. Spectrophotometry
- 5. Postmortem toxicology involves the analysis of substances in the body after death. Which biological sample is commonly used in postmortem toxicology testing?**
  - a. Urine
  - b. Blood
  - c. Hair
  - d. Saliva
- 6. In forensic toxicology, what is the primary advantage of using liquid chromatography-mass spectrometry (LC-MS) over other techniques?**
  - a. Speed of analysis
  - b. Sensitivity and specificity
  - c. Simplicity
  - d. Low cost



  
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7. **What is the main advantage of utilizing headspace gas chromatography in the analysis of volatile compounds in forensic toxicology?**
  - a. Rapid sample preparation
  - b. High resolution
  - c. No need for a stationary phase
  - d. Applicability to non-volatile compounds
8. **Hair analysis is often used in forensic toxicology for detecting long-term drug use. Which part of the hair is typically analyzed for drug content?**
  - a. Hair root
  - b. Hair shaft
  - c. Hair follicle
  - d. Hair tip
9. **Which of the following factors can influence the interpretation of toxicology results in postmortem cases?**
  - a. Antemortem drug history
  - b. Time of death
  - c. Environmental conditions
  - d. All of the above
10. **In forensic toxicology, what role does the chain of custody play in ensuring the reliability of test results?**
  - a. It helps in identifying the deceased individual.
  - b. It ensures the integrity of the sample from collection to analysis.
  - c. It determines the cause of death.
  - d. It establishes the timeline of drug ingestion.

  
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Date : 08-02-2021 to 13-02-2021  
No. of Students Enrolled : 26  
Subject : Forensic Toxicology Techniques for Clinicians  
IV Pharm. D

S. No	Roll No	Student Name
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2	17T51T0002	Batchu Divya Vani
3	17T51T0003	Bitra Tanish
4	17T51T0004	Bonela Niharika
5	17T51T0005	Chandanapalli Sai Himabindu
6	17T51T0006	Dakamuri Kanaka Satya Vasantha Sena
7	17T51T0007	Damodara Padmapriya
8	17T51T0008	Gannamaneni Saipadmini
9	17T51T0009	Ginne Himaja
10	17T51T0010	Kalepu Manisha
11	17T51T0011	Kari Sreevani
12	17T51T0013	Shaik Nayab
13	17T51T0014	Kolipaka Karishma
14	17T51T0015	Kolla Jagadeeswari
15	17T51T0016	Marothu Navya Sree
16	17T51T0017	Mylapalli Abhisekhar
17	17T51T0018	Nimmal Prema Kumari
18	17T51T0019	Pentakota Akhila



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19	17T51T0020	Pirla Dhanya Swaroopa
20	17T51T0021	Pulugurtha Sumathya
21	17T51T0022	Savara Gunasekhar
22	17T51T0023	Shruti Bharadwaj
23	17T51T0024	Vejendla Geetha
24	17T51T0025	Tankala Mounika
25	17T51T0026	Mendemu Ratnajyothirmai
26	16T51T0003	B. Hemantha Nissi

  
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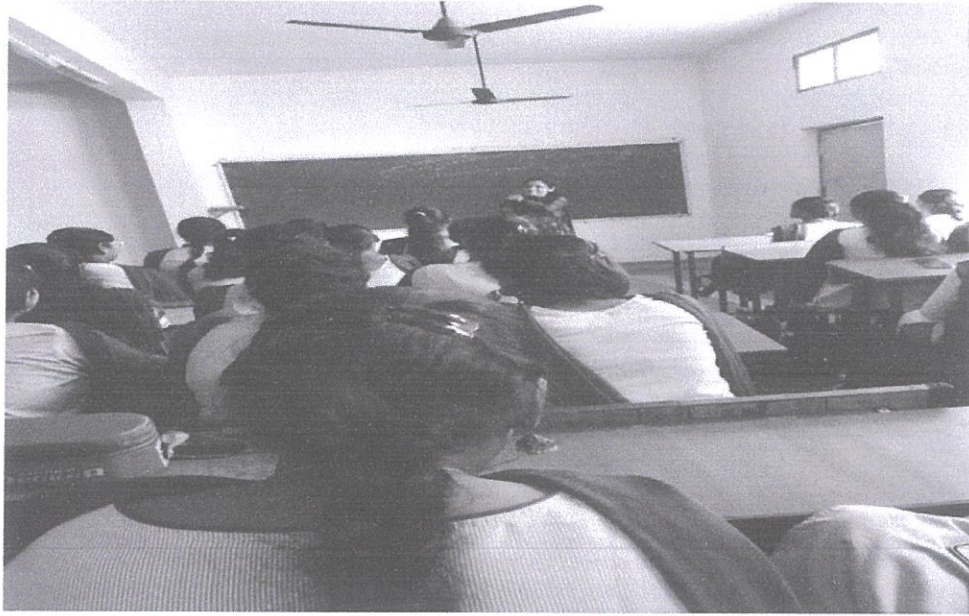
  
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The students of 4<sup>th</sup> B. Pharm certificate program attending “ **FORENSIC TOXICOLOGY TECHNIQUES FOR CLINICIANS**” by Dr. B. Pratushya, Assistant Professor, Vishwanadha Institute of Pharmaceutical Sciences, Visakhapatnam



  
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Date : 16-11-2020 to 21-11-2020

Subject : Forensic Toxicology Techniques for Clinicians

IV Pharm. D

S. No	Roll No	Student Name	16/11/20	17/11/20	18/11/20	19/11/20	20/11/20	21/11/20
1	17T51T0001	Akula Sanjuna Revathi	A	A	A	A	A	A
2	17T51T0002	Batchu Divya Vani	✓	✓	✓	✓	✓	✓
3	17T51T0003	Bitra Tanish	✓	✓	✓	✓	✓	✓
4	17T51T0004	Bonela Niharika	✓	✓	✓	✓	✓	✓
5	17T51T0005	Chandanapalli Sai Hima bindu	✓	✓	✓	✓	A	✓
6	17T51T0006	Dakamuri Kanaka Satya Vasantha Sena	✓	✓	✓	✓	✓	✓
7	17T51T0007	Damodara Padmapriya	✓	✓	✓	✓	✓	✓
8	17T51T0008	Gannamaneni Sai padmini	✓	✓	A	✓	✓	✓
9	17T51T0009	Ginne Himaja	✓	✓	✓	✓	✓	✓
10	17T51T0010	Kalepu Manisha	✓	✓	✓	✓	✓	✓
11	17T51T0011	Kari Sreevani	✓	A	✓	✓	✓	✓
12	17T51T0013	Shaik Nayab	✓	✓	✓	A	✓	✓
13	17T51T0014	Kolipaka Karishma	✓	✓	✓	✓	✓	A
14	17T51T0015	Kolla Jagadeeswari	A	✓	✓	✓	✓	✓
15	17T51T0016	Marothu Navya Sree	✓	✓	A	✓	✓	✓
16	17T51T0017	Mylapalli Abhisekhar	✓	✓	✓	✓	✓	✓
17	17T51T0018	Nimmal Prema Kumari	✓	✓	✓	✓	✓	✓
18	17T51T0019	Pentakota Akhila	✓	A	✓	✓	✓	✓
19	17T51T0020	Pirla Dhanya Swaroopa	A	A	A	A	A	A

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20	17T51T0021	Pulugurtha Sumathya	✓	✓	✓	✓	✓	✓
21	17T51T0022	Savara Gunasekhar	✓	✓	✓	✓	✓	A
22	17T51T0023	Shruti Bharadwaj	A	A	A	A	A	A
23	17T51T0024	Vejendla Geetha	A	A	A	A	A	A
24	17T51T0025	Tankala Mounika	✓	A	✓	✓	✓	✓
25	17T51T0026	Mendemu Ratnaj yothirmai	✓	✓	✓	✓	✓	✓
26	16T51T0003	B. Hemantha Nissi	✓	✓	✓	✓	✓	✓

*B. N. N.*  
Course Coordinator

*V. Uma Sankar*  
HOD

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25	17T51T0026	Mendemu Ratnajyothirmai	36	100%
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# CERTIFICATE OF PARTICIPATION

THE FOLLOWING CERTIFICATE IS GIVEN TO  
**KARI SREEVANI**

Bearing roll no. 17T51T0011 pursuing **IV Pharm D** has successfully completed Value added  
Course on "**FORENSIC TOXICOLOGY; TECHNIQUE FOR CLINICIANS**"  
held from 08-02-2021 to 13-02-2021.

*V. Uma Sankar*

Convener



*[Signature]*

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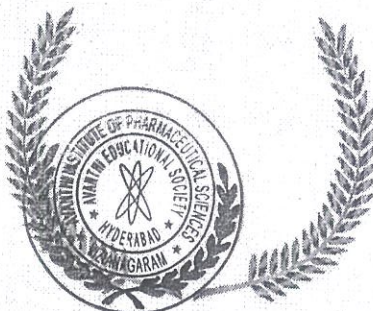
# CERTIFICATE OF PARTICIPATION

THE FOLLOWING CERTIFICATE IS GIVEN TO  
**SHAIK NAYAB**

Bearing roll no. 17T51T0013 pursuing **IV Pharm D** has successfully completed Value added  
Course on **"FORENSIC TOXICOLOGY; TECHNIQUE FOR CLINICIANS"**  
held from 08-02-2021 to 13-02-2021.

*V. Uma Sankar*

Convener



*[Signature]*

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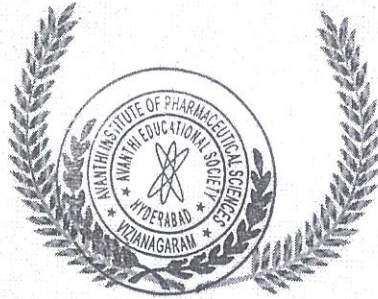
# CERTIFICATE OF PARTICIPATION

THE FOLLOWING CERTIFICATE IS GIVEN TO  
**MAROTHU NAVYA SREE**

Bearing roll no. 17T51T0016 pursuing **IV Pharm D** has successfully completed Value added  
Course on "**FORENSIC TOXICOLOGY; TECHNIQUE FOR CLINICIANS**"  
held from 08-02-2021 to 13-02-2021.

*V. Uma Sankar*

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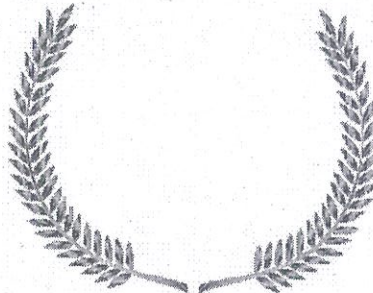
# CERTIFICATE OF PARTICIPATION

THE FOLLOWING CERTIFICATE IS GIVEN TO  
**SAVARA GUNASEKHAR**

Bearing roll no. 17T51T0022 pursuing **IV Pharm D** has successfully completed Value added  
Course on "**FORENSIC TOXICOLOGY; TECHNIQUE FOR CLINICIANS**"  
held from 08-02-2021 to 13-02-2021.

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# CERTIFICATE OF PARTICIPATION

THE FOLLOWING CERTIFICATE IS GIVEN TO  
**SHRUTI BHARADWAJ**

Bearing roll no. 17T51T0023 pursuing **IV Pharm D** has successfully completed Value added  
Course on "**FORENSIC TOXICOLOGY; TECHNIQUE FOR CLINICIANS**"  
held from 08-02-2021 to 13-02-2021.

*V. Umagan Kae*

Convener



*[Signature]*

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Principal  
Avanthi Institute of Pharmaceutical Sciences  
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## DEPARTMENT OF PHARMACY PRACTICE

Ref no: AIPS/Pharmacy Practice/2020-21/06

Date: 22-02-2021

### CIRCULAR

This is to inform all the students of V Pharm. D that a value-added course will be conducted on the topic “Principles and practices of pharmacovigilance” from 01/03/2021 to 06/03/2021 interested students are required to sign-up for the above mentioned course with “Mrs. G. SUPRIYA” Associate Professor in the Department of Pharmacy.



  
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Avanthi Institute of Pharmaceutical Sciences  
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## Institution

Avanthy Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapualasa Bridge adjacent to NH-16. Students of Avanthy boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



## Organizing Committee

### Cheif Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

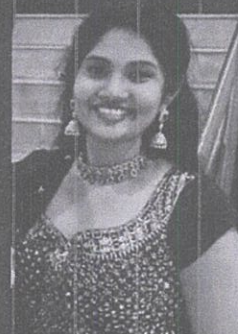
V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Ms. G. Supriya,  
Assistant Professor,



Sri Sivani College of  
Pharmacy.

### Organizing Committee

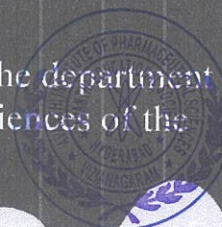
Dr. V. C. Randeep Raj, Assistant  
Professor

Dr. M.S.V. Sudeep, Assistant  
Professor

Dr. D. Subha Sri, Assistant Professor

### Members

All the faculty from the department  
of Pharmaceutical Sciences of the  
host institute

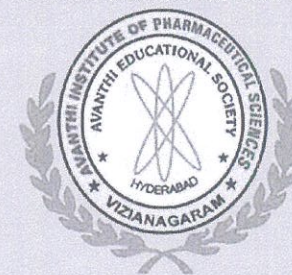


## 6 Days Workshop On Principles and Practices of Pharmacovigilance

01-03-2021 to 06-03-2021

Organized By:

DEPARTMENT OF  
PHARMACY



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BHOGAPURAM MANDAL, VIZIANAGARAM  
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ESTD : 2005

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Course Title	: Principles and practices of pharmacovigilance
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2021-22
Course Instructor	: Ms. G. Supriya, Assistant Professor, Sri Sivani College of Pharmacy, Srikakulam
Course Coordinator	: Dr. V. C. Randeep Raj Associate Professor
Dates	: 12-10-2020 to 17-10-2020
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/Pharm. D/2020/06

**Objectives:**

- Pharmacovigilance systems and infrastructure
- Regulatory compliance
- Signal detection
- Risk management
- Post marketing surveillance

**Outcomes:**

- Signal management
- Risk assessment
- Development and implementation of risk management plans
- Ethical considerations
- Quality assurance



  
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## Syllabus

- 1. Introduction to pharmacovigilance:**
  - Definition , scope and objectives
  - Historical perspective
  - Importance
  - National and international regulatory guidelines
  - Components
  - Information flow and reporting mechanisms
- 2. ADE Reporting and signal detection:**
  - Data collection and documentation
  - Reporting timelines and requirements
  - Methods
  - Evaluation and signal management
- 3. Risk assessment and Risk management:**
  - Concepts of Risk and benefit
  - Risk assessment
  - Development and implementation
  - Risk minimization
- 4. Communication and ethical considerations:**
  - Effective communication with stakeholders
  - Public awareness campaigns
  - Patient confidentiality
  - Informed consent
  - Transparency
- 5. Global PV and PMS:**
  - International PV networks
  - Collaborative initiatives
  - Real – world safety data collection
  - Surveillance methods and tools
- 6. Practical applications:**
  - Case studies
  - Data quality assurance measures
  - Improvement strategies

  
Course Coordinator



  
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## TIMETABLE

### CLASS: V PHARM. D

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20
MON	Principles and practices of pharmacovigilance	Break	Principles and practices of pharmacovigilance	Lunch	Principles and practices of pharmacovigilance	Principles and practices of pharmacovigilance	Break	Principles and practices of pharmacovigilance	Principles and practices of pharmacovigilance
TUE									
WED									
THU									
FRI									
SAT									

  
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Reference book: "Pharmacovigilance: Principles and Database Modules" by Patrick Waller and Sarah L. P. Illum

S.NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	12-10-2020	6hrs	<b>1. Introduction to pharmacovigilance:</b> <ul style="list-style-type: none"><li>• Definition , scope and objectives</li><li>• Historical perspective</li><li>• Importance</li><li>• National and international regulatory guidelines</li><li>• Components</li><li>• Information flow and reporting mechanisms</li></ul>
2.		13-10-2020	6hrs	<b>2. ADE Reporting and signal detection:</b> <ul style="list-style-type: none"><li>• Data collection and documentation</li><li>• Reporting timelines and requirements</li><li>• Methods</li><li>• Evaluation and signal management</li></ul>
3.		14-10-2020	6hrs	<b>3. Risk assessment and Risk management:</b> <ul style="list-style-type: none"><li>• Concepts of Risk and benefit</li><li>• Risk assessment</li><li>• Development and implementation</li><li>• Risk minimization</li></ul>



  
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4.		15-10-2020	6hrs	<b>4. Communication and ethical considerations:</b> <ul style="list-style-type: none"><li>• Effective communication with stakeholders</li><li>• Public awareness campaigns</li><li>• Patient confidentiality</li><li>• Informed consent</li><li>• Transparency</li></ul>
5.		16-10-2020	6hrs	<b>5. Global PV and PMS:</b> <ul style="list-style-type: none"><li>• International PV networks</li><li>• Collaborative initiatives</li><li>• Real – world safety data collection</li><li>• Surveillance methods and tools</li></ul>
6.		17-10-2020	6hrs	<b>6. Practical applications:</b> <ul style="list-style-type: none"><li>• Case studies</li><li>• Data quality assurance measures</li><li>• Improvement strategies</li></ul>

  
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### Assessment:

1. **What is the primary objective of pharmacovigilance?**
  - a. Drug development
  - b. Cost reduction
  - c. Patient safety
  - d. Marketing approval
2. **Which organization is responsible for regulating and overseeing pharmacovigilance activities?**
  - a. FDA
  - b. EMA
  - c. WHO
  - d. CDC
3. **What is the purpose of good pharmacovigilance practices (GVP)?**
  - a. To ensure low drug prices
  - b. To establish quality manufacturing processes
  - c. To provide guidelines for pharmacovigilance activities
  - d. To promote off-label drug use
4. **When should adverse events be reported to regulatory authorities?**
  - a. Within 30 days
  - b. Within 40 days
  - c. Immediately
  - d. Quarterly
5. **Which of the following is a common channel for healthcare professionals to report adverse drug reactions?**
  - a. Social media platforms
  - b. Patient forums
  - c. Spontaneous reporting systems
  - d. Marketing campaigns
6. **What is the main purpose of risk management plan (RMP)?**
  - a. To increase drug sales
  - b. To assess market competition
  - c. To minimize and manage risks associated with drug use
  - d. To expedite regulatory approvals
7. **Which of the following is a risk minimization strategy?**
  - a. Increasing drug dosage
  - b. Issuing a product recall
  - c. Providing patient education materials
  - d. Expanding the target patient population



  
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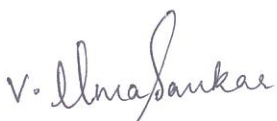
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8. **Why is global collaboration important in PV?**
  - a. To standardize drug prices
  - b. To enhance information sharing and signal detection
  - c. To facilitate expedited drug approvals
  - d. To minimize competition among pharmaceutical companies
9. **Which organization plays key role in coordinating international PV efforts?**
  - a. WHO
  - b. FDA
  - c. EMA
  - d. CDC
10. **Why is patient confidentiality important in PV?**
  - a. To protect pharmaceutical companies interests
  - b. To prevent legal liabilities
  - c. To encourage patients to report adverse events
  - d. To build public trusts in the PV system

  
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No. of Students Enrolled : 28

Subject : "Principles and practices of pharmacovigilance" V Pharm. D

S. No	Roll No.	Student Name
1	16T51T0001	Agata Sireesha
2	16T51T0002	Asi Jaya Lakshmi
3	16T51T0004	Bolem Omkar
4	16T51T0006	Dabbiru Mydhini
5	16T51T0007	Gujju Emmanuel
6	16T51T0008	J.Prameela
7	16T51T0009	Kotagiri Jyotsna Sai Mahitha
8	16T51T0010	Lekkala Raviteja
9	16T51T0011	Matlapudi Sudeer Kumar
10	16T51T0012	Mattapalli Glory
11	16T51T0013	Murala Prasanthi
12	16T51T0014	Nakka Hema Madhuri
13	16T51T0015	Nandam Thanusha
14	16T51T0016	Nandula Durga Sri Lalitha
15	16T51T0017	P. P. Ramiya
16	16T51T0018	Palikila Rishitha Reddy
17	16T51T0019	Polaki Jyoshna
18	16T51T0020	Prathul Paingoli



  
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19	16T51T0021	Sanaboina Akhila
20	16T51T0022	Sanniboyina Bhavya Anusha
21	16T51T0023	Sheik Sanjeeda Amreen
22	16T51T0024	Timmana Venkata Sai Geethika
23	16T51T0026	Yelleti Sainandini
24	16T51T0027	M.Supriya Mani
25	16T51T0029	L. Manoj Reddy
26	16T51T0030	T.Bala Saraswathi
27	15T51T0009	K Sowjanya
28	15T51T0018	G Oriana Crystal

  
**Course Coordinator**

  
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The students of 5<sup>th</sup> Pharm D certificate program attending “ **PRINCIPLES AND PRACTICES OF PHARMACOVIGILANCE**” by Associate Professor Mrs. G. Supriya, Sri Sivani college of Pharmacy, Srikakulam.



  
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V Pharm. D

S.No	Roll No.	Student Name	12/10/20	13/10/20	14/10/20	15/10/20	16/10/20	17/10/20
1	16T51T0001	Agata Sireesha	A	✓	✓	✓	✓	A
2	16T51T0002	Asi Jaya Lakshmi	✓	✓	✓	✓	✓	✓
3	16T51T0004	Bolem Omkar	A	✓	✓	✓	✓	✓
4	16T51T0006	Dabbiru Mydhini	✓	✓	✓	✓	✓	✓
5	16T51T0007	Gujju Emmanuel	A	✓	A	A	✓	✓
6	16T51T0008	J.Prameela	✓	✓	✓	✓	A	✓
7	16T51T0009	Kotagiri Jyotsna Sai Mahitha	✓	✓	✓	✓	✓	✓
8	16T51T0010	Lekkala Raviteja	✓	A	✓	✓	✓	✓
9	16T51T0011	Matlapudi Sudeer Kumar	✓	✓	✓	✓	✓	✓
10	16T51T0012	Mattapalli Glory	✓	✓	A	✓	✓	✓
11	16T51T0013	Murala Prasanthi	✓	✓	✓	A	✓	✓
12	16T51T0014	Nakka Hema Madhuri	✓	✓	✓	✓	✓	A
13	16T51T0015	Nandam Thanusha	✓	✓	✓	✓	✓	✓
14	16T51T0016	Nandula Durga Sri Lalitha	✓	A	✓	✓	✓	✓
15	16T51T0017	P P Ramiya	A	✓	✓	✓	✓	✓
16	16T51T0018	Palikila Rishitha Reddy	✓	✓	✓	✓	✓	✓
17	16T51T0019	Polaki Jyoshna	✓	✓	✓	✓	✓	✓
18	16T51T0020	Prathul Paingoli	✓	✓	✓	✓	A	✓

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19	16T51T0021	Sanaboina Akhila	✓	✓	✓	✓	✓	D
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21	16T51T0023	Sheik Sanjeeda Amreen	A	A	A	A	A	A
22	16T51T0024	TimmanaVenkata Sai Geethika	✓	✓	✓	✓	A	✓
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Course Coordinator

  
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4	16T51T0006	Dabbiru Mydhini	36	100%
5	16T51T0007	Gujju Emmanuel	18	50%
6	16T51T0008	J.Prameela	30	83%
7	16T51T0009	Kotagiri Jyotsna Sai Mahitha	36	100%
8	16T51T0010	Lekkala Raviteja	30	83%
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12	16T51T0014	Nakka Hema Madhuri	30	83%
13	16T51T0015	Nandam Thanusha	36	100%
14	16T51T0016	Nandula Durga Sri Lalitha	30	83%
15	16T51T0017	P P Ramiya	30	83%
16	16T51T0018	Palikila Rishitha Reddy	36	100%
17	16T51T0019	Polaki Jyoshna	36	100%
18	16T51T0020	Prathul Paingoli	30	83%



*[Signature]*  
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20	16T51T0022	Sanniboyina Bhavya Anusha	36	100%
21	16T51T0023	Sheik Sanjeeda Amreen	Nil	0%
22	16T51T0024	Timmana Venkata Sai Geethika	30	83%
23	16T51T0026	Yelleti Sainandini	36	100%
24	16T51T0027	M.Supriya Mani	30	83%
25	16T51T0029	L. Manoj Reddy	36	100%
26	16T51T0030	T.Bala Saraswathi	30	83%
27	15T51T0009	K Sowjanya	24	66%
28	15T51T0018	G Oriana Crystal	30	83%

  
**Course Coordinator**

  
**HOD**

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CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
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# CERTIFICATE OF PARTICIPATION

THE FOLLOWING CERTIFICATE IS GIVEN TO  
**NAKKA HEMA MADHURI**

Bearing roll no. 16T51T0014 pursuing **V Pharm D** has successfully completed Value added  
Course on **"PRINCIPLE AND PRACTICE OF PHARMACOVIGILANCE"**  
held from 01-03-2021 to 06-03-2021.

*V. Unnikrishna*

Convener



*[Signature]*  
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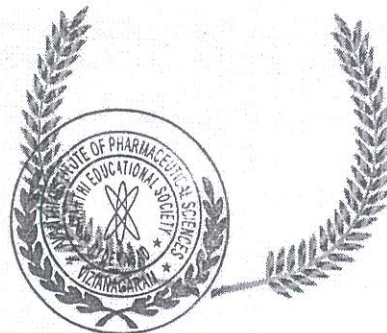
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*V. Uma Sankar*

Convener



*[Signature]*

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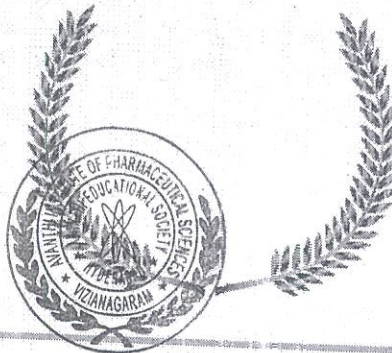
# CERTIFICATE OF PARTICIPATION

THE FOLLOWING CERTIFICATE IS GIVEN TO  
**SHEIK SANJEEDA AMREEN**

Bearing roll no. 16T51T0023 pursuing **V Pharm D** has successfully completed Value added  
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*V. Lingankar*

Convener



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THE FOLLOWING CERTIFICATE IS GIVEN TO  
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held from 01-03-2021 to 06-03-2021.

*V. Uma Sankar*

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THE FOLLOWING CERTIFICATE IS GIVEN TO  
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*V. Uma Sankar*

Convener



*AVS*

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### DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2020-21/07

Date: 08-03-2021

### CIRCULAR

This is to inform all the students of I B. Pharmacy and Pharm. D that a value-added course will be conducted on the topic "Pricing Transparency and Ethics in Pharmacy" from 15/03/2021 to 20/03/2021 interested students are required to sign-up for the above mentioned course with "Mrs. B. BHAGYA SRI" Associate Professor in the Department of Pharmacy.



  
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## Institution

Avanthy Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapuvalasa Bridge adjacent to NH-16. Students of Avanthy boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



## Organizing Committee

### Cheif Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Ms. B. Bhagyasri,  
Associate Professor.



Avanthy Institute of  
Pharmaceutical  
Sciences.

## Organizing Committee

Mr. K. Venkata Radhika, Assistant  
Professor

Dr. T. Rushi, Assistant Professor

Dr. D. Subha Sri, Assistant Professor

## Members

All the faculty from the department  
of Pharmaceutical Sciences of the  
host institute

## 6 Days Workshop

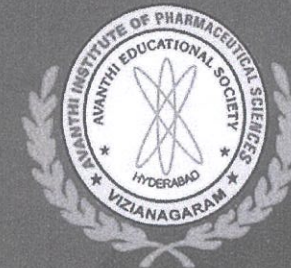
On

## Pricing Transparency and Ethics in Pharmacy

15/03/2021 - 20/03/2021

Organized By:

DEPARTMENT OF  
PHARMACY PRACTICE



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Course Title	: Pricing Transparency and Ethics in Pharmacy
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2020-21
Course Instructor	: Mrs. B. Bhagya Sri Associate Professor, Avanthi Institute of Pharmaceutical Sciences, Vizianagaram
Course Coordinator	: Mr. S. Chandra Sekar, Associate Professor
Dates	: 15-03-2021 to 20-03-2021
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/B. Pharm &amp; Pharm. D/2020/07</b>


**Objectives:**

- Ensure that pharmacies clearly communicate the prices of pharmaceutical products and services to patients before dispensing.
- Make pricing information easily accessible to patients, either through online platforms, signage in-store, or through direct communication with pharmacy staff.
- Eliminate hidden fees or charges that are not communicated upfront to patients.
- Encourage the use of generic medications and ensure that pharmacists provide information about cost-effective alternatives to branded drugs.

**Outcomes:**

- Improved access to medications for patients.
- Empowered patients making informed choices.
- Strengthened trust between patients and pharmacists.
- Mitigation of healthcare disparities.
- Adherence to ethical and legal standards.
- Increased competition and potential for innovation.



  
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## Syllabus

- 1. Introduction to Pharmaceutical Ethics**
  - Overview of ethical theories and principles
  - Application of ethical principles to pharmacy practice
  - Importance of ethical decision-making in healthcare
- 2. Regulatory Frameworks in Pharmacy**
  - Introduction to pharmaceutical regulations
  - Regulatory bodies and their roles
  - Current regulatory frameworks addressing pricing transparency
- 3. Pharmaceutical Pricing Models**
  - Understanding pricing structures in the pharmaceutical industry
  - Factors influencing drug pricing
  - Challenges in determining fair and transparent pricing
- 4. Impact of Drug Pricing on Patient Access**
  - Accessibility and affordability of medications
  - Case studies on the impact of high drug prices on patients
  - Ethical considerations in ensuring equitable access to medications
- 5. Transparency in Pharmacy Practice**
  - Importance of pricing transparency
  - Disclosure of pricing information to patients
  - Best practices for transparent pharmacy operations
- 6. Ethical Decision-Making in Pharmacy**
  - Ethical dilemmas in pharmacy practice
  - Decision-making models
  - Case studies on ethical challenges in drug pricing

*S. Chandela*  
**Course Coordinator**



*N. Weelue*  
**HOD**

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## TIMETABLE

### CLASS: I B. PHARMACY

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Pricing Transparency and Ethics in Pharmacy	Break	Pricing Transparency and Ethics in Pharmacy	Lunch	Pricing Transparency and Ethics in Pharmacy	Pricing Transparency and Ethics in Pharmacy	Break	Pricing Transparency and Ethics in Pharmacy	Pricing Transparency and Ethics in Pharmacy
TUE									
WED									
THU									
FRI									
SAT									

### CLASS: I PHARM. D

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Pricing Transparency and Ethics in Pharmacy	Break	Pricing Transparency and Ethics in Pharmacy	Lunch	Pricing Transparency and Ethics in Pharmacy	Pricing Transparency and Ethics in Pharmacy	Break	Pricing Transparency and Ethics in Pharmacy	Pricing Transparency and Ethics in Pharmacy
TUE									
WED									
THU									
FRI									
SAT									

*S. Chaudhary*  
Course Coordinator



*N. Deelina*  
HOD

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Reference book: "Antibiotic Resistance: Understanding and Responding to an Emerging Crisis" by K. S. Kim

S.NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	18-01-2021	6hrs	<b>1. Introduction to Pharmaceutical Ethics</b> <ul style="list-style-type: none"><li>• Overview of ethical theories and principles</li><li>• Application of ethical principles to pharmacy practice</li><li>• Importance of ethical decision-making in healthcare</li></ul>
2.		19-01-2021	6hrs	<b>2. Regulatory Frameworks in Pharmacy</b> <ul style="list-style-type: none"><li>• Introduction to pharmaceutical regulations</li><li>• Regulatory bodies and their roles</li><li>• Current regulatory frameworks addressing pricing transparency</li></ul>
3.		20-01-2021	6hrs	<b>3. Pharmaceutical Pricing Models</b> <ul style="list-style-type: none"><li>• Understanding pricing structures in the pharmaceutical industry</li><li>• Factors influencing drug pricing</li><li>• Challenges in determining fair and transparent pricing</li></ul>
4.		21-01-2021	6hrs	<b>4. Impact of Drug Pricing on Patient Access</b> <ul style="list-style-type: none"><li>• Accessibility and affordability of medications</li><li>• Case studies on the impact of high drug prices on patients</li><li>• Ethical considerations in ensuring equitable access to medications</li></ul>



  
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5.		22-01-2021	6hrs	<b>5. Transparency in Pharmacy Practice</b> <ul style="list-style-type: none"><li>• Importance of pricing transparency</li><li>• Disclosure of pricing information to patients</li><li>• Best practices for transparent pharmacy operations</li></ul>
6.		23-01-2021	6hrs	<b>6. Ethical Decision-Making in Pharmacy</b> <ul style="list-style-type: none"><li>• Ethical dilemmas in pharmacy practice</li><li>• Decision-making models</li><li>• Case studies on ethical challenges in drug pricing</li></ul>

*S. Chandra*  
Course Coordinator

*N. Neelima*  
HOD

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**Assessment:**

1. **What is pricing transparency in pharmacy?**
  - a. The practice of setting prices without disclosing them
  - b. The disclosure of drug prices to patients and stakeholders
  - c. The exclusive pricing strategy for generic medications
  - d. The promotion of discounted drugs without revealing the actual costs
2. **Why is pricing transparency important in pharmacy?**
  - a. To confuse patients about the actual cost of medications
  - b. To promote higher drug prices for increased profits
  - c. To empower patients to make informed decisions about their healthcare
  - d. To limit access to drug pricing information
3. **Which ethical principle emphasizes the duty of pharmacists to respect the autonomy of patients?**
  - a. Beneficence
  - b. Non-maleficence
  - c. Autonomy
  - d. Justice
4. **In the context of pharmacy ethics, what does the principle of non-maleficence mean?**
  - a. Promoting the well-being of patients
  - b. Respecting patient autonomy
  - c. Avoiding harm to patients
  - d. Ensuring fair distribution of resources
5. **A pharmacy that consistently charges significantly higher prices for the same medication compared to other pharmacies may be considered:**
  - a. Ethical
  - b. b) Transparent
  - c. Unethical
  - d. Benevolent
6. **What role does the pharmacist play in promoting pricing transparency?**
  - a. Concealing pricing information from patients
  - b. Providing accurate and accessible pricing information to patients
  - c. Advocating for higher drug prices
  - d. Ignoring patient inquiries about medication costs
7. **Which of the following actions aligns with the principle of beneficence in pharmacy ethics?**
  - a. Disclosing accurate drug prices to patients
  - b. Charging excessive prices for medications
  - c. Hiding pricing information from patients
  - d. Denying access to affordable medications



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8. What is the primary purpose of a pharmacy's Code of Ethics?
  - a. To maximize profits
  - b. To guide ethical behavior and decision-making
  - c. To conceal pricing information
  - d. To restrict patient access to medication detail
9. Which ethical principle emphasizes the fair distribution of healthcare resources, including medications?
  - a. Autonomy
  - b. Non-maleficence
  - c. Beneficence
  - d. Justice
10. How does pricing transparency contribute to ethical pharmacy practice?
  - a. By creating confusion among patients
  - b. By empowering patients to make informed decisions
  - c. c) By concealing drug prices to maximize profits
  - d. d) By limiting patient access to pricing information

*S. Chandrasekhara*  
Course Coordinator

*N. Neelima*  
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Date : 15-03-2021 to 20-03-2021  
No. of Students Enrolled : 96  
Subject : "Pricing Transparency and Ethics in Pharmacy"  
I B. Pharmacy

S. No	Roll No.	Student Name
1	20T51R0001	Aakula Mariyamma
2	20T51R0002	Addakula Nandini
3	20T51R0003	Addanki Anil Kumar
4	20T51R0004	Akkireddy Mohan Krishna
5	20T51R0005	Ampolu Priyanka
6	20T51R0008	Arika Swathi
7	20T51R0009	Bankapalli Anuradha
8	20T51R0010	Bara Uma Sivani
9	20T51R0012	Batna Lavanya
10	20T51R0013	Bavana Tejaswini
11	20T51R0014	Bevara Bhavana
12	20T51R0015	Bhavarapu Raviteja
13	20T51R0016	Bonala Radha Shyam Priya
14	20T51R0017	Boosa Vara Naveen Reddy
15	20T51R0018	Chidireddy Devi Divya
16	20T51R0019	Chigurupati Himasri
17	20T51R0020	Chinthapalli Kavya
18	20T51R0021	Chitti Ganesh



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20	20T51R0023	Dhuvvana Ramya Varshini
21	20T51R0024	Doddi Manikanta
22	20T51R0025	Dummu Yamuna
23	20T51R0026	Dusuru Santhosh
24	20T51R0027	Elipothi Ramya
25	20T51R0028	Emandi Komal Hari Rama Krishna
26	20T51R0029	Erothi Bhargavi
27	20T51R0030	Gangireddy Meghana
28	20T51R0031	Ganganitha
29	20T51R0032	Geddapu Susritha
30	20T51R0033	Gorakala Gayathri
31	20T51R0034	Gorele Chandrika
32	20T51R0035	Gutti Sai Yeswanth
33	20T51R0036	Indigabilli Oliva Kumari
34	20T51R0037	Itamsetti Indu
35	20T51R0038	Jagana Thanmai
36	20T51R0039	Jakkireddy Ajay Reddy
37	20T51R0040	Jammu Jenni Paul
38	20T51R0041	Jonnapalli Alaja
39	20T51R0042	Kamisetty Jyothsna
40	20T51R0043	Kanuri Lehari Aparna Sriyani



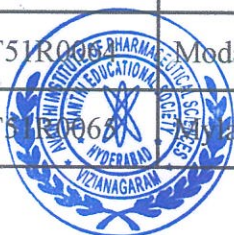
  
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41	20T51R0044	Karri Devi
42	20T51R0045	Kattevarapu Srinivasa Rao
43	20T51R0046	Kesa Harika
44	20T51R0047	Kilari Usha Rani
45	20T51R0048	Kinjangi Neerajapriya
46	20T51R0049	Kommala Rupa
47	20T51R0050	Kona Lohitha
48	20T51R0051	Kontajaya Lakshmi
49	20T51R0052	Korada Jayasri
50	20T51R0053	Korakula Viditha
51	20T51R0054	Kosana Jahnvi
52	20T51R0055	Kotipalli Balu
53	20T51R0056	Koyya Yamuna
54	20T51R0057	Kunkupudi Divya Ratna
55	20T51R0058	M S K Poojitha
56	20T51R0059	Mahanthi Gayathri
57	20T51R0060	Majji Purnima
58	20T51R0061	Makka Keerthana
59	20T51R0062	Masa Samuel Raj
60	20T51R0063	Metta Gayathri
61	20T51R0064	Modalavalasa Sravani
62	20T51R0065	Napilli Prasanna Lakshmi



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63	20T51R0066	Nandika Jyothi
64	20T51R0067	Naramsetti Jhansi
65	20T51R0068	Neelamsetti Bala Shankar
66	20T51R0070	Orlotu Rasmitha
67	20T51R0071	Palavani Vyshnavi
68	20T51R0072	Pandiri Rajeev
69	20T51R0073	Panthagada Sruthi
70	20T51R0074	Pathivada Manisha
71	20T51R0075	Patnala Jayanth Sri Harsha
72	20T51R0076	Pattika Mukhesh
73	20T51R0077	Pavan Kumar Meela
74	20T51R0078	Pinapatruni Dhana Sai Teja
75	20T51R0079	Pondala Sai Sireesha
76	20T51R0080	Pragada Nisha
77	20T51R0081	Pulakhaandam Nagavadrhan
78	20T51R0082	Rokkam Eswararao
79	20T51R0083	Sarapenta Sravani
80	20T51R0084	Sharma Jyothirmai
81	20T51R0085	Siripuram Kiran Dattatreya
82	20T51R0086	Suratha Hari Sai
83	20T51R0087	Tanga Raj Latha Sri
84	20T51R0088	Thammineni Bhargavi



  
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85	20T51R0089	Thanuku Ashika Sai
86	20T51R0090	Thota Lohitha
87	20T51R0091	Vadakkeveetil Leah Suzeine Raju
88	20T51R0092	Vajrapu Harika
89	20T51R0093	Varanas Abhilash
90	20T51R0094	Vasupalli Lavanya
91	20T51R0095	Veluswamy Gayathri
92	20T51R0096	Vemakoti Hemanth Kumar
93	20T51R0097	Yamala Adi Lakshmi
94	20T51R0098	Yarra Jhansi
95	20T51R0099	Yarrarapu Iswarya
96	20T51R01A0	Yetchrla Tharun

*S. choudhary*  
Course Coordinator

*N. Weelie*  
HOD

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CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



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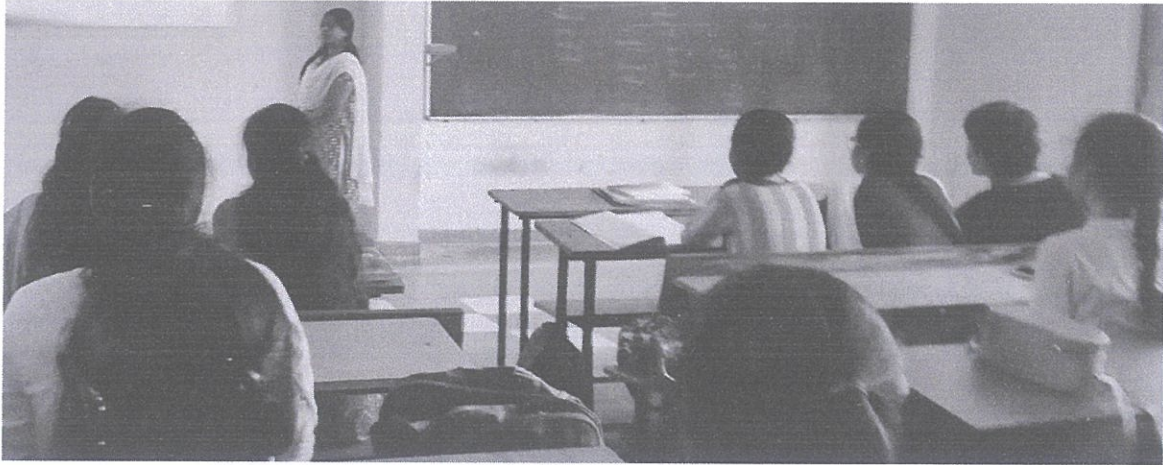


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The students of 1<sup>st</sup> year Pharm D certificate program attending “PRICING  
TRANSPARENCY & ETHICS IN PHARMACY” by Mrs. B. Bhagya Sri Associate  
Professor Avanthi Institute of Pharmaceutical Sciences, Vizianagaram



*Principal*  
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Date : 18-01-2021 to 23-01-2021

Subject : "Pricing Transparency and Ethics in Pharmacy"

I B. Pharmacy

S. No	Roll No.	Student Name	18/01/21	19/01/21	20/01/21	21/01/21	22/01/21	23/01/21
1	20T51R0001	Aakula Maryamma	✓	✓	✓	✓	✓	✓
2	20T51R0002	Addakula Nandini	✓	A	✓	✓	✓	✓
3	20T51R0003	Addanki Anil Kumar	✓	✓	✓	✓	✓	✓
4	20T51R0004	Akkireddy Mohan Krishna	A	A	A	A	A	A
5	20T51R0005	Ampolu Priyanka	✓	✓	✓	✓	✓	✓
6	20T51R0008	Arika Swathi	✓	✓	✓	✓	✓	✓
7	20T51R0009	Bankapalli Anuradha	✓	✓	✓	✓	A	✓
8	20T51R0010	Bara Uma Sivani	✓	✓	✓	✓	✓	✓
9	20T51R0012	Batna Lavanya	✓	A	✓	A	✓	✓
10	20T51R0013	Bavana Tejaswini	✓	✓	A	✓	✓	✓
11	20T51R0014	Bevara Bhavana	✓	✓	✓	✓	✓	✓
12	20T51R0015	Bhavarapu Raviteja	✓	✓	✓	A	✓	✓
13	20T51R0016	Bonala Radha Shyam Priya	✓	✓	✓	✓	✓	✓
14	20T51R0017	Boosa Vara Naveen Reddy	✓	A	✓	✓	✓	✓
15	20T51R0018	Chidireddy Devi Divya	✓	✓	✓	✓	✓	✓
16	20T51R0019	Chigurupati Himasri	✓	A	✓	✓	✓	✓
17	20T51R0020	Chinthapalli Kavya	✓	✓	✓	✓	✓	✓
18	20T51R0021	Chitti Ganesh	A	A	A	A	A	A
19	20T51R0022	Dayanidhi Pavani	✓	✓	✓	✓	✓	✓

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20	20T51R0023	Dhuvvana Ramya Varshini	✓	✓	✓	✓	✓	✓
21	20T51R0024	Doddi Manikanta	✓	✓	✓	✓	✓	✓
22	20T51R0025	Dummu Yamuna	✓	✓	✓	✓	✓	✓
23	20T51R0026	Dusuru Santhosh	A	A	A	A	A	A
24	20T51R0027	Elipothi Ramya	✓	✓	✓	✓	✓	✓
25	20T51R0028	Emandi Komal Hari Rama Krishna	✓	✓	✓	✓	✓	✓
26	20T51R0029	Erothi Bhargavi	✓	✓	✓	✓	✓	✓
27	20T51R0030	Gangireddy Meghana	✓	✓	✓	✓	✓	✓
28	20T51R0031	Ganganitha	✓	✓	✓	✓	✓	✓
29	20T51R0032	Geddapu Susritha	✓	✓	✓	✓	✓	✓
30	20T51R0033	Gorakala Gayathri	✓	✓	✓	✓	✓	✓
31	20T51R0034	Gorele Chandrika	✓	✓	✓	✓	✓	✓
32	20T51R0035	Gutti Sai Yeswanth	A	A	A	A	A	A
33	20T51R0036	Indigabilli Oliva Kumari	✓	✓	✓	✓	✓	✓
34	20T51R0037	Itamsetti Indu	✓	✓	✓	A	A	✓
35	20T51R0038	Jagana Thanmai	✓	✓	✓	✓	✓	✓
36	20T51R0039	Jakkireddy Ajay Reddy	✓	✓	✓	✓	✓	✓
37	20T51R0040	Jammu Jenni Paul	✓	✓	✓	✓	✓	✓
38	20T51R0041	Jonnepalli Alaja	✓	✓	✓	A	✓	✓
39	20T51R0042	Kamisetty Jyothsna	✓	✓	✓	✓	✓	✓
40	20T51R0043	Kanuri Lehari Aparna Sriyani	✓	✓	✓	✓	✓	A
41	20T51R0044	Karri Devi	✓	✓	✓	✓	✓	✓

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42	20T51R0045	Kattevarapu Srinivasa Rao	✓	✓	✓	✓	✓	✓
43	20T51R0046	Kesa Harika	✓	✓	✓	✓	✓	✓
44	20T51R0047	Kilari Usha Rani	✓	✓	✓	✓	✓	✓
45	20T51R0048	Kinjangi Neerajapriya	✓	✓	✓	✓	✓	✓
46	20T51R0049	Kommala Rupa	✓	✓	✓	✓	✓	✓
47	20T51R0050	Kona Lohitha	✓	A	✓	✓	✓	✓
48	20T51R0051	Kontajaya Lakshmi	✓	✓	✓	✓	✓	✓
49	20T51R0052	Korada Jayasri	✓	✓	✓	A	✓	✓
50	20T51R0053	Korakula Viditha	✓	✓	✓	✓	✓	✓
51	20T51R0054	Kosana Jahnvi	✓	✓	✓	✓	✓	✓
52	20T51R0055	Kotipalli Balu	✓	✓	✓	✓	✓	✓
53	20T51R0056	Koyya Yamuna	✓	✓	✓	✓	✓	✓
54	20T51R0057	Kunkupudi Divya Ratna	✓	A	✓	✓	✓	✓
55	20T51R0058	M S K Poojitha	✓	A	✓	A	✓	✓
56	20T51R0059	Mahanthi Gayathri	✓	✓	✓	✓	✓	✓
57	20T51R0060	Majji Purnima	✓	✓	✓	✓	✓	✓
58	20T51R0061	Makka Keerthana	✓	✓	✓	✓	✓	✓
59	20T51R0062	Masa Samuel Raj	✓	✓	✓	✓	✓	✓
60	20T51R0063	Metta Gayathri	✓	✓	✓	✓	✓	✓
61	20T51R0064	Modalavalasa Sravani	✓	✓	✓	✓	✓	✓
62	20T51R0065	Mylapilli Prasanna Lakshmi	✓	A	✓	✓	✓	A
63	20T51R0066	Nandika Jyothi	✓	✓	✓	✓	✓	✓

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64	20T51R0067	Naramsetti Jhansi	✓	✓	✓	✓	✓	✓
65	20T51R0068	Neelamsetti Bala Shankar	✓	✓	✓	✓	✓	✓
66	20T51R0070	Orlotu Rasmitha	✓	✓	✓	✓	✓	✓
67	20T51R0071	Palavani Vyshnavi	✓	✓	A	A	✓	✓
68	20T51R0072	Pandiri Rajeev	✓	✓	✓	✓	A	✓
69	20T51R0073	Panthagada Sruthi	✓	✓	✓	✓	✓	✓
70	20T51R0074	Pathivada Manisha	✓	✓	✓	✓	✓	✓
71	20T51R0075	Patnala Jayanth Sri Harsha	✓	✓	✓	✓	✓	✓
72	20T51R0076	Pattika Mukhesh	✓	✓	✓	✓	✓	✓
73	20T51R0077	Pavan Kumar Meela	✓	✓	✓	✓	✓	✓
74	20T51R0078	Pinapatruni Dhana Sai Teja	A	✓	✓	✓	✓	✓
75	20T51R0079	Pondala Sai Sireesha	✓	✓	✓	✓	✓	✓
76	20T51R0080	Pragada Nisha	✓	✓	✓	✓	✓	✓
77	20T51R0081	Pulakhaandam Nagavadrhan	✓	✓	✓	✓	✓	✓
78	20T51R0082	Rokkam Eswararao	✓	✓	✓	✓	✓	✓
79	20T51R0083	Sarapenta Sravani	✓	✓	✓	✓	✓	✓
80	20T51R0084	Sharma Jyothirmai	✓	✓	✓	✓	✓	✓
81	20T51R0085	Siripuram Kiran Dattatreya	✓	✓	✓	✓	✓	✓
82	20T51R0086	Suratha Hari Sai	A	✓	✓	✓	✓	✓
83	20T51R0087	Tanga Raj Latha Sri	✓	✓	✓	✓	✓	✓
84	20T51R0088	Thammineni Bhargavi	✓	✓	✓	✓	✓	✓
85	20T51R0089	Thanuku Ashika Sai	✓	✓	✓	✓	✓	A

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86	20T51R0090	Thota Lohitha	✓	✓	✓	✓	✓	✓
87	20T51R0091	Vadakkeveetil Leah Suzeine Raju	✓	✓	✓	✓	✓	✓
88	20T51R0092	Vajrapu Harika	✓	A	✓	✓	✓	✓
89	20T51R0093	Varanas Abhilash	✓	✓	✓	✓	✓	✓
90	20T51R0094	Vasupalli Lavanya	✓	✓	✓	✓	✓	✓
91	20T51R0095	Veluswamy Gayathri	✓	✓	✓	✓	✓	✓
92	20T51R0096	Vemakoti Hemanth Kumar	A	✓	✓	✓	A	✓
93	20T51R0097	Yamala Adi Lakshmi	✓	✓	✓	✓	✓	✓
94	20T51R0098	Yarra Jhansi	✓	✓	✓	✓	✓	A
95	20T51R0099	Yarrarapu Iswarya	✓	✓	✓	✓	✓	✓
96	20T51R01A0	YetchrlaTharun	A	✓	✓	✓	✓	✓

*S. Chandrasekhar*  
Course Coordinator

*N. Veelina*  
HOD

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CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



*[Signature]*  
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Date : 15-03-2021 to 20-03-2021

No. of Students Enrolled 96

Subject : "Pricing Transparency and Ethics in Pharmacy"  
I B. Pharmacy

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	20T51R0001	Aakula Mariyamma	36	100%
2	20T51R0002	Addakula Nandini	30	83%
3	20T51R0003	Addanki Anil Kumar	36	100%
4	20T51R0004	Akkireddy Mohan Krishna	0	0%
5	20T51R0005	Ampolu Priyanka	36	100%
6	20T51R0008	Arika Swathi	36	100%
7	20T51R0009	Bankapalli Anuradha	30	83%
8	20T51R0010	Bara Uma Sivani	36	100%
9	20T51R0012	Batna Lavanya	24	66%
10	20T51R0013	Bavana Tejaswini	30	83%
11	20T51R0014	Bevara Bhavana	36	100%
12	20T51R0015	Bhavarapu Raviteja	30	83%
13	20T51R0016	Bonala Radha Shyam Priya	36	100%
14	20T51R0017	Boosa Vara Naveen Reddy	30	83%
15	20T51R0018	Chidireddy Devi Divya	36	100%
16	20T51R0019	Chinnurupati Himasri	30	83%
17	20T51R0020	Chinnurupati Kavya	36	100%



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ESTD : 2005

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18	20T51R0021	Chitti Ganesh	Nil	0%
19	20T51R0022	Dayanidhi Pavani	36	100%
20	20T51R0023	Dhuvvana Ramya Varshini	36	100%
21	20T51R0024	Doddi Manikanta	36	100%
22	20T51R0025	Dummu Yamuna	36	100%
23	20T51R0026	Dusuru Santhosh	Nil	0%
24	20T51R0027	Elipothi Ramya	36	100%
25	20T51R0028	Emandi Komal Hari Rama Krishna	36	100%
26	20T51R0029	Erothi Bhargavi	36	100%
27	20T51R0030	Gangireddy Meghana	36	100%
28	20T51R0031	Ganganitha	36	100%
29	20T51R0032	Geddapu Susritha	36	100%
30	20T51R0033	Gorakala Gayathri	36	100%
31	20T51R0034	Gorele Chandrika	36	100%
32	20T51R0035	Gutti Sai Yeswanth	Nil	0%
33	20T51R0036	Indigabilli Oliva Kumari	36	100%
34	20T51R0037	Itamsetti Indu	24	66%
35	20T51R0038	Jagana Thanmai	36	100%
36	20T51R0039	Jakkireddy Ajay Reddy	36	100%
37	20T51R0040	Jammu Jenni Paul	36	100%
38	20T51R0041	Kannapalli Alaja	30	83%
39	20T51R0042	Kannasetty Jyothsna	36	100%



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40	20T51R0043	Kanuri Lehari Aparna Sriyani	30	83%
41	20T51R0044	Karri Devi	36	100%
42	20T51R0045	Kattevarapu Srinivasa Rao	36	100%
43	20T51R0046	Kesa Harika	36	100%
44	20T51R0047	Kilari Usha Rani	36	100%
45	20T51R0048	Kinjangi Neerajapriya	36	100%
46	20T51R0049	Kommala Rupa	36	100%
47	20T51R0050	Kona Lohitha	30	83%
48	20T51R0051	Kontajaya Lakshmi	36	100%
49	20T51R0052	Korada Jayasri	30	83%
50	20T51R0053	Korakula Viditha	36	100%
51	20T51R0054	Kosana Jahnavi	36	100%
52	20T51R0055	Kotipalli Balu	36	100%
53	20T51R0056	Koyya Yamuna	36	100%
54	20T51R0057	Kunkupudi Divya Ratna	30	83%
55	20T51R0058	M S K Poojitha	24	66%
56	20T51R0059	Mahanthi Gayathri	36	100%
57	20T51R0060	Majji Purnima	36	100%
58	20T51R0061	Makka Keerthana	36	100%
59	20T51R0062	Masa Samuel Raj	36	100%
60	20T51R0063	Meda Gayathri	36	100%
61	20T51R0064	Meda Chavalasa Sravani	36	100%



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63	20T51R0066	Nandika Jyothi	36	100%
64	20T51R0067	Naramsetti Jhansi	36	100%
65	20T51R0068	Neelamsetti Bala Shankar	36	100%
66	20T51R0070	Orlotu Rasmitha	36	100%
67	20T51R0071	Palavani Vyshnavi	24	66%
68	20T51R0072	Pandiri Rajeev	30	83%
69	20T51R0073	Panthagada Sruthi	36	100%
70	20T51R0074	Pathivada Manisha	36	100%
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72	20T51R0076	Pattika Mukhesh	36	100%
73	20T51R0077	Pavan Kumar Meela	36	100%
74	20T51R0078	Pinapatruni Dhana Sai Teja	30	83%
75	20T51R0079	Pondala Sai Sireesha	36	100%
76	20T51R0080	Pragada Nisha	36	100%
77	20T51R0081	Pulakhaandam Nagavadrddhan	36	100%
78	20T51R0082	Rokkam Eswararao	36	100%
79	20T51R0083	Sarapenta Sravani	36	100%
80	20T51R0084	Sharma Jyothirmai	36	100%
81	20T51R0085	Siripuram Kiran Dattatreya	36	100%
82	20T51R0086	Suratha Hari Sai	30	83%
83	20T51R0087	Tanga Raj Latha Sri	36	100%



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88	20T51R0092	Vajrapu Harika	30	83%
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91	20T51R0095	Veluswamy Gayathri	36	100%
92	20T51R0096	Vemakoti Hemanth Kumar	24	66%
93	20T51R0097	Yamala Adi Lakshmi	36	100%
94	20T51R0098	Yarra Jhansi	30	83%
95	20T51R0099	Yarrarapu Iswarya	36	100%
96	20T51R01A0	Yetchrla Tharun	30	83%

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Course Coordinator

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*V. Uma Sankar*

Convener



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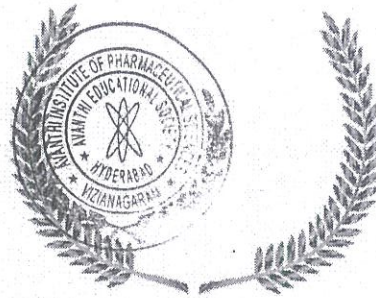
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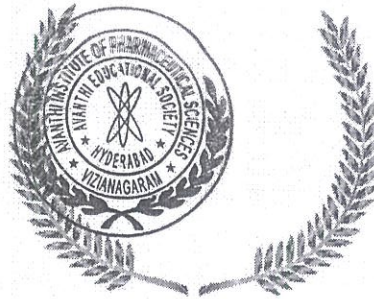
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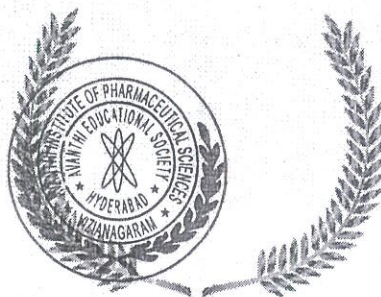
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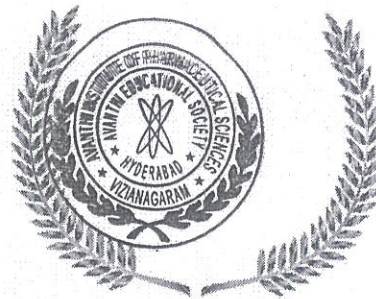
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**DEPARTMENT OF PHARMACY PRACTICE**


Ref no: AIPS/Pharmacy Practice/2020-21/08

Date: 15-03-2021

**CIRCULAR**

This is to inform all the students of II Pharm. D that a value-added course will be conducted on the topic “Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials” from 22/03/2021 to 27/03/2021 interested students are required to sign-up for the above mentioned course with “Mrs. K. SWATHI PRIYA” Assistant Professor in the Department of Pharmacy.

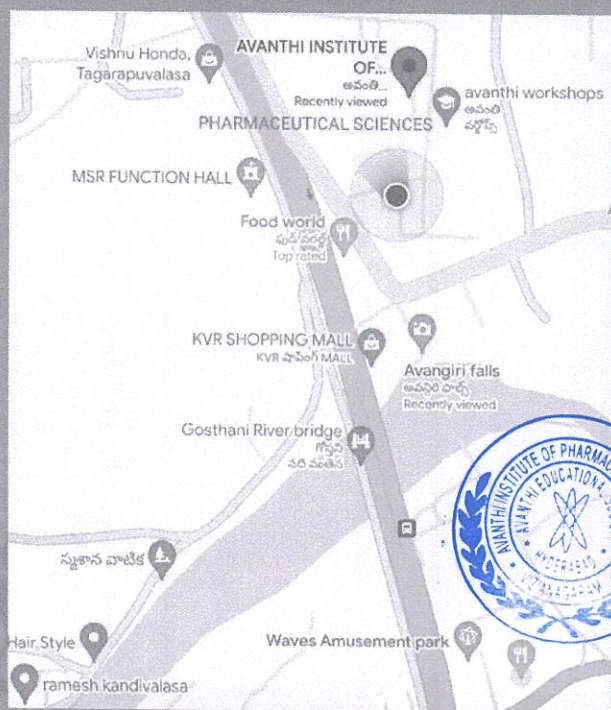


  
Principal  
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## Institution

Avanthy Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapuvalasa Bridge adjacent to NH-16. Students of Avanthy boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



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Chairperson, AIPS

### Patron

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### Convener

V. Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Mrs. K. Swathi Priya,  
Associate Professor,



Avanthy Institute of  
Pharmaceutical  
Sciences

## Organizing Committee

Dr. T. Rushi, Assistant Professor

Dr. M. S V. Sudeep, Assistant  
Professor

Dr. D. Subha Sri, Assistant Professor

## Members

All the faculty from the department  
of Pharmaceutical Sciences of the  
host institute

## 6 Days Workshop On Exploration of Carbohydrates from Botanical Sources to Therapeutic Potentials

22/03/2021 - 27/03/2021

Organized By:

DEPARTMENT OF  
PHARMACY PRACTICE



AVANTHY INSTITUTE OF  
PHARMACEUTICAL  
SCIENCES

(APPROVED BY PCI, A.I.C. TE, NEW  
DELHI, AFFILIATED TO J.N.T.U.K,  
KAKINADA)

CHEERUKUPALLY (VILLAGE), NEAR  
PRINCIPAL  
BHOGAPUVALASA BRIDGE,  
VIZIANAGARAM

Avanthy Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., 531162  
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# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Course Title	: Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2018-19
Course Instructor	: Mrs. K. Swathi Priya, Associate Professor, Srinivasa college of Pharmacy, PM Palem, Visakhapatnam
Course Coordinator	: Dr. T. Rushi Naidu, Assistant Professor
Dates	: 22-03-2021 to 27-03-2021
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/Pharm. D/2020/03

## Objectives:

- Understanding Carbohydrate Structures
- Identification and Isolation
- Characterization Techniques
- Biological Activity Assessment
- Mechanistic Insights
- Formulation and Delivery Systems
- Safety and Toxicology Studies
- Preclinical and Clinical Exploration
- Commercialization Strategies
- Integration with Traditional Medicine

## Outcomes:

- Comprehensive Knowledge
- Laboratory Skills
- Analytical Proficiency
- Bioactivity Assessment
- Mechanistic Understanding
- Formulation Expertise
- Safety Assessment
- Clinical Trial Competence
- Commercialization Knowledge
- Cultural and Traditional Integration
- Effective Communication



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## Syllabus

### 1. Introduction to Carbohydrates and Botanical Sources

- Overview of carbohydrates: types, structures, and functions
- Importance of carbohydrates in plants
- Botanical sources of carbohydrates
- Methods for extraction and isolation of plant carbohydrates

### 2. Identification and Characterization Techniques

- Spectroscopic techniques (NMR, IR, MS) for carbohydrate analysis
- Chromatographic methods for separation and purification
- Structural elucidation of plant-derived carbohydrates

### 3. Biological Activities of Plant-Derived Carbohydrates

- Anti-inflammatory properties
- Antioxidant activities
- Antimicrobial effects
- Other bioactive properties

### 4. Mechanistic Studies and Cellular Interactions

- Mechanisms of action of plant-derived carbohydrates
- Cellular and molecular interactions
- Signaling pathways influenced by these compounds

### 5. Formulation and Delivery Systems

- Formulation strategies for plant-derived carbohydrates
- Enhancement of bioavailability
- Drug delivery systems for therapeutic applications

### 6. Safety and Toxicology Studies

- Safety assessment of plant-derived carbohydrates
- Toxicological considerations
- Regulatory aspects and compliance

*Ahi*

Course Coordinator

*V. Uma Sankar*  
HOD



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ESTD : 2005

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## TIMETABLE

### CLASS: II PHARM. D

DAY/TIME	9:30-11:10	11:10-11:20	11:20 – 12:00	12:10 - 1:00	1:00-1:50	1:50-2:40	2:40 - 2.50	2:50 - 3:30	3:30 - 4:20.
MON	Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials	Break	Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials	Lunch	Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials	Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials	Break	Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials	Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials
TUE									
WED									
THU									
FRI									
SAT									

Course Coordinator

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Reference Book: "Indian Medicinal Plants: An Illustrated Dictionary" by C.P. Khare

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (4hrs)	Topics
1.	Week-1	22-03-2021	6hrs	<b>1. Introduction to Carbohydrates and Botanical Sources</b> <ul style="list-style-type: none"><li>• Overview of carbohydrates: types, structures, and functions</li><li>• Importance of carbohydrates in plants</li><li>• Botanical sources of carbohydrates</li><li>• Methods for extraction and isolation of plant carbohydrates</li></ul>
2.		23-03-2021	6hrs	<b>2. Identification and Characterization Techniques</b> <ul style="list-style-type: none"><li>• Spectroscopic techniques (NMR, IR, MS) for carbohydrate analysis</li><li>• Chromatographic methods for separation and purification</li><li>• Structural elucidation of plant-derived carbohydrates</li></ul>
3.		24-03-2021	6hrs	<b>3. Biological Activities of Plant-Derived Carbohydrates</b> <ul style="list-style-type: none"><li>• Anti-inflammatory properties</li><li>• Antioxidant activities</li><li>• Antimicrobial effects</li><li>• Other bioactive properties</li></ul>
4.		25-03-2021	6hrs	<b>4. Mechanistic Studies and Cellular Interactions</b> <ul style="list-style-type: none"><li>• Mechanisms of action of plant-derived carbohydrates</li><li>• Cellular and molecular interactions</li><li>• Signalling pathways influenced by these compounds</li></ul>



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5.		26-03-2021	6hrs	<b>5. Formulation and Delivery Systems</b> <ul style="list-style-type: none"><li>• Formulation strategies for plant-derived carbohydrates</li><li>• Enhancement of bioavailability</li><li>• Drug delivery systems for therapeutic applications</li></ul>
6.		27-03-2021	6hrs	<b>6. Safety and Toxicology Studies</b> <ul style="list-style-type: none"><li>• Safety assessment of plant-derived carbohydrates</li><li>• Toxicological considerations</li><li>• Regulatory aspects and compliance</li></ul>

  
Course Coordinator

  
HOD

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Bhogapuram (M), Vizianagaram Dist



  
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## Assessment:

1. **What is the primary focus of exploring carbohydrates from botanical sources in the context of therapeutics?**
  - a. Flavor enhancement
  - b. Structural engineering
  - c. Medicinal applications
  - d. Textile manufacturing
2. **Which spectroscopic technique is commonly used for the structural elucidation of plant-derived carbohydrates?**
  - a. UV-Vis spectroscopy
  - b. Infrared spectroscopy (IR)
  - c. Nuclear Magnetic Resonance (NMR)
  - d. Mass spectrometry (MS)
3. **What is a key consideration in formulating plant-derived carbohydrates for therapeutic applications?**
  - a. Color enhancement
  - b. Odor masking
  - c. Bioavailability
  - d. Shelf life extension
4. **Which biological activity is often associated with antioxidants found in plant-derived carbohydrates?**
  - a. Pro-inflammatory response
  - b. Cell proliferation
  - c. Anti-inflammatory effect
  - d. Microbial growth stimulation
5. **What is the purpose of conducting safety and toxicology studies in the exploration of carbohydrates from botanical sources?**
  - a. To enhance flavor profiles
  - b. To determine potential adverse effects
  - c. To increase bioavailability
  - d. To expedite regulatory approval
6. **In the context of therapeutic potentials, what do preclinical studies aim to establish?**
  - a. Commercial viability
  - b. Biological activities
  - c. Patient preferences
  - d. Market competition



  
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7. **What is an essential step in the commercialization of botanical-based therapeutics?**
  - a. Increasing toxicity
  - b. Market integration
  - c. Regulatory avoidance
  - d. Reducing bioavailability
8. **What role does public awareness play in the exploration of carbohydrates from botanical sources?**
  - a. Marketing strategy
  - b. Regulatory compliance
  - c. Education and communication
  - d. Product shelf life
9. **Which aspect of traditional medicine is validated in the exploration of plant-derived carbohydrates?**
  - a. Herbal remedies for cosmetic purposes
  - b. Culinary uses of botanicals
  - c. Medicinal practices involving plant-derived compounds
  - d. Traditional clothing production techniques
10. **Why is understanding the cellular and molecular mechanisms of action important in exploring plant-derived carbohydrates for therapeutic use?**
  - a. To enhance color stability
  - b. To expedite clinical trials
  - c. To tailor formulations
  - d. To gain insights into their pharmacological effects

Course Coordinator

HOD

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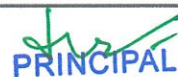
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Date : 04-02-2019 to 09-02-2019  
No. of Students Enrolled : 26  
Subject : Exploration of Carbohydrates from Botanical sources to  
Therapeutic Potentials II Pharm .D

S.NO.	ROLL NO.	STUDENT NAME
1	19T51T0001	Alajingi Susmita
2	19T51T0002	Boddepalli Rakesh
3	19T51T0003	Boni Tabitha Smily
4	19T51T0004	Chadaram Pragnatha
5	19T51T0005	Chappa Ramya
6	19T51T0006	Cherukuri Tanuja Lakshmi
7	19T51T0007	Chitiki Reddi Bhagyasri
8	19T51T0008	Doll Glenda Annette
9	19T51T0009	Karukola Anusha
10	19T51T0010	Kosuru Chandini
11	19T51T0011	Margana Gasruthi
12	19T51T0012	Ushasri Kanumula
13	19T51T0013	Pathivada Divya
14	19T51T0014	Pentakota Prasanna
15	19T51T0015	Anwesh Deep Padhy
16	19T51T0016	Rupiti Harshavardhini
17	19T51T0017	Sonika Shruti Sripathi
18	19T51T0018	Killo Ramakrishna

  
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19	19T51T0019	Sripada Venkata Sri Alekhya
20	19T51T0020	Tentu Sharmila
21	19T51T0021	Vaddadi Madhuri Smith
22	19T51T0022	Vanapalli Sandhya Rani
23	19T51T0023	Vantaku Syam Kumar
24	19T51T0024	Pilla Sai Sushmitha
25	19T51T0025	Kada Priyanka Gowthami Purna Ardhini
26	19T51T0026	Dussi Shakina
27	19T51T0027	Karrothu Syamala

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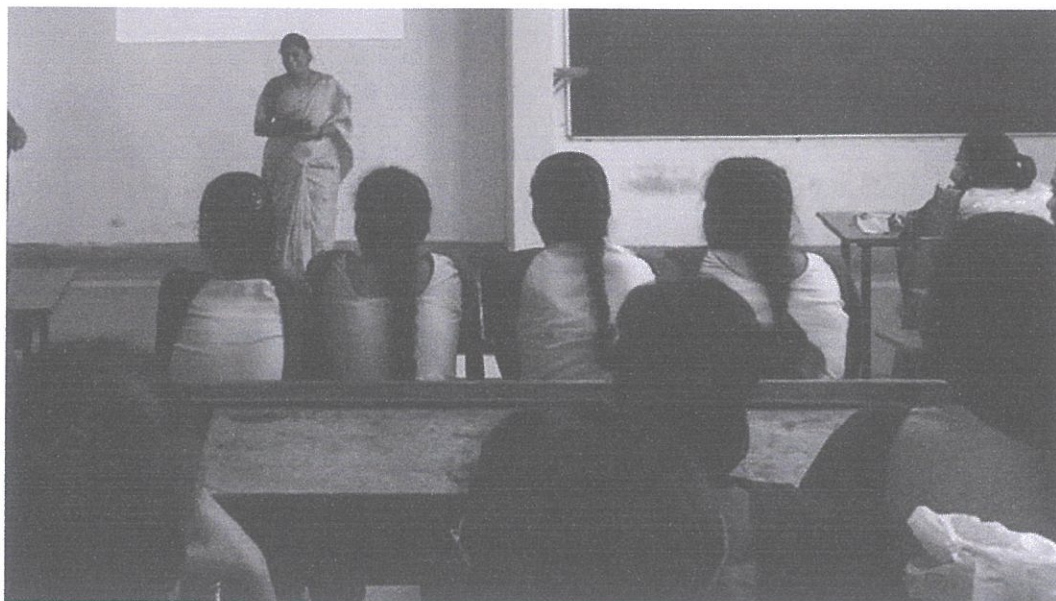
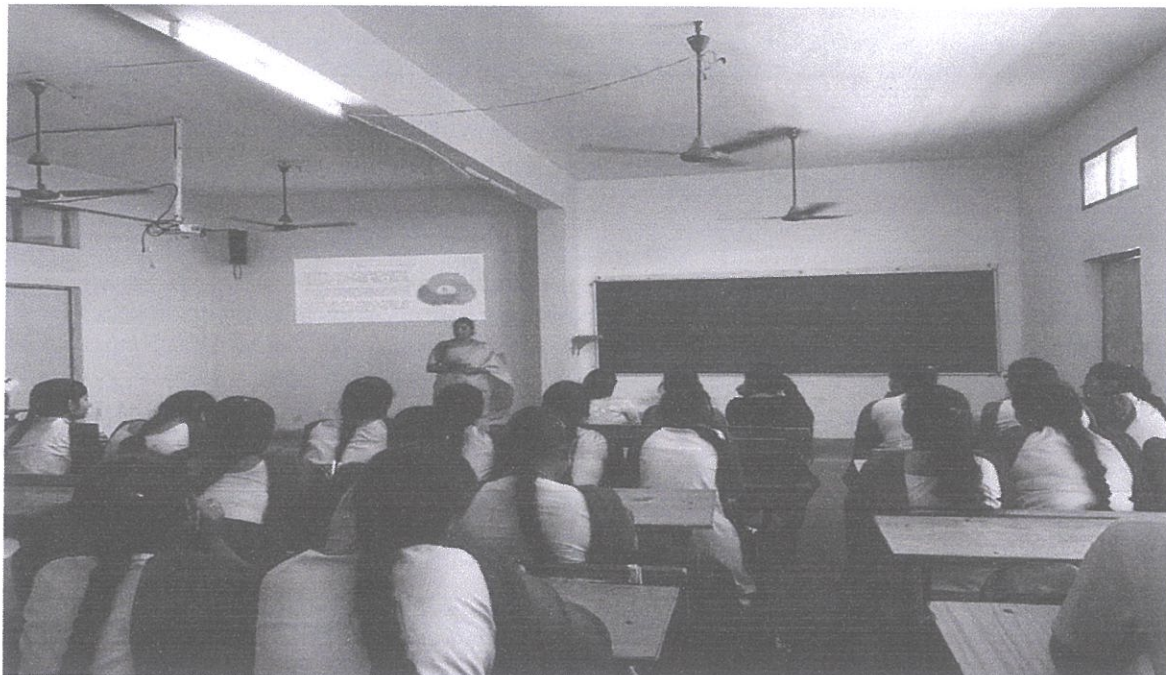


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The students of 2<sup>nd</sup> Pharm D certificate program attending “ **EXPLORATION OF CARBOHYDRATES FROM BOTANICAL SOURCES TO THERAPEUTIC POTENTIALS**” by Mrs. k Swathi Priya, Associate Professor, Srinivasa College of Pharmacy, PM Palem, Visakhapatnam.



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Date : 22-03-2021 to 27-03-2021

Subject : Exploration of Carbohydrates from Botanical sources to Therapeutic Potentials  
II Pharm. D

S. No	Roll No.	Student Name	22/03/21	23/03/21	24/03/21	25/03/21	26/03/21	27/03/21
1	19T51T0001	Alajingi Susmita	✓	✓	✓	✓	✓	✓
2	19T51T0002	Boddepalli Rakesh	✓	✓	✓	✓	✓	✓
3	19T51T0003	Boni Tabitha Smily	A	A	A	A	A	A
4	19T51T0004	Chadaram Pragnatha	✓	✓	✓	✓	✓	✓
5	19T51T0005	Chappa Ramya	✓	A	✓	✓	✓	✓
6	19T51T0006	Cherukuri Tanuja Lakshmi	✓	✓	✓	✓	A	✓
7	19T51T0007	ChitikiReddi Bhagyasri	✓	✓	✓	✓	✓	✓
8	19T51T0008	Doll Glenda Annette	✓	A	✓	✓	✓	✓
9	19T51T0009	Karukola Anusha	✓	✓	✓	✓	✓	A
10	19T51T0010	Kosuru Chandini	✓	A	✓	✓	✓	✓
11	19T51T0011	Margana Gasruthi	✓	✓	✓	✓	✓	✓
12	19T51T0012	Ushasri Kanumula	A	✓	✓	✓	✓	✓
13	19T51T0013	Pathivada Divya	✓	✓	✓	A	✓	✓
14	19T51T0014	Pentakota Prasanna	A	✓	✓	✓	✓	✓
15	19T51T0015	Anwesh Deep Padhy	✓	✓	✓	✓	✓	✓
16	19T51T0016	Rupiti Harshavardhini	A	✓	✓	✓	✓	✓
17	19T51T0017	Sonika Shruti Sripathi	✓	✓	✓	A	✓	✓
18	19T51T0018	Killo Ramakrishna	✓	A	✓	✓	✓	✓

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19	19T51T0019	SripadaVenkata Sri Alekhya	A	A	A	A	A	A
20	19T51T0020	Tentu Sharmila	✓	✓	✓	✓	✓	✓
21	19T51T0021	Vaddadi Madhuri Smith	✓	✓	✓	✓	✓	✓
22	19T51T0022	Vanapalli Sandhya Rani	✓	✓	✓	A	✓	✓
23	19T51T0023	Vantaku Syam Kumar	✓	A	✓	✓	✓	✓
24	19T51T0024	Pilla Sai Sushmitha	✓	✓	✓	✓	✓	✓
25	19T51T0027	KarrothuSyamala	✓	✓	✓	✓	A	✓

Course Coordinator

HOD

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No. of Students Enrolled : 27  
Subject : Exploration of Carbohydrates from Botanical sources to  
Therapeutic Potentials II Pharm. D

S. NO	ROLL NO.	STUDENT NAME	No. of classes attended	% of classes attended
1	19T51T0001	Alajingi Susmita	36	100%
2	19T51T0002	Boddepalli Rakesh	36	100%
3	19T51T0003	Boni Tabitha Smily	Nil	0%
4	19T51T0004	Chadaram Pragnatha	36	100%
5	19T51T0005	Chappa Ramya	30	83%
6	19T51T0006	Cherukuri Tanuja Lakshmi	30	83%
7	19T51T0007	Chitiki Reddi Bhagyasri	36	100%
8	19T51T0008	Doll Glenda Annette	30	83%
9	19T51T0009	Karukola Anusha	30	83%
10	19T51T0010	Kosuru Chandini	30	83%
11	19T51T0011	Margana Gasruthi	36	100%
12	19T51T0012	Ushasri Kanumula	30	83%
13	19T51T0013	Pathivada Divya	30	83%
14	19T51T0014	Pentakota Prasanna	30	83%
15	19T51T0015	Anwesh Deep Padhy	36	100%
16	19T51T0016	Rupiti Harshavardhini	30	83%
17	19T51T0017	Sonika Shruti Sripathi	30	83%



*[Signature]*  
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18	19T51T0018	Killo Ramakrishna	30	83%
19	19T51T0019	Sripada Venkata Sri Alekhya	Nil	0%
20	19T51T0020	Tentu Sharmila	36	100%
21	19T51T0021	Vaddadi Madhuri Smith	36	100%
22	19T51T0022	Vanapalli Sandhya Rani	30	83%
23	19T51T0023	Vantaku Syam Kumar	30	83%
24	19T51T0024	Pilla Sai Sushmitha	36	100%
25	19T51T0025	Kada Priyanka Gowthami Purna Ardhini	Nil	0%
26	19T51T0026	Dussi Shakina	Nil	0%
27	19T51T0027	Karrothu Syamala	30	83%

  
Course Coordinator

  
HOD

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CHITTIVALASA S.A.O.  
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# CERTIFICATE

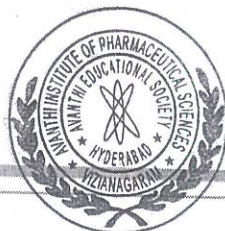
## OF PARTICIPATION

This certificate is proudly presented to

**USHASRI KANUMULA**

Bearing roll no. **19T51T0012** pursuing **II Pharm D** has successfully completed Value added Course on **"EXPLORATION OF CARBOHYDRATES FROM BOTANICAL SOURCES TO THERAPEUTIC POTENTIALS"** held from 22-03-2021 to 27-03-2021.

*V. Uma Sankar*  
Convener



*[Signature]*  
Principal  
Avanthi Institute of Pharmaceutical Sciences  
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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**SRIPADA VENKATA SRI ALEKHYA**

Bearing roll no. **19T51T0019** pursuing **II Pharm D** has successfully completed Value added Course on ***"EXPLORATION OF CARBOHYDRATES FROM BOTANICAL SOURCES TO THERAPEUTIC POTENTIALS"*** held from 22-03-2021 to 27-03-2021.

*V. Umashankar*  
Convener



*[Signature]*  
Principal  
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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**TENTU SHARMILA**

Bearing roll no. **19T51T0020** pursuing **II Pharm D** has successfully completed Value added Course on **"EXPLORATION OF CARBOHYDRATES FROM BOTANICAL SOURCES TO THERAPEUTIC POTENTIALS"** held from 22-03-2021 to 27-03-2021.

*V. Uma Sankar*

Convener



*[Signature]*  
Principal  
PRINCIPAL

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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**VADDADI MADHURI SMITH**

Bearing roll no. **19T51T0021** pursuing **II Pharm D** has successfully completed Value added Course on **"EXPLORATION OF CARBOHYDRATES FROM BOTANICAL SOURCES TO THERAPEUTIC POTENTIALS"** held from 22-03-2021 to 27-03-2021.

*V. Ilma Sankar*  
Convener



*[Signature]*  
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# CERTIFICATE

## OF PARTICIPATION

This certificate is proudly presented to

**KARROTHU SYAMALA**

Bearing roll no. **19T51T0027** pursuing **II Pharm D** has successfully completed Value added Course on **"EXPLORATION OF CARBOHYDRATES FROM BOTANICAL SOURCES TO THERAPEUTIC POTENTIALS"** held from 22-03-2021 to 27-03-2021.

*V. Anurankar*  
Convener



*[Signature]*  
Principal  
PRINCIPAL

Avanathi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531102



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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2020-21/09

Date: 26-03-2021

### CIRCULAR

This is to inform all the students of II M. Pharmacy that a value-added course will be conducted on the topic “Emerging Technology in Pharmaceutical Manufacturing and quality” from 05/04/2021 to 10/04/2021 interested students are required to sign-up for the above mentioned course with “**Dr. K. RAJ KIRAN**” Associate Professor in the Department of Pharmacy.



  
**Principal**  
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## Institution

Avanthi Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapuvalasa Bridge adjacent to NH-16. Students of Avanthi boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



## Organizing Committee

### Chief Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person

Dr. K. Raj Kiran,  
Professor, Principal



Sri Sivani College  
Of Pharmacy.

## Organizing Committee

Mrs. A.H.V. Santoshi, Associate  
Professor

Mrs. B. Chaitanya, Associate  
Professor

Dr. Vishnu Vandana, Associate  
Professor

## Members

All the faculty from the department  
of Pharmaceutical Sciences of the  
host institute



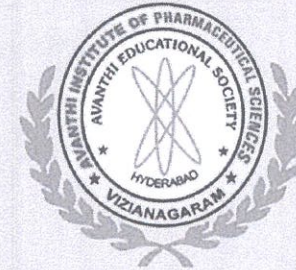
6 Days Workshop  
On

## Emerging Technologies in Pharmaceutical Manufacturing and Quality Assurance

05/04/2021 - 10/04/2021

Organized By:

DEPARTMENT OF  
PHARMACY



## AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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BHOGAPURAM MANDAL, VIZIANAGARAM

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Course Title	: Emerging Technology in Pharmaceutical Manufacturing and quality
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2020-21
Course Instructor	: Dr. K. Raj Kiran, Professor and Principal, Sri Sivani college of Pharmacy, Srikakulam
Course Coordinator	: Ms. Y. Vishnu Vandana, Associate Professor
Dates	:05-04-2021 to 10-04-2021
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/M. Pharm/2020/09


### Objectives:

- Efficiency and Cost Reduction
- Quality Assurance and Compliance
- Data Integrity and Management
- Personalized Medicine and Targeted Therapies
- Supply Chain Optimization
- Continuous Manufacturing
- Bioprocessing and Biopharmaceuticals
- Green Manufacturing and Sustainability

### Outcomes:

- Improved Efficiency and Speed
- Enhanced Quality Control
- Personalized Medicine
- Regulatory Compliance
- Supply Chain Visibility
- Flexible Manufacturing Systems



  
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## Syllabus

- 1. Introduction to Emerging Technologies in Pharmaceutical Manufacturing**
  - Overview of pharmaceutical manufacturing processes
  - Importance of emerging technologies in the pharmaceutical industry
  - Current challenges and opportunities in pharmaceutical manufacturing
- 2. Advanced Manufacturing Technologies**
  - Continuous manufacturing processes
  - Additive manufacturing (3D printing) in pharmaceuticals
  - Process analytical technology (PAT) and its applications
- 3. Quality by Design (QbD) in Pharmaceutical Manufacturing**
  - Principles of Quality by Design
  - QbD tools and methodologies
  - Risk assessment and mitigation in pharmaceutical manufacturing
- 4. Advanced Analytical Techniques for Quality Control**
  - Introduction to advanced analytical techniques (e.g., mass spectrometry, NMR)
  - Application of spectroscopic techniques in quality control
  - Role of chromatography in pharmaceutical analysis
- 5. Digitalization and Industry 4.0 in Pharmaceuticals**
  - Overview of Industry 4.0 in pharmaceutical manufacturing
  - Role of IoT (Internet of Things) in pharmaceuticals
  - Data integrity and cybersecurity considerations
- 6. Regulatory Compliance and Guidelines**
  - Current Good Manufacturing Practices (cGMP) in the context of emerging technologies
  - Regulatory considerations for implementing new technologies
  - Case studies on successful regulatory approvals

*M. V. Vaidane*  
Course Coordinator

*V. UmaSankar*  
HOD



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## TIMETABLE

### CLASS: II M. PHARMACY (Pharmaceutical Analysis)

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Emerging Technology in Pharmaceutical Manufacturing and quality	Break	Emerging Technology in Pharmaceutical Manufacturing and quality	Lunch	Emerging Technology in Pharmaceutical Manufacturing and quality	Emerging Technology in Pharmaceutical Manufacturing and quality	Break	Emerging Technology in Pharmaceutical Manufacturing and quality	Emerging Technology in Pharmaceutical Manufacturing and quality
TUE									
WED									
THU									
FRI									
SAT									

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Emerging Technology in Pharmaceutical Manufacturing and quality	Break	Emerging Technology in Pharmaceutical Manufacturing and quality	Lunch	Emerging Technology in Pharmaceutical Manufacturing and quality	Emerging Technology in Pharmaceutical Manufacturing and quality	Break	Emerging Technology in Pharmaceutical Manufacturing and quality	Emerging Technology in Pharmaceutical Manufacturing and quality
TUE									
WED									
THU									
FRI									



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SAT									
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## CLASS: II M. PHARMACY (Pharmacology)

## CLASS: M. PHARMACY (Pharmaceutics)

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20
MON	Emerging Technology in Pharmaceutical Manufacturing and quality	Break	Emerging Technology in Pharmaceutical Manufacturing and quality	Lunch	Emerging Technology in Pharmaceutical Manufacturing and quality	Emerging Technology in Pharmaceutical Manufacturing and quality	Break	Emerging Technology in Pharmaceutical Manufacturing and quality	Emerging Technology in Pharmaceutical Manufacturing and quality
TUE									
WED									
THU									
FRI									
SAT									

*Y.V. Vaidana*  
Course Coordinator

*V. UmaSankar*  
HOD

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Reference Book: "Pharmaceutical Manufacturing Handbook: Production and Processes" by  
Shayne Cox Gad

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	21-03-2022	6hrs	<b>1. Introduction to Emerging Technologies in Pharmaceutical Manufacturing</b> <ul style="list-style-type: none"><li>• Overview of pharmaceutical manufacturing processes</li><li>• Importance of emerging technologies in the pharmaceutical industry</li><li>• Current challenges and opportunities in pharmaceutical manufacturing</li></ul>
2.		22-03-2022	6hrs	<b>2. Advanced Manufacturing Technologies</b> <ul style="list-style-type: none"><li>• Continuous manufacturing processes</li><li>• Additive manufacturing (3D printing) in pharmaceuticals</li><li>• Process analytical technology (PAT) and its applications</li></ul>
3.		23-03-2022	6hrs	<b>3. Quality by Design (QbD) in Pharmaceutical Manufacturing</b> <ul style="list-style-type: none"><li>• Principles of Quality by Design</li><li>• QbD tools and methodologies</li><li>• Risk assessment and mitigation in pharmaceutical manufacturing</li></ul>
4.		24-03-2022	6hrs	<b>4. Advanced Analytical Techniques for Quality Control</b> <ul style="list-style-type: none"><li>• Introduction to advanced analytical techniques (e.g., mass spectrometry, NMR)</li><li>• Application of spectroscopic techniques in quality control</li></ul>



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				<ul style="list-style-type: none"><li>• Role of chromatography in pharmaceutical analysis</li></ul>
5.		25-03-2022	6hrs	<b>5. Digitalization and Industry 4.0 in Pharmaceuticals</b> <ul style="list-style-type: none"><li>• Overview of Industry 4.0 in pharmaceutical manufacturing</li><li>• Role of IoT (Internet of Things) in pharmaceuticals</li><li>• Data integrity and cybersecurity considerations</li></ul>
6.		26-03-2022	6hrs	<b>6. Regulatory Compliance and Guidelines</b> <ul style="list-style-type: none"><li>• Current Good Manufacturing Practices (cGMP) in the context of emerging technologies</li><li>• Regulatory considerations for implementing new technologies</li><li>• Case studies on successful regulatory approvals</li></ul>

*Y.V. Vandana*  
**Course Coordinator**

*V. Bhargava*  
**HOD**

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## Assessment:

1. **What is the primary purpose of implementing continuous manufacturing in pharmaceutical production?**
  - a. Cost reduction
  - b. B) Increased batch sizes
  - c. C) Improved product quality
  - d. D) Longer production timelines
2. **Which emerging technology is often used to enhance the precision and efficiency of pharmaceutical formulations?**
  - a. 3D Printing
  - b. B) Batch Manufacturing
  - c. C) Traditional Tablet Pressing
  - d. D) Manual Compounding
3. **What is the role of Process Analytical Technology (PAT) in pharmaceutical manufacturing?**
  - a. Increase production speed
  - b. Monitor and control processes in real-time
  - c. Reduce raw material costs
  - d. Minimize regulatory compliance
4. **Which technology enables the production of personalized medicines tailored to individual patient needs?**
  - a. Continuous Manufacturing
  - b. Nanotechnology
  - c. Pharmacogenomics
  - d. Virtual Reality
5. **What is the primary advantage of implementing block chain technology in pharmaceutical supply chains?**
  - a. Faster production cycles
  - b. Enhanced traceability and transparency
  - c. Reduced manufacturing costs
  - d. Improved product taste
6. **Which of the following is an application of Artificial Intelligence (AI) in pharmaceutical quality control?**
  - a. Automated drug discovery
  - b. Physical inspections of products
  - c. Manual data entry
  - d. Paper-based documentation



  
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7. **What role does Augmented Reality (AR) play in pharmaceutical manufacturing?**
  - a. Enhancing employee training
  - b. Accelerating batch processing
  - c. Reducing regulatory oversight
  - d. Minimizing quality control checks
8. **Which technology is commonly used for cold chain monitoring to ensure the stability of temperature-sensitive pharmaceuticals during transportation?**
  - a. IOT (Internet of Things)
  - b. Virtual Reality (VR)
  - c. 3D Printing
  - d. Block chain
9. **What is the purpose of implementing Real-Time Release Testing (RTRT) in pharmaceutical manufacturing?**
  - a. Post-production inspections
  - b. Reducing production costs
  - c. Ensuring product quality without delays
  - d. Longer shelf life for products
10. **How does the utilization of robotics in pharmaceutical manufacturing contribute to quality improvement?**
  - a. Speeding up production cycles
  - b. Reducing human errors
  - c. Increasing batch sizes
  - d. Eliminating the need for regulatory compliance

*Y.V. Vandana*  
Course Coordinator

*V. Uma Shankar*  
HOD

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Date : 05-04-2021 to 10-04-2021  
No. of Students Enrolled 16  
Subject Emerging Technology in Pharmaceutical Manufacturing and quality  
II M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name
1	19T51S1601	Bandapu Anusha
2	19T51S1602	Menda Roja
3	19T51S1603	Sabbavarapu Parvathi
4	19T51S1604	Kadiyam Sowjanya
5	19T51S1605	Chintagunti Sai Lavanya
6	19T51S1606	Sayyad Ashiya Parveen
7	19T51S1607	Chelli Bhagya Lakshmi
8	19T51S1608	Dusi Sudheer Kumar
9	19T51S1609	G Hemanta Sai
10	19T51S1610	Gadiraju Harika Sai Sudha
11	19T51S1611	Gantana Chandramouli
12	19T51S1612	K Md Afroz Ahmed
13	19T51S1613	Kona Sandya
14	19T51S1614	Nakka Atchyuta Anupama
15	19T51S1615	Pallanti Venkata Lakshmi Lavanya Durga Bhavani
16	19T51S1616	Pilli Pushapanjali

*Y. V. Vandana*  
Course Coordinator

*V. Uma Sankar*  
HOD



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Date : 05-04-2021 to 10-04-2021  
No. of Students Enrolled 12  
Subject : Emerging Technology in Pharmaceutical Manufacturing and quality  
II M. Pharmacy (Pharmacology)

S. No	Roll No.	Student Name
1	19T51S0601	Kandi Dharani Kranthi
2	19T51S0602	Kudurella Sri Mounika
3	19T51S0603	Lankalapalli Harshasree
4	19T51S0604	Matta Ramalakshmi
5	19T51S0605	Palla Harika
6	19T51S0606	Polaki Mounika
7	19T51S0607	Reshmi Afreen
8	19T51S0608	Rohit Godia
9	19T51S0609	Sirasapalli Pavani
10	19T51S0610	Suvvari Santhoshi
11	19T51S0611	Vijmireddy Gowthami
12	19T51S0612	Vittat Navya

*Y. V. Vandana*  
**Course Coordinator**

*V. Uma Sankar*  
**HOD**

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Date : 05-04-2021 to 10-04-2021  
No. of Students Enrolled 16  
Subject : Emerging Technology in Pharmaceutical Manufacturing and quality I M. Pharmacy (Pharmaceutics)

S. No	Roll No.	Student Name
1	19T51S0301	Bali Varshini
2	19T51S0302	Bandaru Durga Spandana
3	19T51S0303	Bukkuru Sravani
4	19T51S0304	Gudla Usha Rani
5	19T51S0305	Kedarisetty Sahithi Sampadha
6	19T51S0306	Lankapalli Daniel
7	19T51S0307	Maddibhatla Venkata Gayathri
8	19T51S0308	Mathe Divyavani
9	19T51S0309	Nammi Sirisha
10	19T51S0310	P Maneesha Laxmi
11	19T51S0311	Pragada Vinay
12	19T51S0312	Pranitha Panda
13	19T51S0313	S Deepthi
14	19T51S0314	Thatipudi Bhargavi
15	19T51S0315	Turupada Sunandhini
16	19T51S0316	Vennela Lavanya

*Y.V. Vandana*  
Course Coordinator

*[Signature]*  
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*V. Uma Sankar*  
HOD

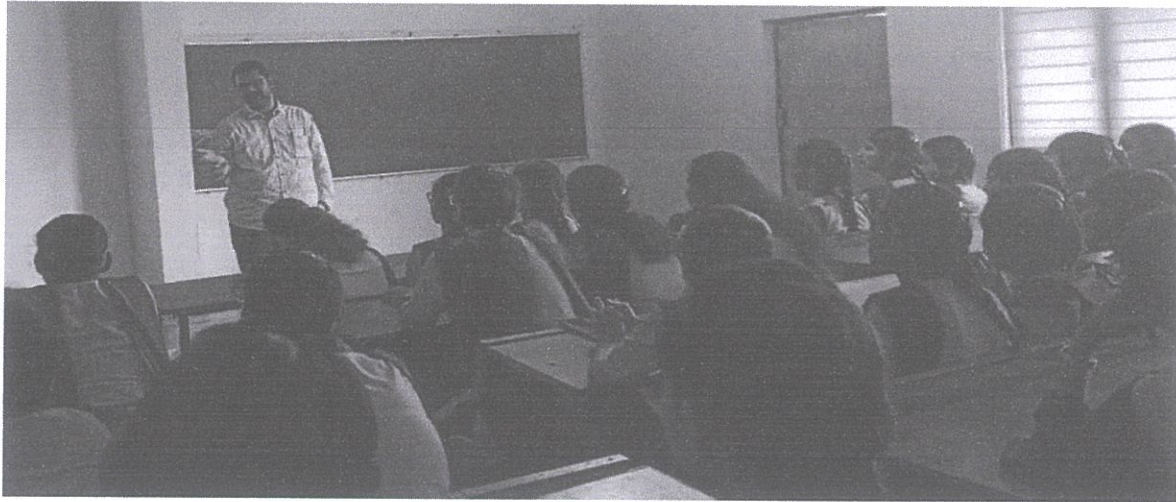


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The students of 2<sup>nd</sup> year M. Pharmacy certificate program attending “EMERGING TECHNOLOGY IN PHARMACEUTICAL MANUFACTURING AND QUALITY” by Dr. K. Raj Kiran, Professor and Principal, Sri Sivani college of Pharmacy, Srikakulam

*Y.V. Vandana*  
**Course Coordinator**

*V. Uma Sankar*  
**HOD**

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Date : 05-04-2021 to 10-04-2021

Subject : "Emerging Technology in Pharmaceutical Manufacturing and quality  
II M. Pharmacy (Pharmacology)

S. No	Roll No.	Student Name	5/04/21	6/04/21	7/04/21	8/04/21	9/04/21	10/04/21
1	19T51S0601	Kandi Dharani Kranthi	✓	✓	✓	✓	✓	✓
2	19T51S0602	Kudurella Sri Mounika	✓	A	✓	✓	✓	✓
3	19T51S0603	Lankalapalli Harshasree	A	✓	✓	✓	✓	✓
4	19T51S0604	Matta Rama lakshmi	✓	✓	✓	✓	✓	A
5	19T51S0605	Palla Harika	✓	✓	✓	✓	✓	✓
6	19T51S0606	Polaki Mounika	✓	A	✓	✓	✓	✓
7	19T51S0607	Reshmi Afreen	✓	✓	✓	✓	✓	✓
8	19T51S0608	Rohit Godia	✓	✓	A	✓	✓	✓
9	19T51S0609	Sirasapalli Pavani	✓	✓	✓	✓	✓	A
10	19T51S0610	Suvvari Santhoshi	✓	✓	✓	A	✓	✓
11	19T51S0611	Vijmireddy Gowthami	✓	✓	✓	✓	✓	✓
12	19T51S0612	Vittat Navya	✓	✓	✓	✓	✓	✓

*Y.V. Vandana*  
Course Coordinator

*N. Neelima*  
HOD

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Date : 05-04-2021 to 10-04-2021

Subject : "Emerging Technology in Pharmaceutical Manufacturing and quality"  
II M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name	5/04/21	6/04/21	7/04/21	8/04/21	9/04/21	10/04/21
1	19T51S1601	Bandapu Anusha	✓	✓	✓	✓	✓	✓
2	19T51S1602	Menda Roja	✓	A	A	A	A	A
3	19T51S1603	Sabbavarapu Parvathi	✓	✓	✓	✓	✓	✓
4	19T51S1604	Kadiyam Sowjanya	✓	✓	✓	✓	✓	✓
5	19T51S1605	Chintagunti Sai Lavanya	✓	✓	✓	A	✓	✓
6	19T51S1606	Sayyad AshiyaParveen	✓	✓	✓	✓	✓	✓
7	19T51S1607	Chelli Bhagya Lakshmi	✓	✓	✓	✓	✓	✓
8	19T51S1608	Dusi Sudheer Kumar	✓	✓	A	✓	✓	A
9	19T51S1609	G Hemanta Sai	A	✓	✓	✓	✓	✓
10	19T51S1610	Gadiraju Harika Sai Sudha	✓	✓	✓	✓	✓	✓
11	19T51S1611	Gantana Chandramouli	✓	✓	✓	A	✓	✓
12	19T51S1612	K MdAfroz Ahmed	✓	✓	✓	✓	✓	✓
13	19T51S1613	Kona Sandya	✓	✓	A	✓	✓	✓
14	19T51S1614	Nakka Atchyuta Anupama	✓	✓	✓	✓	✓	✓
15	19T51S1615	Pallanti Venkata Lakshmi Lavanya Durga Bhavani	✓	✓	✓	✓	✓	✓
16	19T51S1616	Pilli Pushapanjali	✓	✓	✓	✓	A	✓

*Y.V. Vandana*  
Course Coordinator

*N. Deekina*  
HOD

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Date : 05-04-2021 to 10-04-2021

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II M. Pharmacy (Pharmaceutics)

S. No	Roll No.	Student Name	5/04/21	6/04/21	7/04/21	8/04/21	9/04/21	10/04/21
1	19T51S0301	Bali Varshini	✓	✓	✓	✓	✓	✓
2	19T51S0302	Bandaru Durga Spandana	✓	✓	A	✓	A	✓
3	19T51S0303	Bukkuru Sravani	✓	✓	✓	✓	✓	✓
4	19T51S0304	Gudla Usha Rani	✓	✓	✓	✓	✓	✓
5	19T51S0305	Kedarisetty Sahithi Sampadha	✓	A	✓	✓	✓	✓
6	19T51S0306	Lankapalli Daniel	✓	✓	✓	✓	A	✓
7	19T51S0307	Maddibhatla Venkata Gayathri	✓	✓	✓	✓	✓	✓
8	19T51S0308	Mathe Divyavani	✓	✓	✓	✓	✓	✓
9	19T51S0309	Nammi Sirisha	✓	✓	A	✓	✓	✓
10	19T51S0310	P Maneesha Laxmi	A	✓	✓	✓	✓	✓
11	19T51S0311	Pragada Vinay	✓	✓	✓	✓	✓	✓
12	19T51S0312	Pranitha Panda	A	A	A	A	A	A
13	19T51S0313	S Deepthi	✓	✓	✓	A	A	✓
14	19T51S0314	Thatipudi Bhargavi	✓	✓	✓	A	A	✓
15	19T51S0315	Turupada Sunandhini	✓	✓	✓	✓	✓	✓
16	19T51S0316	Vennela Lavanya	✓	✓	✓	✓	✓	✓

*Y.V. Vandana*  
Course Coordinator

*N. Neelima*  
HOD

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Date : 05-04-2021 to 10-04-2021  
No. of Students Enrolled 12  
Subject : Emerging Technology in Pharmaceutical Manufacturing and quality  
II M. Pharmacy (Pharmacology)

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	19T51S0601	Kandi Dharani Kranthi	36	100%
2	19T51S0602	Kudurella Sri Mounika	30	83%
3	19T51S0603	Lankalapalli Harshasree	30	83%
4	19T51S0604	Matta Ramalakshmi	30	83%
5	19T51S0605	Palla Harika	36	100%
6	19T51S0606	Polaki Mounika	30	83%
7	19T51S0607	Reshmi Afreen	36	100%
8	19T51S0608	Rohit Godia	30	83%
9	19T51S0609	Sirasapalli Pavani	30	83%
10	19T51S0610	Suvvari Santhoshi	30	83%
11	19T51S0611	Vijmireddy Gowthami	36	100%
12	19T51S0612	Vittat Navya	36	100%

*y.v.vandana*  
Course Coordinator

*V. Uma Sankar*  
HOD



*hs*  
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4	19T51S1604	Kadiyam Sowjanya	36	100%
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7	19T51S1607	Chelli Bhagya Lakshmi	36	100%
8	19T51S1608	Dusi Sudheer Kumar	24	66%
9	19T51S1609	G Hemanta Sai	30	83%
10	19T51S1610	Gadiraju Harika Sai Sudha	36	100%
11	19T51S1611	Gantana Chandramouli	30	83%
12	19T51S1612	K Md Afroz Ahmed	36	100%
13	19T51S1613	Kona Sandya	30	83%
14	19T51S1614	Nakka Atchyuta Anupama	36	100%
15	19T51S1615	Pallanti Venkata Lakshmi Lavanya Durga Bhavani	36	100%
16	19T51S1616	Pilli Pushapanjali	30	83%

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*V. Uma Shankar*  
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11	19T51S0311	Pragada Vinay	36	100%
12	19T51S0312	Pranitha Panda	Nil	0%
13	19T51S0313	S Deepthi	24	66%
14	19T51S0314	Thatipudi Bhargavi	24	66%
15	19T51S0315	Turupada Sunandhini	36	100%
16	19T51S0316	Vennela Lavanya	36	100%

*Y.V. Vandana*  
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## CERTIFICATE

OF ACHIEVEMENT

This certificate is proudly presented to

**RESHMI AFREEN**

Bearing roll no 19T51S0607 pursuing II M Pharmacy has successfully completed value added course on

“Emerging technologies in pharmaceutical manufacturing and quality assurance”  
held from 05-04-2021 to 10-04-2021

*V. Umabankar*  
Convener



*[Signature]*  
Principal  
PRINCIPAL

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## CERTIFICATE

OF ACHIEVEMENT

This certificate is proudly presented to

**ROHIT GODIA**

Bearing roll no 19T51S0608 pursuing II M Pharmacy has successfully completed value added course on

**“Emerging technologies in pharmaceutical manufacturing and quality assurance”**  
held from 05-04-2021 to 10-04-2021

*V. Uma Sankar*  
Conyener



*[Signature]*  
Principal

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## CERTIFICATE

OF ACHIEVEMENT

This certificate is proudly presented to

**SABBAVARAPU ANURADHA**

Bearing roll no 19T51S1110 pursuing II M Pharmacy has successfully completed value added course on

**“Emerging technologies in pharmaceutical manufacturing and quality assurance”**  
held from 05-04-2021 to 10-04-2021

*V. Umaankar*  
Convener



*[Signature]*  
Principal  
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## CERTIFICATE

OF ACHIEVEMENT

This certificate is proudly presented to

**MADDA JUNNU**

Bearing roll no 19T51S1105 pursuing II M Pharmacy has successfully completed value added course on

**“Emerging technologies in pharmaceutical manufacturing and quality assurance”**  
held from 05-04-2021 to 10-04-2021

*V. Uma Shankar*  
Convener



*[Signature]*  
Principal

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## CERTIFICATE

OF ACHIEVEMENT

This certificate is proudly presented to

**YELLAPU RENUKA PRATYUSHA**

Bearing roll no 19T51S1113 pursuing II M Pharmacy has successfully completed value added course on

**“Emerging technologies in pharmaceutical manufacturing and quality assurance”**  
held from 05-04-2021 to 10-04-2021

*V. Umashankar*  
Convener

*[Signature]*  
Principal  
PRINCIPAL

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## CERTIFICATE

OF ACHIEVEMENT

This certificate is proudly presented to

**BOGAPURAPU GAYATRI**

Bearing roll no 19T51S1102 pursuing II M Pharmacy has successfully completed value added course on

**“Emerging technologies in pharmaceutical manufacturing and quality assurance”**  
held from 05-04-2021 to 10-04-2021

*V. Unnankar*  
Convenor



*[Signature]*  
Principal

Avanathi Institute of Pharmaceutical Sciences  
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OF ACHIEVEMENT

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**SUVVARI SANTHOSHI**

Bearing roll no 19T51S0610 pursuing II M Pharmacy has successfully completed value added course on

“Emerging technologies in pharmaceutical manufacturing and quality assurance”  
held from 05-04-2021 to 10-04-2021

*V. Uma Sankar*  
Convener



*[Signature]*  
Principal

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## CERTIFICATE

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This certificate is proudly presented to

**LANKALAPALLI HARSHASREE**

Bearing roll no 19T51S0603 pursuing II M Pharmacy has successfully completed value added course on

**“Emerging technologies in pharmaceutical manufacturing and quality assurance”**  
held from 05-04-2021 to 10-04-2021

*V. UmaSankar*  
Convener



*[Signature]*  
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## CERTIFICATE

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This certificate is proudly presented to

**YANDA PURNA NAGA VIJAYA LAKSHMI**

Bearing roll no 19T51S1112 pursuing II M Pharmacy has successfully completed value added course on

**“Emerging technologies in pharmaceutical manufacturing and quality assurance”**  
held from 05-04-2021 to 10-04-2021

*V. Uma Shankar*  
Convener



*[Signature]*  
Principal

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## CERTIFICATE

OF ACHIEVEMENT

This certificate is proudly presented to

**SOMULA VENKATA DURGA**

Bearing roll no 19T51S1111 pursuing II M Pharmacy has successfully completed value added course on

**“Emerging technologies in pharmaceutical manufacturing and quality assurance”**  
held from 05-04-2021 to 10-04-2021

*V. Umalankar*  
Convener



*[Signature]*  
Principal  
PRINCIPAL

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## DEPARTMENT OF PHARMACY


Ref no: AIPS/Pharmacy/2020-21/10

Date: 12-04-2021

### CIRCULAR

This is to inform all the students of I M. Pharmacy that a value-added course will be conducted on the topic “Pharmaceutical Marketing and Sale Strategies” from 19/04/2021 to 24/04/2021 interested students are required to sign-up for the above mentioned course with “**Mr. M. RAJESWAR RAO**” Associate Professor in the Department of Pharmacy.



  
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## Institution

Avanthi Institute of Pharmaceutical Sciences was established in the year 2005 with the approval of PCI, New Delhi and recognized by Government Andhra Pradesh. The Institution is permanently affiliated to JNTUK, Kakinada and is AICTE. The college is well equipped with state of art laboratories and equipment. The college is 25 km from Visakhapatnam and 15 km from Vizianagaram near Tagarapuvalasa Bridge adjacent to NH-16. Students of Avanthi boast of their excellent academic performance both at University level and GPAT with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like NIPER & BHU.

## Route Map



## Organizing Committee

### Cheif Patron

Smt. M.Gnaneshwari,  
Chairperson, AIPS

### Patron

Dr. M.B.V.Raju, Principal, AIPS

### Convener

V.Uma Sankar, Associate Professor

### Co-Convener

Mrs. B. Chaitanya, Associate  
Professor

### Resource Person



**Mr. M. Rajeshwara Rao,**  
Assistant Professor,  
Avanthi Institute of Pharmaceutical  
Sciences.

## Organizing Committee

M. Divya, Assistant Professor

M. Vasu, Assistant Professor

Vamsi Krishna Yadav, Assistant  
Professor

## Members

All the faculty from the department  
of Pharmaceutical Sciences of the  
host institute



## 6 Days Workshop

On

## Pharmaceutical Marketing and Sales Stratagies

19/04/2021 - 24/04/2021

Organized By:

DEPARTMENT OF  
PHARMACY



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Course Title	: Pharmaceutical Marketing and Sale Strategies
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2020-21
Course Instructure	: Mr. M. Rajeswar Rao, Assistant Professor, Avanathi Institute of Pharmaceutical Sciences, Vzinagaram
Course Coordinator	: Mrs. Y. Pavani Assistant Professor
Dates	: 19-04-2021 to 24-04-2021
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/M. Pharm/2020/10

## Objectives:

- Product Awareness and Education
- Market Share Expansion
- Relationship Building
- Compliance with Regulations
- Brand Positioning
- Market Research and Analysis
- Product Life Cycle Management

## Outcomes:

- Increased Sales and Revenue
- Market Share Growth
- Brand Awareness and Loyalty
- Regulatory Compliance
- Access to Key Opinion Leaders (KOLs)
- Patient Education and Adherence



  
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## Syllabus

### 1. Introduction to Pharmaceutical Marketing

- Overview of the pharmaceutical industry
- Regulatory framework and compliance (FDA regulations, ethical considerations)
- Key players in the pharmaceutical market (pharmaceutical companies, healthcare providers, payers)

### 2. Product Life Cycle in the Pharmaceutical Industry

- Introduction to the product life cycle concept
- Challenges and opportunities at each stage
- Case studies on successful and unsuccessful product launches

### 3. Market Research and Competitive Analysis

- Importance of market research in pharmaceutical marketing
- Techniques for analyzing competitors
- Utilizing market intelligence to inform marketing strategies

### 4. Branding and Positioning in Pharmaceuticals

- Building and managing pharmaceutical brands
- Positioning strategies in a competitive market
- Case studies on successful pharmaceutical branding

### 5. Digital Marketing in Pharmaceuticals

- Overview of digital marketing tools and channels
- Social media strategies for pharmaceutical companies
- Regulatory considerations in digital marketing

### 6. Sales Force Effectiveness

- Building and managing a pharmaceutical sales team
- Sales training and development
- Performance metrics and evaluation

*Y.A. Parvati*  
Course Coordinator

*N. Neelima*  
HOD



*[Signature]*  
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**TIMETABLE**

**CLASS: I M. PHARMACY (Pharmaceutical Analysis)**

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Pharmaceutical Marketing and Sale Strategies	Break	Pharmaceutical Marketing and Sale Strategies	Lunch	Pharmaceutical Marketing and Sale Strategies	Pharmaceutical Marketing and Sale Strategies	Break	Pharmaceutical Marketing and Sale Strategies	Pharmaceutical Marketing and Sale Strategies
TUE									
WED									
THU									
FRI									
SAT									

**CLASS: I M. PHARMACY (Pharmacology)**

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40-2:50	2:50-3:30	3:30-4:20.
MON	Pharmaceutical Marketing and Sale Strategies	Break	Pharmaceutical Marketing and Sale Strategies	Lunch	Pharmaceutical Marketing and Sale Strategies	Pharmaceutical Marketing and Sale Strategies	Break	Pharmaceutical Marketing and Sale Strategies	Pharmaceutical Marketing and Sale Strategies
TUE									
WED									
THU									
FRI									
SAT									



  
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**CLASS: I M. PHARMACY (Pharmaceutics)**

DAY/TIME	9:30-11:10	11:10-11:20	11:20-12:00	12:10-1:00	1:00-1:50	1:50-2:40	2:40 - 2:50	2:50 - 3:30	3:30 - 4:20.
MON	Pharmaceutical Marketing and Sale Strategies	Break	Pharmaceutical Marketing and Sale Strategies	Lunch	Pharmaceutical Marketing and Sale Strategies	Pharmaceutical Marketing and Sale Strategies	Break	Pharmaceutical Marketing and Sale Strategies	Pharmaceutical Marketing and Sale Strategies
TUE									
WED									
THU									
FRI									
SAT									

*M. Pavani*  
**Course Coordinator**

*N. Neelima*  
**HOD**

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Reference Book: "Pharmaceutical Marketing: Principles, Environment, and Practice" by Mickey C. Smith and Turan B. Kayihan

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	19-04-2021	6hrs	<b>1. Introduction to Pharmaceutical Marketing</b> <ul style="list-style-type: none"><li>• Overview of the pharmaceutical industry</li><li>• Regulatory framework and compliance (FDA regulations, ethical considerations)</li><li>• Key players in the pharmaceutical market (pharmaceutical companies, healthcare providers, payers)</li></ul>
2.		20-04-2021	6hrs	<b>2. Product Life Cycle in the Pharmaceutical Industry</b> <ul style="list-style-type: none"><li>• Introduction to the product life cycle concept</li><li>• Challenges and opportunities at each stage</li><li>• Case studies on successful and unsuccessful product launches</li></ul>
3.		21-04-2021	6hrs	<b>3. Market Research and Competitive Analysis</b> <ul style="list-style-type: none"><li>• Importance of market research in pharmaceutical marketing</li><li>• Techniques for analyzing competitors</li><li>• Utilizing market intelligence to inform marketing strategies</li></ul>
4.		22-04-2021	6hrs	<b>4. Branding and Positioning in Pharmaceuticals</b> <ul style="list-style-type: none"><li>• Building and managing pharmaceutical brands</li><li>• Positioning strategies in a competitive market</li></ul>



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				<ul style="list-style-type: none"><li>• Case studies on successful pharmaceutical branding</li></ul>
5.		23-04-2021	6hrs	<b>5. Digital Marketing in Pharmaceuticals</b> <ul style="list-style-type: none"><li>• Overview of digital marketing tools and channels</li><li>• Social media strategies for pharmaceutical companies</li><li>• Regulatory considerations in digital marketing</li></ul>
6.		24-04-2021	6hrs	<b>6. Sales Force Effectiveness</b> <ul style="list-style-type: none"><li>• Building and managing a pharmaceutical sales team</li><li>• Sales training and development</li><li>• Performance metrics and evaluation</li></ul>

*M. Parani*  
Course Coordinator

*N. N. Reddy*  
HOD

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## Assessment:

1. **What is the primary goal of pharmaceutical marketing?**
  - a. Increasing patient awareness
  - b. Maximizing shareholder profits
  - c. Educating healthcare professionals
  - d. Enhancing product quality
2. **Which of the following is a key component of the pharmaceutical sales process?**
  - a. Direct-to-consumer advertising
  - b. Clinical trials
  - c. Key opinion leader engagement
  - d. Manufacturing processes
3. **What is the purpose of a product launch strategy in pharmaceutical marketing?**
  - a. Establishing long-term brand loyalty
  - b. Generating initial market awareness and sales
  - c. Conducting post-market surveillance
  - d. Ensuring regulatory compliance
4. **Which channel is commonly used for communication between pharmaceutical companies and healthcare professionals?**
  - a. Social media
  - b. Television commercials
  - c. Sales representatives
  - d. Print advertisements
5. **What is the significance of market segmentation in pharmaceutical marketing?**
  - a. Targeting specific patient populations for personalized medicine
  - b. Expanding the overall market reach
  - c. Reducing production costs
  - d. Meeting regulatory requirements
6. **In the context of pharmaceutical sales, what does the term "formulary" refer to?**
  - a. Sales force organization
  - b. List of covered drugs by insurance plans
  - c. Advertising strategy
  - d. Clinical trial protocol
7. **What is the role of Key Opinion Leaders (KOLs) in pharmaceutical marketing?**
  - a. Conducting clinical trials
  - b. Advising on product development
  - c. Handling distribution logistics
  - d. Monitoring adverse events



  
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8. **Which regulatory body oversees the approval and marketing of pharmaceuticals in the United States?**
  - a. European Medicines Agency (EMA)
  - b. Food and Drug Administration (FDA)
  - c. Medicines and Healthcare products Regulatory Agency (MHRA)
  - d. World Health Organization (WHO)
9. **What is the purpose of post-marketing surveillance in pharmaceutical sales?**
  - a. Monitoring competitor activities
  - b. Identifying potential adverse effects
  - c. Managing supply chain logistics
  - d. Conducting market research
10. **What is the concept of "detailing" in pharmaceutical sales?**
  - a. Providing detailed information about drug manufacturing
  - b. Engaging in sales discussions with healthcare professionals
  - c. Conducting market research surveys
  - d. Implementing direct-to-consumer advertising campaigns

*M. Parvathi*  
Course Coordinator

*N. Neelima*  
HOD

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Date : 19-04-2021 to 24-04-2021  
No. of Students Enrolled : 16  
Subject : Pharmaceutical Marketing and Sale Strategies  
I M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name
1	20T51S1601	Bandapu Anusha
2	20T51S1602	Menda Roja
3	20T51S1603	Sabbavarapu Parvathi
4	20T51S1604	Kadiyam Sowjanya
5	20T51S1605	Chintagunti Sai Lavanya
6	20T51S1606	Sayyad Ashiya Parveen

*Y. Parvathi*  
Course Coordinator

*N. Neelima*  
HOD

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Date : 19-04-2021 to 24-04-2021  
No. of Students Enrolled : 12  
Subject : Pharmaceutical Marketing and Sale Strategies  
I M. Pharmacy (Pharmacology)

S. No	Roll No.	Student Name
1	20T51S0601	Kancharla Moulika
2	20T51S0602	Majji Guna Sundari
3	20T51S0603	Muminuz Zaman

*Y. Parani*  
Course Coordinator

*N. Neelina*  
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Date : 19-04-2021 to 24-04-2021  
No. of Students Enrolled : 16  
Subject : Pharmaceutical Marketing and Sale Strategies  
I M. Pharmacy (Pharmaceutics)

S. No	Roll No.	Student Name
1	20T51S0301	Ankamreddi Pavani
2	20T51S0302	Yendradla Hiranmai
3	20 T51S0303	Vutapalli Esther Rani
4	20T51S0304	Tadi Sankeerthana
5	20T51S0305	Korabu Maithili
6	20T51S0306	Neelapu Guna Prasanth

*Y. Parani*  
Course Coordinator

*N. Neelima*  
HOD

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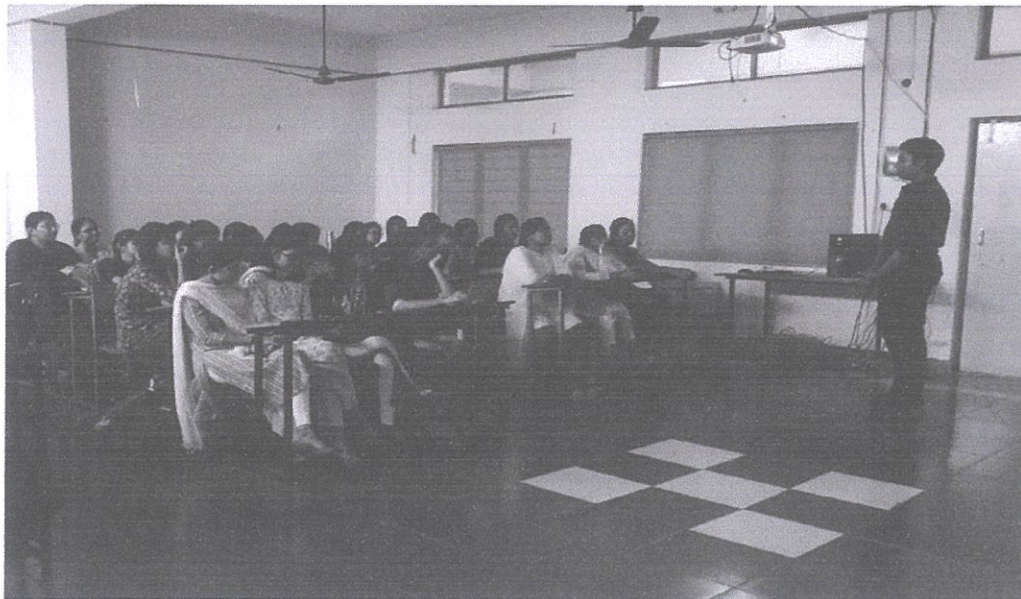


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The students of 1<sup>st</sup> year M. Pharmacy certificate program attending “**PHARMACEUTICAL MARKETING AND SALE STRATEGIES**” by the Associate Professor Mr. M. Rajeshwar Rao from

*Y. Parani*  
Course Coordinator

*N. Neelima*  
HOD



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Date : 19-04-2021 to 24-04-2021

Subject : "Pharmaceutical Marketing and Sale Strategies

I M. Pharmacy (Pharmacology)

S. No	Roll No.	Student Name	✓	✓	✓	✓	✓	✓
1	20T51S0601	Kancharla Moulika	✓	✓	✓	✓	✓	✓
2	20T51S0602	Majji Guna Sundari	✓	A	✓	✓	✓	✓
3	20T51S0603	Muminuz Zaman	A	A	A	A	A	A

*H. Pavani*  
Course Coordinator

*N. Neelina*  
HOD

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Date : 19-04-2021 to 24-04-2021

Subject : "Pharmaceutical Marketing and Sale Strategies"

I M. Pharmacy (Pharmaceutics)

S. No	Roll No.	Student Name	19/04/2021	20/04/2021	21/04/2021	22/04/2021	23/04/2021	24/04/2021
1	20T51S0301	AnkamreddiPavani	✓	✓	✓	✓	✓	A
2	20T51S0302	YendradlaHiranmai	✓	A	A	✓	✓	✓
3	20 T51S0303	Vutapalli Esther Rani	✓	✓	✓	✓	✓	✓
4	20T51S0304	TadiSankeerthana	A	A	A	A	A	A
5	20T51S0305	Korabu Maithili	✓	✓	✓	✓	✓	✓
6	20T51S0306	NeelapuGunaPrasanth	✓	A	✓	✓	✓	✓

*M. pavani*  
Course Coordinator

*N. Deelina*  
HOD

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Date : 19-04-2021 to 24-04-2021

Subject : "Pharmaceutical Marketing and Sale Strategies"  
I M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name	19/04/21	20/04/21	21/04/21	22/04/21	23/04/21	24/04/21
1	20T51S1601	Bandapu Anusha	✓	✓	✓	✓	✓	✓
2	20T51S1602	Menda Roja	✓	A	✓	✓	✓	✓
3	20T51S1603	Sabbavarapu Parvathi	✓	✓	✓	A	✓	✓
4	20T51S1604	Kadiyam Sowjanya	✓	A	✓	✓	✓	✓
5	20T51S1605	Chintagunti Sai Lavanya	✓	✓	✓	A	✓	✓
6	20T51S1606	Sayyad Ashiya Parveen	✓	✓	✓	✓	✓	✓

*M. pavani*  
Course Coordinator

*N. Neelima*  
HOD

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Date : 19-04-2021 to 24-04-2021  
No. of Students Enrolled : 12  
Subject : Pharmaceutical Marketing and Sale Strategies  
I M. Pharmacy (Pharmacology)

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	20T51S0601	Kancharla Moulika	36	100%
2	20T51S0602	Majji Guna Sundari	30	83%
3	20T51S0603	Muminuz Zaman	Nil	0%

*U. Pavani*  
Course Coordinator

*N. N. N. N.*  
HOD

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Date : 19-04-2021 to 24-04-2021  
No. of Students Enrolled : 16  
Subject : Pharmaceutical Marketing and Sale Strategies  
I M. Pharmacy (Pharmaceutics)

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	20T51S0301	Ankamreddi Pavani	30	83%
2	20T51S0302	Yendradla Hiranmai	24	66%
3	20 T51S0303	Vutapalli Esther Rani	36	100%
4	20T51S0304	Tadi Sankeerthana	Nil	0%
5	20T51S0305	Korabu Maithili	36	100%
6	20T51S0306	Neelapu Guna Prasanth	30	83%

*U. Pavani*  
Course Coordinator

*N. N. Srinivas*  
HOD

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Date : 19-04-2021 to 24-04-2021  
No. of Students Enrolled : 16  
Subject : Pharmaceutical Marketing and Sale Strategies  
I M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	20T51S1601	Bandapu Anusha	36	100%
2	20T51S1602	Menda Roja	30	83%
3	20T51S1603	Sabbavarapu Parvathi	30	83%
4	20T51S1604	Kadiyam Sowjanya	30	83%
5	20T51S1605	Chintagunti Sai Lavanya	30	83%
6	20T51S1606	Sayyad Ashiya Parveen	36	100%

*Y. Pavani*  
Course Coordinator

*N. Neelima*  
HOD

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## Certificate of completion

This is to certify that Mr/Mrs **MAJI GUNA SUNDARI**  
bearing roll no 20T51S0602 pursuing I M Pharmacy has successfully completed value  
added course on  
**“Pharmaceutical marketing and sales strategies”**  
held from 19-04-2021 to 24-04-2021

*V. Uma Sankar*

Convener



*[Signature]*

Principal

PRINCIPAL

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## Certificate of completion

This is to certify that Mr/Mrs **SAYYAD ASHIYA PARVEEN**  
bearing roll no: 20T51S1606 pursuing **I M Pharmacy** has successfully completed value  
added course on  
**“Pharmaceutical marketing and sales strategies”**  
held from 19-04-2021 to 24-04-2021

*V. Unnankar*

Convener



*[Signature]*

Principal

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Vizianagaram Dt., - 531162

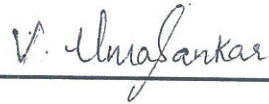


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## Certificate of completion

This is to certify that Mr/Mrs **SABBAVARAPU PARVATHI**  
bearing roll no 20T51S1603 pursuing **I M Pharmacy** has successfully completed value  
added course on  
**“Pharmaceutical marketing and sales strategies”**  
held from 19-04-2021 to 24-04-2021



Convener





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## Certificate of completion

This is to certify that Mr/Mrs **VUTAPALLI ESTHER RANI**  
bearing roll no 20 T51S0303 pursuing **I M Pharmacy** has successfully completed value  
added course on  
**“Pharmaceutical marketing and sales strategies”**  
held from 19-04-2021 to 24-04-2021

*V. Uma Sankar*

Convener



*[Signature]*

Principal

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