



ESTD : 2005

# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162.  
[www.avanthipharma.ac.in](http://www.avanthipharma.ac.in), [principal@avanthipharma.ac.in](mailto:principal@avanthipharma.ac.in)


1.2.2: Number of add on / certificate programs offered during academic year: 2019 - 2020.

1.2.2: Number of students enrolled in certificate / add on programs as against the total number of students during the year: 2019- 2020.

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## DEPARTMENT OF PHARMACY PRACTICE

Ref no: AIPS/Pharmacy Practice/2019-20/01

Date: 01-07-2019

### CIRCULAR

This is to inform all the students of VPharm. Dthat a value-added course will be conducted on the topic “Telemedicine and Virtual Pharmacy” from 08/07/2019 to 13/07/2019 Interested students are required to sign-up for the above mentioned course with “**Mr. A. NANAJI**” Assistant Professor in the Department of Pharmacy.



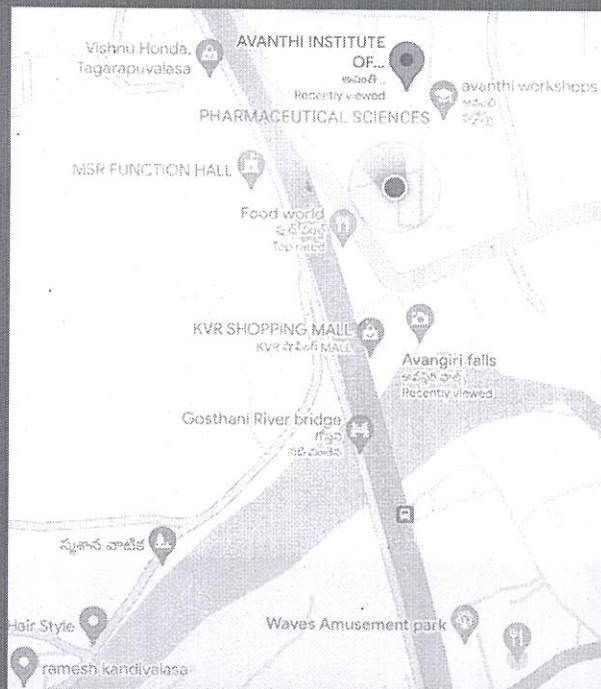
  
Principal

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Vizianagaram Dt., - 531162

## 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 Tagarapavalasa 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

Mr. A. Nanaji,  
Associate Professor,



Avanthy Institute of  
Pharmaceutical  
Sciences.

## Organizing Committee

Dr. Santhoshi Lakshmi, Assistant  
Professor

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

Dr. D. Subba S... Assistant Professor

## Members

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



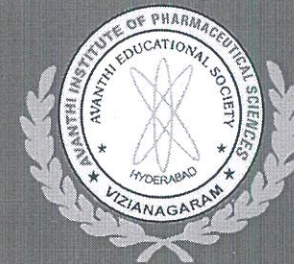
6 Days Workshop  
On

## Tele Medicine and Virtual Pharmacy

08/07/2019 - 13/07/2019

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)

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

Avanthy Institute of Pharmaceutical Sciences

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Course Title	: Telemedicine and virtual pharmacy
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course Instructor	: Mr. A Nanaji, Associate Professor, Avanthi Institute of Pharmaceutical Sciences, Cherukupalli, Vizianagaram
Course Coordinator	: Dr. D. Subha Sri, Assistant Professor
Dates	: 08-07-2019 to 13-07-2019
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/Pharm. D/2019/01</b>

## Objectives:

- telehealth technologies
- remote patient monitoring
- Virtual consultation
- Data security and privacy

## Outcomes:

- Ethical aspects.
- Virtual pharmacy operations
- Data security
- Privacy compliance



  
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## Syllabus

### 1. Introduction to Telemedicine and Virtual Pharmacy:

- Overview of Telemedicine and Virtual Pharmacy
- Historical development and evolution
- Types and models of telemedicine
- Legal and ethical considerations in telemedicine
- Regulatory frameworks and compliance

### 2. Telehealth Technologies and Platforms:

- Introduction to telehealth technologies
- Telehealth platforms and their features
- Choosing the right technology for telemedicine
- Hands-on training with telehealth platforms
- Best practices for virtual consultations

### 3. Remote Patient Monitoring and Wearable Devices:

- Concept of remote patient monitoring
- Applications in chronic disease management
- Integration of wearable devices and sensors
- Practical examples and case studies
- Challenges and solutions in remote patient monitoring

### 4. Virtual Consultation Skills and Communication:

- Effective communication in virtual consultations
- Addressing non-verbal communication challenges
- Building patient trust in a virtual setting
- Role-playing exercises and simulations
- Feedback and improvement strategies

### 5. Virtual Pharmacy Operations:

- Introduction to virtual pharmacies
- Technology in medication management and dispensing
- Ensuring medication adherence in virtual settings
- Case studies



  
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**6. Data Security, Privacy, and Future Trends:**

- Importance of data security and patient privacy
- Compliance with healthcare data protection laws
- Future trends and innovations in telemedicine

*D. Subhasri*

**Course Coordinator**

*V. Uma Sankar*  
**HOD**

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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	Telemedicine and virtual pharmacy	Break	Telemedicine and virtual pharmacy	Lunch	Telemedicine and virtual pharmacy	Telemedicine and virtual pharmacy	Break	Telemedicine and virtual pharmacy	Telemedicine and virtual pharmacy
TUE									
WED									
THU									
FRI									
SAT									

*D. Subhasri*

Course Coordinator

*V. UmaSankar*

HOD

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Reference book: "Telemedicine and E-Health Services, Policies, and Applications: Advancements and Developments" edited by Joel Rodrigues

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	08-07-2019	6hrs	<b>1. Introduction to Telemedicine and Virtual Pharmacy:</b> <ul style="list-style-type: none"><li>• Overview of Telemedicine and Virtual Pharmacy</li><li>• Historical development and evolution</li><li>• Types and models of telemedicine</li><li>• Legal and ethical considerations in telemedicine</li></ul>
2.		09-07-2019	6hrs	<b>2. Telehealth Technologies and Platforms:</b> <ul style="list-style-type: none"><li>• Introduction to telehealth technologies</li><li>• Telehealth platforms and their features</li><li>• Choosing the right technology for telemedicine</li><li>• Hands-on training with telehealth platforms</li><li>• Best practices for virtual consultations</li></ul>
3.		10-07-2019	6hrs	<b>3. Remote Patient Monitoring and Wearable Devices:</b> <ul style="list-style-type: none"><li>• Concept of remote patient monitoring</li><li>• Applications in chronic disease management</li><li>• Integration of wearable devices and sensors</li><li>• Practical examples and case studies</li><li>• Challenges and solutions in remote patient monitoring</li></ul>



  
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4.	11-07-2019	6hrs	<b>4. Virtual Consultation Skills and Communication:</b> <ul style="list-style-type: none"><li>• Effective communication in virtual consultations</li><li>• Addressing non-verbal communication challenges</li><li>• Building patient trust in a virtual setting</li><li>• Role-playing exercises and simulations</li><li>• Feedback and improvement strategies</li></ul>
5.	12-07-2019	6hrs	<b>5. Virtual Pharmacy Operations:</b> <ul style="list-style-type: none"><li>• Introduction to virtual pharmacies</li><li>• Technology in medication management and dispensing</li><li>• Ensuring medication adherence in virtual settings</li><li>• Case studies</li></ul>
6.	13-07-2019	6hrs	<b>6. Data Security, Privacy, and Future Trends:</b> <ul style="list-style-type: none"><li>• Importance of data security and patient privacy</li><li>• Compliance with healthcare data protection laws</li><li>• Future trends and innovations in telemedicine</li></ul>

*D. Subhasi*

Course Coordinator

*V. Uma Shankar*  
HOD

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## Assessment:

- 1. What is the primary goal of telemedicine?**
  - a. To replace traditional healthcare
  - b. To provide healthcare remotely using technology
  - c. To reduce the need for healthcare services
  - d. To increase healthcare costs
- 2. What does the term "e-Pharmacy" refer to?**
  - a. Traditional brick-and-mortar pharmacies
  - b. Online pharmacies
  - c. Virtual reality pharmacies
  - d. Mobile pharmacies
- 3. Which of the following is a legal consideration in telemedicine practice?**
  - a. Data encryption
  - b. Patient consent
  - c. Technology speed
  - d. Consultation duration
- 4. What is a key challenge in non-verbal communication during virtual consultations?**
  - a. Limited access to technology
  - b. Lack of physical examination
  - c. Time zone differences
  - d. Language barriers
- 5. What is the purpose of remote patient monitoring in telemedicine?**
  - a. To replace in-person consultations
  - b. To monitor patients in real-time outside of healthcare facilities
  - c. To limit patient data collection
  - d. To reduce patient engagement
- 6. In virtual pharmacy operations, what does "medication adherence" refer to?**
  - a. Patient's ability to follow dosage instructions
  - b. The speed of medication delivery
  - c. The cost of medications
  - d. Pharmacy location
- 7. Which technology is commonly used for virtual consultations in telemedicine?**
  - a. Morse Code
  - b. Fax machines
  - c. Video conferencing
  - d. Smoke signals
- 8. What is a critical consideration for ensuring data security in telemedicine?**
  - a. Sharing patient information on social media
  - b. Storing patient data on personal devices
  - c. Using secure and encrypted communication channels
  - d. Deleting patient records regularly



  
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**9. What is a potential benefit of virtual pharmacies in healthcare?**

- a. Increased travel time for patients
- b. Limited access to medication information
- c. Improved medication adherence
- d. Reduced availability of medications

**10. What does HIPAA stand for in the context of telemedicine?**

- a. Health Insurance Program for All Americans
- b. Health Information Portability and Accountability Act
- c. Hospital Information and Patient Access Act
- d. Healthcare Integration and Privacy Protection Act

*D. Subhasi*

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Date : 08-07-2019 to 13-07-2019

No. of Students Enrolled : 24

Subject : Telemedicine and virtual pharmacy V 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

*D. Subhasini*

**Course Coordinator**

*V. Uma Sankar*  
**HOD**

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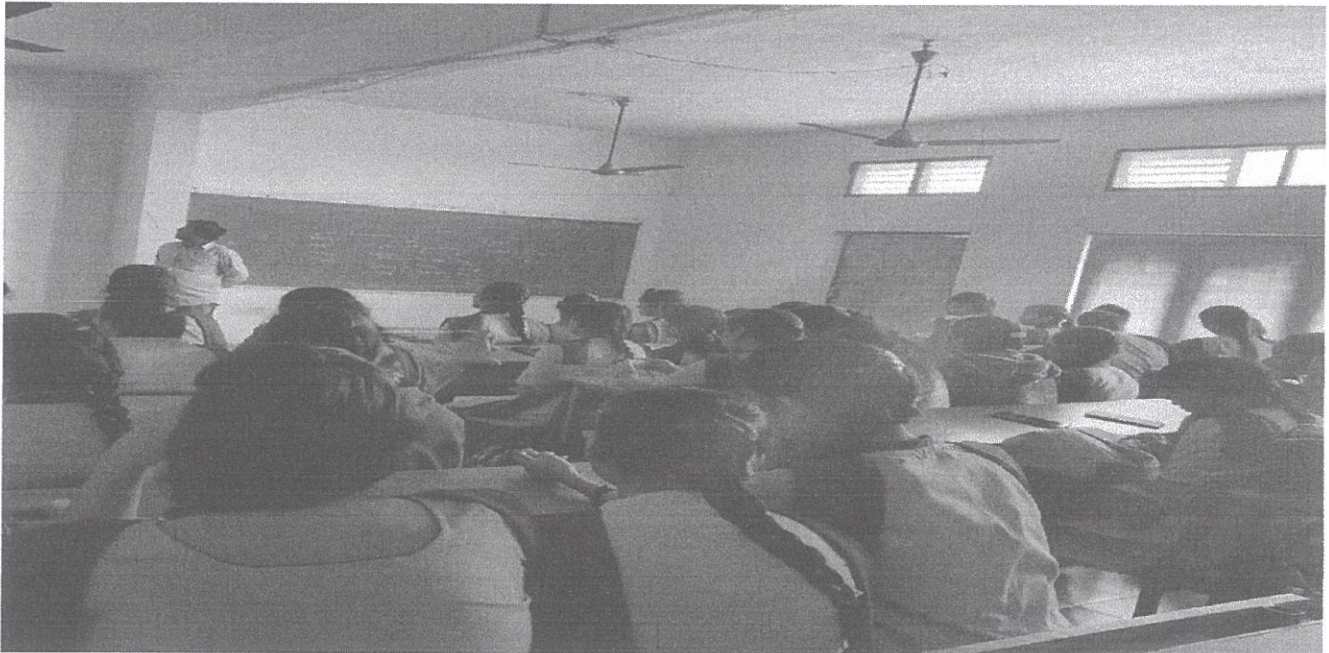


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The students of 5<sup>th</sup> year Pharm. D certificate program attending on “TELEMEDICINE AND VIRTUAL PHARMACY” by the Associate Professor, Mr. A Nanaji, Avanathi Institute of Pharmaceutical Sciences

*D. Subhagiri*

Course Coordinator



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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	Gatikipati Meena Ujwala	✓	✓	✓	✓	✓	✓
7	15T51T0008	Gavara Kusuma	A	A	A	A	A	A
8	15T51T0010	Kada Pinky	✓	✓	✓	✓	✓	✓
9	15T51T0011	Kandregula Chandhusai Raja	✓	✓	✓	✓	✓	✓
10	15T51T0012	Karra Someswara Rao	✓	✓	✓	✓	✓	✓
11	15T51T0013	Killi Bhargavi	✓	✓	✓	✓	✓	✓
12	15T51T0014	Kontheti Mahesh Pavan	✓	✓	✓	✓	✓	A
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	✓	✓	✓	✓	A	✓
21	15T51T0025	Venuthurupalli Atchuta Lakshmi Reethika	✓	✓	✓	✓	✓	✓
22	15T51T0026	Vamaraju Upajna	✓	✓	✓	✓	✓	✓
23	15T51T0027	Voota Jayalakshmi	✓	✓	✓	✓	✓	A
24	15T51T0028	Palla Tanusha	A	A	A	A	A	A

*Subha Sri*  
Course Coordinator

*V. Anugankar*  
HOD  
Avanthi Institute of Pharmaceutical Science  
CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



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Date : 08-07-2019 to 13-07-2019

No. of Students Enrolled : 24

Subject : Telemedicine and virtual pharmacy V Pharm. D

S. No	Roll No.	Students Name	No. of classes attended	% of classes attended
1	15T51T0001	Allamsetty Jyotsna	36	100%
2	15T51T0002	Anumanchipalli Venkata Alekhya	36	100%
3	15T51T0003	Bodapati Vineela	36	100%
4	15T51T0004	Burreddy Navya Deepika	36	100%
5	15T51T0005	D V S NagaPhani Sharma	36	100%
6	15T51T0006	Garikipati Meena Ujwala	36	100%
7	15T51T0008	Gavara Kusuma	Nil	0%
8	15T51T0010	Kada Pinky	36	100%
9	15T51T0011	Kandregula Chandhusai Raja	36	100%
10	15T51T0012	Karra Someswara Rao	36	100%
11	15T51T0013	Killi Bhargavi	36	100%
12	15T51T0014	Kontheti Mahesh Pavan	30	83%
13	15T51T0015	Kuppili Prasanna Lakshmi	36	100%
14	15T51T0016	Madapi Krishna vamsi	36	100%
15	15T51T0017	Mandadi Vinod Kumar	36	100%
16	15T51T0019	Mayuri Mercy Paul	36	100%
17	15T51T0020	Pedada Syam Prashanth	36	100%
18	15T51T0021	Ramavathu Bhargava Krishna Naik	36	100%



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

*D. Subhasini*

**Course Coordinator**

*V. Uma Shankar*  
**HOD**

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## Certificate of Completion

This is to certify that Mr/Ms **PATHIGILLI KAVYA SRI** bearing roll no. 14T51T0021 pursuing VI Pharm D has successfully completed value added course on **“TELEMEDICINE AND VIRTUAL PHARMACY”** held from 08-07-2019 to 13-07-2019.

*V. Abhisankar*

Convener



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## Certificate of Completion

This is to certify that Mr/Ms **RACHURI MANOGNA** bearing roll no. 14T51T0022  
pursuing VI Pharm D has successfully completed value added course on  
“**TELEMEDICINE AND VIRTUAL PHARMACY**”  
held from 08-07-2019 to 13-07-2019.

*V. Anasankar*

Convener



*[Signature]*

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## Certificate of Completion

This is to certify that Mr/Ms **RADHIKA D V L** bearing roll no. 14T51T0023 pursuing VI Pharm D has successfully completed value added course on  
“TELEMEDICINE AND VIRTUAL PHARMACY”  
held from 08-07-2019 to 13-07-2019.

*V. L. Sankar*

Convener



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## Certificate of Completion

This is to certify that Mr/Ms **YANDAVA SPANDANA** bearing roll no. 14T51T0029 pursuing VI Pharm D has successfully completed value added course on **“TELEMEDICINE AND VIRTUAL PHARMACY”** held from 08-07-2019 to 13-07-2019.

*V. Uma Sankar*

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## Certificate of Completion

This is to certify that Mr/Ms **SIMHA HARIPRIYA** bearing roll no. 14T51T0030  
pursuing VI Pharm D has successfully completed value added course on  
“**TELEMEDICINE AND VIRTUAL PHARMACY**”  
held from 08-07-2019 to 13-07-2019.

*V. UmaSankar*

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## Certificate of Completion

This is to certify that Mr/Ms **Mandadi Vinod Kumar** bearing roll no. 15T51T0017  
pursuing V Pharm D has successfully completed value added course on  
“**TELEMEDICINE AND VIRTUAL PHARMACY**”  
held from 08-07-2019 to 13-07-2019.

*V. Illing Sankar*

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## Certificate of Completion

This is to certify that Mr/Ms **Mayuri Mercy Paul** bearing roll no. 15T51T0019  
pursuing V Pharm-D has successfully completed value added course on  
“**TELEMEDICINE AND VIRTUAL PHARMACY**”  
held from 08-07-2019 to 13-07-2019.

*V. Uma Sankar*

Convener



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## Certificate of Completion

This is to certify that Mr/Ms **Pedada Syam Prashanth** bearing roll no. 15T51T0020 pursuing V Pharm D has successfully completed value added course on **“TELEMEDICINE AND VIRTUAL PHARMACY”** held from 08-07-2019 to 13-07-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **Ramavathu Bhargava Krishna Naik** bearing  
roll no. 15T51T0021 pursuing  
V Pharm D has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **Palla Tanusha** bearing roll no. 15T51T0028 pursuing V Pharm D has successfully completed value added course on  
“**TELEMEDICINE AND VIRTUAL PHARMACY**”  
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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2019-20/02

Date: 19-08-2019

### CIRCULAR

This is to inform all the students of II B. Pharmacy that a value-added course will be conducted on the topic "Personalized medicine by approach of microbiome therapeutics" from 26/08/2019 to 31/08/2019 interested students are required to sign-up for the above mentioned course with "Ms. CH. PADMAJA" Executive Eisai Pharmaceuticals.

  
Principal

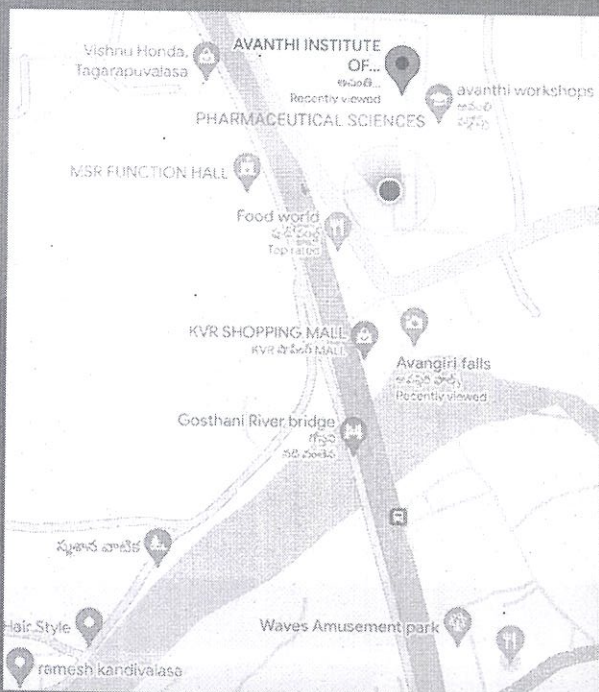
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## Institution

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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

Ms. Ch. Padmaja,  
Executive Manager



ESAI Pharmaceutical  
Pvt. Ltd.

## 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

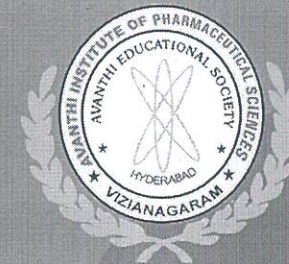
On

## Personalised Medicine by Approach of Microbiome Therapeutics

26/08/2019 - 31/08/2019

Organized By:

DEPARTMENT OF  
PHARMACY PRACTICE



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---

Course Title	: Personalized medicine by approach of microbiome therapeutics
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course Instructor	: Ms. Ch. Padmaja, Executive Eisai Pharmaceuticals, Paravada, Vishakapatnam
Course Coordinator	: Mrs. M. Madhavi Kumari, Associate Professor
Dates	: 26-08-2019 to 31-08-2019
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/B. Pharm/2019/02


## Objectives:

- Microbiome fundamentals
- Technological Advances
- Microbiome Dysbiosis
- Therapeutic approaches

## Outcomes:

- Integration
- Ethical responsibility
- Research literacy
- Regulatory frameworks
- Disease – Microbiome connections



  
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## Syllabus

### 1. Introduction :

- Introduction to antibiotics
- Importance
- Functions
- Microbiome composition and diversity

### 2. Technological Advances in Microbiome Analysis:

- High – Throughput sequencing Technologies
- Bioinformatics
- Analyzing Microbiome Data

### 3. Microbiome Dysbiosis and Disease Connections:

- Microbiome Dysbiosis
- Disease linked to microbiome Imbalances
- Case studies

### 4. Therapeutic Approaches in Microbiome Modulation:

- Microbiome modulation strategies
- Probiotics, prebiotics and postbiotics
- Fecal Microbiota Transplantation
- Microbiome – targeted drug development

### 5. Integration of Omics Data in Personalized Medicine:

- Genomics, metagenomics and other omics
- Integrating multi – omics data
- Applications

### 6. Ethical and Regulatory Considerations, Case Studies, and Presentations:

- Ethical issues
- Regulatory landscape
- Case studies

Course Coordinator

HOD



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## 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	Personalized medicine by approach of microbiome therapeutics	Break	Personalized medicine by approach of microbiome therapeutics	Lunch	Personalized medicine by approach of microbiome therapeutics	Personalized medicine by approach of microbiome therapeutics	Break	Personalized medicine by approach of microbiome therapeutics	Personalized medicine by approach of microbiome therapeutics
TUE									
WED									
THU									
FRI									
SAT									

Course Coordinator

HOD

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Reference book: "Precision Medicine: A Guide to Genomics in Clinical Practice" by Jeanette J. McCarthy and Bryce A. Mendelsohn

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	26-08-2019	6hrs	<b>1. Introduction :</b> <ul style="list-style-type: none"> <li>• Introduction to antibiotics</li> <li>• Importance</li> <li>• Functions</li> <li>• Microbiome composition and diversity</li> </ul>
2.		27-08-2019	6hrs	<b>2. Technological Advances in Microbiome Analysis:</b> <ul style="list-style-type: none"> <li>• High – Throughput sequencing Technologies</li> <li>• Bioinformatics</li> <li>• Analyzing Microbiome Data</li> </ul>
3.		28-08-2019	6hrs	<b>3. Microbiome Dysbiosis and Disease Connections:</b> <ul style="list-style-type: none"> <li>• Microbiome Dysbiosis</li> <li>• Disease linked to microbiome Imbalances</li> <li>• Case studies</li> </ul>
4.		29-08-2019	6hrs	<b>4. Therapeutic Approaches in Microbiome Modulation:</b> <ul style="list-style-type: none"> <li>• Microbiome modulation strategies</li> <li>• Probiotics, prebiotics and postbiotics</li> <li>• Fecal Microbiota Transplantation</li> <li>• Microbiome – targeted drug development</li> </ul>
5.		30-08-2019	6hrs	<b>5. Integration of Omics Data in Personalized Medicine:</b> <ul style="list-style-type: none"> <li>• Genomics, metagenomics and other omics</li> <li>• Integrating multi – omics data</li> <li>• applications</li> </ul>



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6.		31-08-2019	6hrs	<b>6. Ethical and Regulatory Considerations, Case Studies, and Presentations:</b> <ul style="list-style-type: none"><li>• Ethical issues</li><li>• Regulatory landscape</li><li>• Case studies</li></ul>
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*M. elu*

Course Coordinator

*N. Neelina*  
HOD

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CHITTIVALASA S.A.O.  
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Vizianagaram Dt., - 531162



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## Assessment:

1. **What is the primary focus of personalized medicine in the context of microbiome therapeutics?**
  - a. Generic treatments
  - b. Individualized patient care
  - c. Mass vaccination
  - d. Population – wide interventions
2. **Which technological tool is commonly used for analyzing the microbiome in personalized medicine?**
  - a. PCR
  - b. X-Ray
  - c. Blood Tests
  - d. Electrocardiogram
3. **What is the significance of microbiome dysbiosis in the context of personalized medicine?**
  - a. It leads to increased energy levels
  - b. It is unrelated to health conditions
  - c. It is associated with various diseases
  - d. It only affects the elderly
4. **Which of the following is a microbiome modulation strategy used in personalized medicine?**
  - a. Chemotherapy
  - b. Probiotics
  - c. Blood transfusion
  - d. Physical therapy
5. **What role do probiotics play in microbiome therapeutics?**
  - a. They are harmful to the microbiome
  - b. They promote the growth of beneficial microorganisms
  - c. They have no impact on the microbiome
  - d. They directly kill pathogenic bacteria
6. **What is FMT in the context of microbiome therapeutics?**
  - a. Fetal Microbiome Treatment
  - b. Funal microbiota therapy
  - c. Fecal microbiota transplantation
  - d. Fresh microbiome testing
7. **Which omics approach involves the study of all the protein in a biological system?**
  - a. Genomics
  - b. Metagenomics
  - c. Proteomics
  - d. Transcriptions



  
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8. **Why is the integration of omics data important in personalized medicine?**
  - a. To increase treatment cost
  - b. To complicate medical procedures
  - c. To enhance the understanding of individual patient profile
  - d. To limit treatment options
9. **What ethical considerations are relevant to microbiome research and therapeutics?**
  - a. Personal preferences of researchers
  - b. Informed consent, privacy, and data sharing
  - c. Speed of research publication
  - d. Exclusivity of findings
10. **In personalized medicine through microbiome therapeutics, what regulatory aspect is crucial for ensuring patient safety?**
  - a. Speeding up the approval process
  - b. Collaborating with non-accredited researchers
  - c. Adhering to established ethical guidelines
  - d. Ignoring regulatory requirements for faster implementation

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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
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55	18T51R0060	Pontapalli Bharathi
56	18T51R0061	Puppala Shravya
57	18T51R0062	Rajamahendraravapu Surekha
58	18T51R0063	Rana Pramajeeta Pramodkumar
59	18T51R0064	Rayapalli Hema Latha
60	18T51R0065	Rokkala Prasanthi
61	18T51R0066	Rudrakshula Saipreethi
62	18T51R0067	Sagiraju Priyanka



  
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67	18T51R0074	Teppala Tirupathi
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*M. S. S.*

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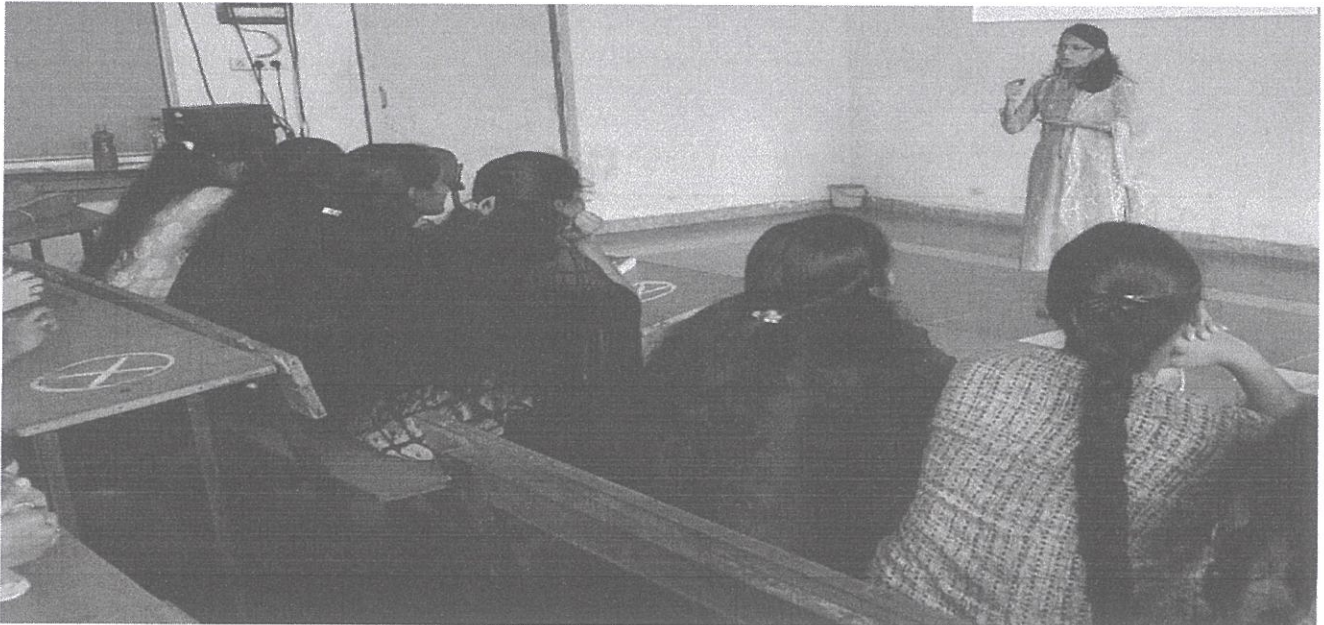
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The students of 2<sup>nd</sup> year B. Pharmacy certificate program attending on “**PERSONALIZED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS**” by the Ms. Ch. Padmaja, Executive Eisai Pharmaceuticals, Paravada, Vishakapatnam

*M. S. M.*  
**Course Coordinator**

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14	18T51R0015	Gandi Spandana	36	100%
15	18T51R0016	Ganesh Sri Harsha	36	100%
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17	18T51R0018	Gedala Pullarah Verma	36	100%



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*Principal*

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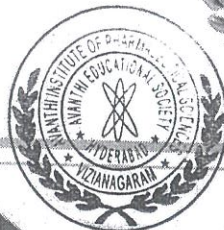
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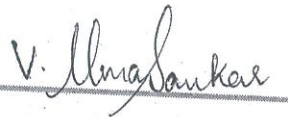
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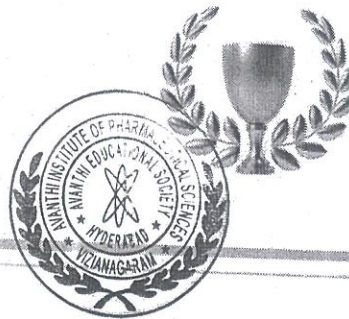
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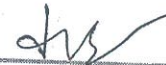
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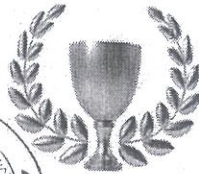
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This is to certify that Mr/Ms **KALAVALAPALLI RAMANI** bearing roll no. 18T51R0027 pursuing II B Pharmacy has successfully completed value added course on **“PERSONALISED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS”** held from 26-08-2019 to 31-08-2019.

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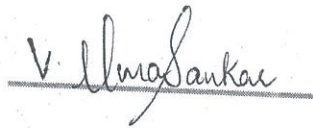
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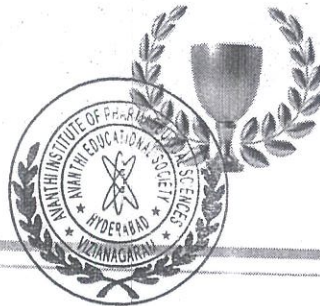
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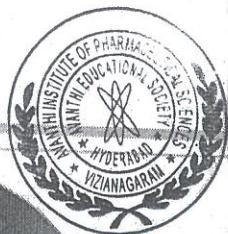
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This is to certify that Mr/Ms **VEMAGIRI RAJKAMAL** bearing roll no. 18T51R0082 pursuing II B Pharmacy has successfully completed value added course on **“PERSONALISED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS”** held from 26-08-2019 to 31-08-2019.

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This is to certify that Mr/Ms **YANUMULA THRINADH REDDY** bearing roll no. 18T51R0083 pursuing II B Pharmacy has successfully completed value added course on **“PERSONALISED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS”** held from 26-08-2019 to 31-08-2019.

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This is to certify that Mr/Ms **YEDDU ISWARYADEVI** bearing roll no. 18T51R0084 pursuing II B Pharmacy has successfully completed value added course on **“PERSONALISED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS”** held from 26-08-2019 to 31-08-2019.

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This is to certify that Mr/Ms **K CHINNA REDDY** bearing roll no. 17T51R0075  
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This is to certify that Mr/Ms **DODDI SAI MADHURI** bearing roll no. 18T51R0012  
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## Certificate of Completion

This is to certify that Mr/Ms **DEVISETTI SRI BHAVYA VIHARIKA**  
bearing roll no. 18T51R0011 pursuing II B Pharmacy has successfully completed value added

course on

**“PERSONALISED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS”**

held from 26-08-2019 to 31-08-2019.

*V. Uma Sankar*

Convener



*[Signature]*

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Vizianagaram Dt., - 531162



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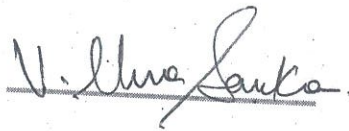
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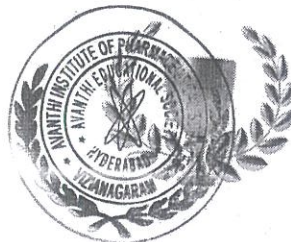
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## Certificate of Completion

This is to certify that Mr/Ms **DASIREDDY SAISRI** bearing roll no. 18T51R0010  
pursuing II B Pharmacy has successfully completed value added course on  
“**PERSONALISED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS**”  
held from 26-08-2019 to 31-08-2019.



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## Certificate of Completion

This is to certify that Mr/Ms **DASARI RUCHITHA REDDY** bearing roll no. 18T51R0009 pursuing II B Pharmacy has successfully completed value added course on **“PERSONALISED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS”** held from 26-08-2019 to 31-08-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **DANTLA POORNA SAI** bearing roll no. 18T51R0008 pursuing II B Pharmacy has successfully completed value added course on **“PERSONALISED MEDICINE BY APPROACH OF MICROBIOME THERAPEUTICS”** held from 26-08-2019 to 31-08-2019.

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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2019-20/03

Date: 09-09-2019

### CIRCULAR

This is to inform all the students of IVB. Pharmacy that a value-added course will be conducted on the topic "Pharmaceutical 3D printing, innovative technology" from 16/09/2019 to 21/09/2019. Interested students are required to sign-up for the above mentioned course with "**Dr. R. SANTHOSH KUMAR**" 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

Dr. R. Santosh Kumar,  
Associate Professor,



GITAM School  
Of Pharmacy

## Organizing Committee

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

Mrs. B. Chaitanya, Associate Professor

Ms. Y. Vishnu Vandana, Associate Professor

## Members

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



6 Days Workshop

On

Pharmaceutical 3D  
Printing, Innovative  
Technology

16/09/2019- 21/09/2019

Organized By:

DEPARTMENT OF  
PHARMACY



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

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Course Title	: Pharmaceutical 3D printing, innovative technology
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course Instructor	: Dr. R. Santhosh Kumar, Professor, Gitam Institute of Pharmacy, Rushikonda, Visakhapatnam
Course Coordinator	: Mrs. B. Chaithanya, Associate Professor
Dates	: 16-09-2019 to 21-09-2019
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/B. Pharm/2019/03</b>

**Objectives:**

- Fundamentals
- Materials and formulations
- Regulatory landscape
- Quality control and assurance
- Design

**Outcomes:**

- Evaluation
- Implementation
- Analysis
- Regulatory compliance



  
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## Syllabus

### 1. Introduction :

- Introduction
- Importance
- History
- Application
- Significance

### 2. Fundamentals of Pharmaceutical 3D Printing Techniques:

- Powder bed fusion in pharmaceutical 3D printing
- Extrusion-based printing techniques
- Comparison of different 3D printing methods
- Case studies on successful applications of 3D printing in pharmaceuticals
- Practical considerations and challenges in implementing 3D printing techniques

### 3. Materials and Formulations in Pharmaceutical 3D Printing:

- Types of materials used in pharmaceutical 3D printing (polymers, ceramics, metals)
- Material properties and their impact on the printing process
- Formulation considerations for 3D printing in pharmaceuticals
- Hands-on activity: Material selection for a hypothetical pharmaceutical product

### 4. Regulatory Landscape and Compliance in Pharmaceutical 3D Printing:

- Regulatory considerations for pharmaceutical 3D printing
- Guidelines and standards in place for ensuring compliance
- Case studies on regulatory challenges and solutions
- Interactive session with regulatory experts

### 5. Quality Control and Assurance in Pharmaceutical 3D Printing:

- Importance of quality control in pharmaceutical manufacturing
- Validation and verification processes in 3D printing
- Industry standards for quality assurance

### 6. Designing for Pharmaceutical 3D Printing and Future Trends:

- Principles of designing pharmaceutical products for 3D printing
- Software tools for designing in the context of 3D printing
- Hands-on workshop on designing a pharmaceutical product
- Emerging trends and future prospects in pharmaceutical 3D printing

*B. Chaitanya*  
Course Coordinator



*Principal*  
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*N. Deelina*  
*B. Chaitanya*  
HOD



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## 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	Pharmaceutical 3D printing, innovative technology	Break	Pharmaceutical 3D printing, innovative technology	Lunch	Pharmaceutical 3D printing, innovative technology	Pharmaceutical 3D printing, innovative technology	Break	Pharmaceutical 3D printing, innovative technology	Pharmaceutical 3D printing, innovative technology
TUE									
WED									
THU									
FRI									
SAT									

*B. Chaitanya*  
Course Coordinator

*N. Neelima*  
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Bhogapuram (M), Vizianagaram Dist



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Vizianagaram Dt., - 531162



Reference book: "Pharmaceutical 3D Printing: Drug Development and Clinical Applications"  
by A. Alhnan, S. Basit, and S. Okwuosa

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	16-09-2019	6hrs	<b>1. Introduction :</b> <ul style="list-style-type: none"><li>• Introduction</li><li>• Importance</li><li>• History</li><li>• Application</li><li>• Significance</li></ul>
2.		17-09-2019	6hrs	<b>2. Fundamentals of Pharmaceutical 3D Printing Techniques:</b> <ul style="list-style-type: none"><li>• Powder bed fusion in pharmaceutical 3D printing</li><li>• Extrusion-based printing techniques</li><li>• Comparison of different 3D printing methods</li><li>• Case studies on successful applications of 3D printing in pharmaceuticals</li><li>• Practical considerations and challenges in implementing 3D printing techniques</li></ul>
3.		18-09-2019	6hrs	<b>3. Materials and Formulations in Pharmaceutical 3D Printing:</b> <ul style="list-style-type: none"><li>• Types of materials used in pharmaceutical 3D printing (polymers, ceramics, metals)</li><li>• Material properties and their impact on the printing process</li><li>• Formulation considerations for 3D printing in pharmaceuticals</li><li>• Hands-on activity: Material selection for a hypothetical pharmaceutical product</li></ul>



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4.		19-09-2019	6hrs	<b>4. Regulatory Landscape and Compliance in Pharmaceutical 3D Printing:</b> <ul style="list-style-type: none"><li>• Regulatory considerations for pharmaceutical 3D printing</li><li>• Guidelines and standards in place for ensuring compliance</li><li>• Case studies on regulatory challenges and solutions</li><li>• Interactive session with regulatory experts</li></ul>
5.		20-09-2019	6hrs	<b>5. Quality Control and Assurance in Pharmaceutical 3D Printing:</b> <ul style="list-style-type: none"><li>• Importance of quality control in pharmaceutical manufacturing</li><li>• Validation and verification processes in 3D printing</li><li>• Industry standards for quality assurance</li></ul>
6.		21-09-2019	6hrs	<b>6. Designing for Pharmaceutical 3D Printing and Future Trends:</b> <ul style="list-style-type: none"><li>• Principles of designing pharmaceutical products for 3D printing</li><li>• Software tools for designing in the context of 3D printing</li><li>• Hands-on workshop on designing a pharmaceutical product</li><li>• Emerging trends and future prospects in pharmaceutical 3D printing</li></ul>

*B. Chaitanya*  
Course Coordinator



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*N-Medica*  
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**Assessment:**

- 1. What is the primary advantage of 3D printing in pharmaceuticals?**
  - a. Mass production
  - b. Customization
  - c. Rapid prototyping
  - d. Traditional manufacturing
- 2. Which 3D printing technique is commonly used in pharmaceutical manufacturing?**
  - a. Stereolithography
  - b. Fused Deposition Modeling (FDM)
  - c. Selective Laser Sintering (SLS)
  - d. Electron Beam Melting (EBM)
- 3. What is a key consideration when selecting materials for pharmaceutical 3D printing?**
  - a. Cost-effectiveness
  - b. Color options
  - c. Material taste
  - d. Material biocompatibility
- 4. In pharmaceutical 3D printing, what is the purpose of regulatory guidelines?**
  - a. Restrict innovation
  - b. Ensure safety and quality
  - c. Promote competition
  - d. Reduce production costs
- 5. What is an essential step in quality control for 3D printed pharmaceutical products?**
  - a. Assessing material color
  - b. Evaluating surface smoothness
  - c. Validating and verifying the printing process
  - d. Measuring product weight
- 6. Which software tools are commonly used for designing pharmaceutical products for 3D printing?**
  - a. Microsoft Word
  - b. AutoCAD
  - c. Adobe Photoshop
  - d. Google Sheets
- 7. Which printing method involves selectively solidifying a liquid resin using a laser or light source?**
  - a. Fused Deposition Modeling (FDM)
  - b. Stereolithography (SLA)
  - c. Selective Laser Sintering (SLS)
  - d. Inkjet Printing



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Date : 16-09-2019 to 21-09-2019  
No. of Students Enrolled : 69  
Subject : "Pharmaceutical 3D printing, innovative technology"  
IV B. Pharmacy

S. No	Roll No.	Student Name
1	16T51R0002	Arepalli Meghana
2	16T51R0003	Arifa Tasleem
3	16T51R0004	Avala Lalitha
4	16T51R0005	Bandekar Nandini
5	16T51R0006	Boddapalli Likitha
6	16T51R0007	Buddaraju Himabindu
7	16T51R0008	Buddha Pugitha
8	16T51R0009	Burla Yamini
9	16T51R0010	Chandaka Sreelatha
10	16T51R0011	Chapa Anusha
11	16T51R0012	Cherakapu Sai Sravani
12	16T51R0013	Chintagunti Sai Lavanya
13	16T51R0014	Dasari Yumuna
14	16T51R0015	Donka Yamini
15	16T51R0017	Gembali Sravanthi
16	16T51R0018	Gladson Victor
17	16T51R0019	Gorle Aswini
18	16T51R0020	Gorle Kamala



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19	16T51R0021	Gummadi Bhavani
20	16T51R0022	Gurugubelli Pranathi
21	16T51R0023	Isai Navyatha
22	16T51R0024	Jaheera
23	16T51R0025	Jajala Syni
24	16T51R0026	Kammili Anjali
25	16T51R0027	Kanithi Anitha
26	16T51R0028	Karakavalasa Sai Manoj
27	16T51R0029	Koduganti Sowmya Koushiki
28	16T51R0030	Kolli Devi
29	16T51R0031	Kollu Durga Devi
30	16T51R0032	Kommu Anusha
31	16T51R0033	Kondeti Deepika
32	16T51R0034	Koppara Srikanth
33	16T51R0035	Kosireddy Prameela
34	16T51R0036	Kotapadu Krishna Sri
35	16T51R0037	Kothakota Vanajakshi
36	16T51R0038	Lakkaraju Pavani
37	16T51R0039	M.Roja
38	16T51R0040	Majji Guna Sundari
39	16T51R0042	Melupati Alekhya
40	16T51R0044	Mottadam Sony Priyanka



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41	16T51R0046	Nagaraju Sruthi Sandhya
42	16T51R0047	Nalamati Kissore Nani
43	16T51R0048	Nandukuri Devi
44	16T51R0049	P.Sri Sai Prakash
45	16T51R0050	Paila Nirupa
46	16T51R0051	Pakki Harika
47	16T51R0052	Pampani Sandhya
48	16T51R0053	Pativada Gagana
49	16T51R0054	Ponaganti Renuka
50	16T51R0055	Pothu Susanna Priyanka
51	16T51R0056	Premkumar Jain
52	16T51R0057	Rayidi Naga Devi
53	16T51R0058	Roshini Chellai
54	16T51R0059	Sabbavarapu Parvathi
55	16T51R0060	Sanapala Moulika
56	16T51R0062	Sayyad Ashiya Parveen
57	16T51R0063	Sesepti Niharika
58	16T51R0064	Simhadaddi Sai Srinivas
59	16T51R0065	Singampalli Naga Jyothi
60	16T51R0066	Siripalli Bhargavi
61	16T51R0067	Sowdala Dhileswrai
62	16T51R0068	Sunkari Vasantha Lakshmi



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8. **What role does customization play in pharmaceutical 3D printing?**
  - a. Reducing production time
  - b. Tailoring medication to individual patient needs
  - c. Standardizing drug formulations
  - d. Enhancing material compatibility
9. **What is a potential challenge in the regulatory landscape for pharmaceutical 3D printing?**
  - a. Lack of guidelines
  - b. Excessive regulation
  - c. Rapid changes in regulations
  - d. Absence of quality standards
10. **What is an emerging trend in pharmaceutical 3D printing?**
  - a. Decreased interest in personalized medicine
  - b. Limited applications in drug delivery
  - c. Integration of artificial intelligence in the design process
  - d. Reliance on traditional manufacturing methods

*B. Chaitanya*  
Course Coordinator

*N. Neelima*  
HOD

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



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63	16T51R0069	Turubilli Bharathi
64	16T51R0070	Ummidi Vamsipriya
65	16T51R0071	Uppada Harshavardhan
66	16T51R0072	Valli Nandini Ramya
67	16T51R0073	Vegi Sampath Bhavya
68	16T51R0074	Vulimiri Saipranati
69	16T51R0075	Vutapalli Esther Rani
70	16T51R0076	Yedla Hemalatha
71	16T51R0077	Kenguva Ramya
72	17T55R0001	Karri yerraji neeraja
73	14T51R0043	Ommi Swathi
74	14T51R0003	Bolisetti Sowjanya
75	14T51R0079	Rameshchnadra K

*B. Chaitanya*  
**Course Coordinator**

*N. Neelima*  
**HOD**

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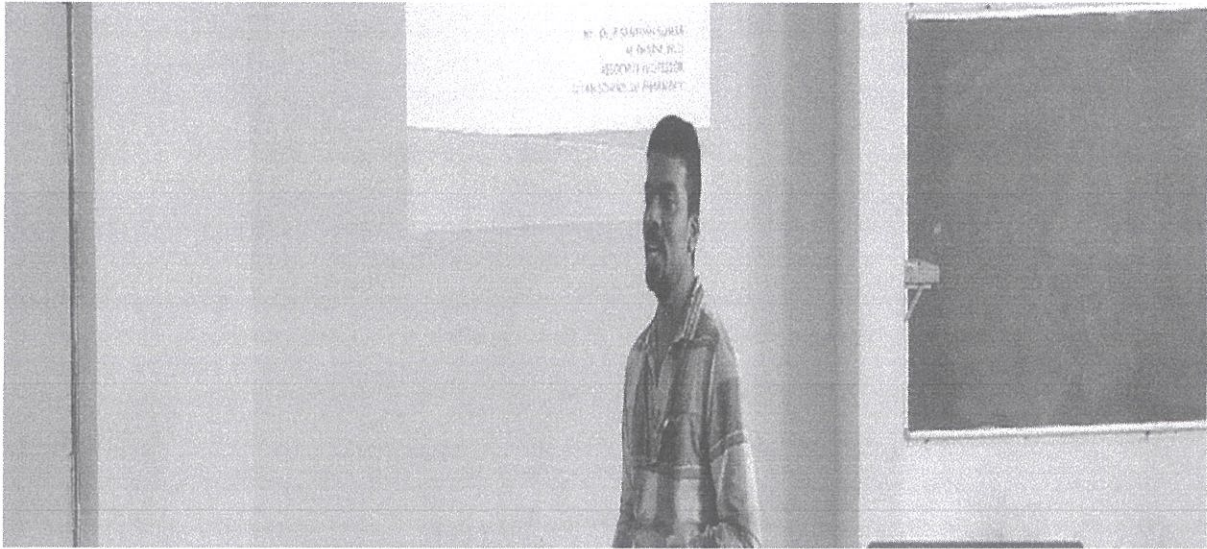


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The students of 4<sup>th</sup> year B. Pharmacy certificate program attending on “**PHARMACEUTICAL 3D PRINTING, INNOVATIVE TECHNOLOGY**” by the Professor, Dr. R. Santhosh Kumar, Gitam Institute of Pharmacy

*B. Chaitanya*  
**Course Coordinator**

*N. Neelima*  
**HOD**

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Date : 16-09-2019 to 21-09-2019

Subject : "Pharmaceutical 3D printing, innovative technology" IV B. Pharmacy

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2	16T51R0003	Arifa Tasleem	✓	A	✓	✓	✓	✓
3	16T51R0004	Avala Lalitha	✓	✓	✓	✓	✓	✓
4	16T51R0005	Bandekar Nandini	✓	✓	✓	✓	A	✓
5	16T51R0006	Boddapalli Likitha	A	✓	✓	✓	✓	✓
6	16T51R0007	Buddaraju Himabindu	✓	✓	✓	✓	✓	✓
7	16T51R0008	Buddha Pugitha	✓	✓	✓	✓	✓	A
8	16T51R0009	Burla Yamini	✓	✓	✓	✓	✓	✓
9	16T51R0010	Chandaka Sreelatha	A	A	A	A	A	A
10	16T51R0011	Chapa Anusha	A	✓	✓	✓	✓	✓
11	16T51R0012	Cherakapu Sai Sravani	✓	✓	✓	✓	✓	✓
12	16T51R0013	Chintagunti Sai Lavanya	✓	✓	✓	✓	✓	✓
13	16T51R0014	Dasari Yumuna	A	✓	✓	✓	✓	✓
14	16T51R0015	Donka Yamini	✓	✓	✓	✓	✓	✓
15	16T51R0017	Gembali Sravanthi	✓	✓	✓	✓	✓	✓
16	16T51R0018	Gladson Victor	✓	A	✓	✓	✓	✓
17	16T51R0019	Gorle Aswini	✓	✓	✓	✓	✓	✓
18	16T51R0020	Gorli Kamala	✓	✓	✓	✓	✓	✓
19	16T51R0021	Gummadi Bhavani	A	A	A	A	A	A

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20	16T51R0022	Gurugubelli Pranathi	✓	✓	✓	✓	A	A
21	16T51R0023	Isai Navyatha	✓	✓	✓	✓	✓	✓
22	16T51R0024	Jaheera	✓	✓	✓	✓	✓	✓
23	16T51R0025	Jajala Syni	✓	✓	✓	✓	✓	✓
24	16T51R0026	Kammili Anjali	✓	✓	✓	✓	✓	✓
25	16T51R0027	Kanithi Anitha	✓	✓	✓	✓	✓	✓
26	16T51R0028	Karakavalasa Sai Manoj	A	A	A	A	A	A
27	16T51R0029	Koduganti Sowmya Koushiki	✓	✓	✓	✓	✓	✓
28	16T51R0030	Kolli Devi	✓	✓	✓	✓	✓	✓
29	16T51R0031	Kollu Durga Devi	✓	✓	✓	✓	✓	✓
30	16T51R0032	Kommu Anusha	✓	✓	✓	✓	✓	✓
31	16T51R0033	Kondeti Deepika	A	✓	✓	✓	✓	✓
32	16T51R0034	Koppara Srikanth	✓	✓	✓	✓	✓	✓
33	16T51R0035	Kosireddy Prameela	✓	✓	✓	✓	✓	✓
34	16T51R0036	Kotapadu Krishna Sri	✓	✓	✓	✓	✓	✓
35	16T51R0037	Kothakota Vanajakshi	✓	✓	✓	✓	✓	✓
36	16T51R0038	Lakkaraju Pavani	✓	✓	✓	✓	✓	✓
37	16T51R0039	M.Roja	✓	✓	✓	✓	✓	✓
38	16T51R0040	Majji Guna Sundari	A	A	A	A	A	A
39	16T51R0042	Melupati Alekhya	✓	✓	✓	✓	A	✓
40	16T51R0044	Mottadam Sony Priyanka	✓	✓	✓	✓	✓	✓
41	16T51R0046	Nagaraju Sruthi Sandhya	✓	✓	✓	✓	✓	✓

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42	16T51R0047	Nalamati KissoreNani	✓	✓	✓	✓	✓	✓
43	16T51R0048	Nandukuri Devi	✓	✓	✓	✓	✓	✓
44	16T51R0049	P.Sri Sai Prakash	✓	A	✓	✓	✓	✓
45	16T51R0050	Paila Nirupa	✓	✓	✓	✓	A	A
46	16T51R0051	Pakki Harika	✓	✓	✓	✓	✓	✓
47	16T51R0052	Pampani Sandhya	A	✓	✓	A	✓	✓
48	16T51R0053	Pativada Gagana	✓	✓	✓	✓	✓	✓
49	16T51R0054	Ponaganti Renuka	✓	✓	✓	✓	✓	✓
50	16T51R0055	Pothu Susanna Priyanka	✓	✓	A	✓	✓	✓
51	16T51R0056	Premkumar Jain	✓	A	✓	✓	✓	A
52	16T51R0057	Rayidi Naga Devi	✓	✓	✓	✓	✓	✓
53	16T51R0058	Roshini Chellai	✓	✓	✓	✓	A	✓
54	16T51R0059	Sabbavarapu Parvathi	✓	✓	✓	A	✓	✓
55	16T51R0060	Sanapala Moulika	✓	✓	✓	✓	✓	✓
56	16T51R0062	Sayyad Ashiya Parveen	✓	✓	✓	✓	✓	✓
57	16T51R0063	Sesepti Niharika	✓	✓	✓	✓	✓	A
58	16T51R0064	Simhadaddi Sai Srinivas	✓	✓	✓	A	✓	✓
59	16T51R0065	Singampalli Naga Jyothi	A	✓	A	✓	✓	✓
60	16T51R0066	Siripalli Bhargavi	✓	✓	✓	✓	✓	✓
61	16T51R0067	Sowdala Dhileswrai	✓	✓	✓	✓	✓	✓
62	16T51R0068	Sunkari Vasantha Lakshmi	✓	✓	✓	✓	✓	✓
63	16T51R0069	Turubilli Bharathi	✓	✓	✓	✓	✓	✓

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64	16T51R0070	Ummidi Vamsipriya	✓	✓	✓	✓	✓	✓
65	16T51R0071	Uppada Harshavardhan	✓	✓	✓	✓	✓	✓
66	16T51R0072	Valli Nandini Ramya	✓	✓	✓	✓	✓	A
67	16T51R0073	Vegi Sampath Bhavya	✓	✓	✓	✓	✓	A
68	16T51R0074	Vulimiri Sai pranati	✓	✓	✓	✓	✓	✓
69	16T51R0075	Vutapalli Esther Rani	✓	✓	✓	✓	✓	✓
70	16T51R0076	Yedla Hemalatha	✓	✓	✓	✓	✓	✓
71	16T51R0077	Kenguva Ramya	A	A	A	A	A	A
72	17T55R0001	Karri Yerraji Neeraja	A	✓	✓	✓	✓	A
73	14T51R0043	Ommi Swathi	✓	✓	✓	✓	✓	A
74	14T51R0003	Bolisetti Sowjanya	✓	A	✓	✓	✓	✓
75	14T51R0079	Ramesh chandra K	✓	✓	✓	✓	✓	✓

*B. Chaitanya*  
Course Coordinator

*N. Neelima*  
HOD

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Date : 16-09-2019 to 21-09-2019  
No. of Students Enrolled : 69  
Subject : "Pharmaceutical 3D printing, innovative technology"  
IV B. Pharmacy

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	16T51R0002	Arepalli Meghana	36	100%
2	16T51R0003	Arifa Tasleem	30	80%
3	16T51R0004	Avala Lalitha	36	100%
4	16T51R0005	Bandekar Nandini	30	83%
5	16T51R0006	Boddapalli Likitha	30	83%
6	16T51R0007	Buddaraju Himabindu	36	100%
7	16T51R0008	Buddha Pugitha	30	83%
8	16T51R0009	Burla Yamini	36	100%
9	16T51R0010	Chandaka Sreelatha	Nil	0%
10	16T51R0011	Chapa Anusha	30	83%
11	16T51R0012	Cherakapu Sai Sravani	36	100%
12	16T51R0013	Chintagunti Sai Lavanya	36	100%
13	16T51R0014	Dasari Yumuna	30	83%
14	16T51R0015	Donka Yamini	36	100%
15	16T51R0017	Gembali Sravanthi	36	100%
16	16T51R0018	Gladson Victor	30	83%
17	16T51R0019	Gorle Aswini	36	100%



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18	16T51R0020	Gorli Kamala	36	100%
19	16T51R0021	Gummadi Bhavani	Nil	0%
20	16T51R0022	Gurugubelli Pranathi	24	66%
21	16T51R0023	Isai Navyatha	36	100%
22	16T51R0024	Jaheera	36	100%
23	16T51R0025	Jajala Syni	36	100%
24	16T51R0026	Kammili Anjali	36	100%
25	16T51R0027	Kanithi Anitha	36	100%
26	16T51R0028	Karakavalasa Sai Manoj	Nil	0%
27	16T51R0029	Koduganti Sowmya Koushiki	36	100%
28	16T51R0030	Kolli Devi	36	100%
29	16T51R0031	Kollu Durga Devi	36	100%
30	16T51R0032	Kommu Anusha	36	100%
31	16T51R0033	Kondeti Deepika	30	83%
32	16T51R0034	Koppara Srikanth	36	100%
33	16T51R0035	Kosireddy Prameela	36	100%
34	16T51R0036	Kotapadu Krishna Sri	36	100%
35	16T51R0037	Kothakota Vanajakshi	36	100%
36	16T51R0038	Lakkaraju Pavani	36	100%
37	16T51R0039	M.Roja	36	100%
38	16T51R0040	Majji Guna Sundari	Nil	0%
39	16T51R0042	Melupati Alekhya	30	83%



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40	16T51R0044	Mottadam Sony Priyanka	36	100%.
41	16T51R0046	Nagaraju Sruthi Sandhya	36	100%.
42	16T51R0047	Nalamati Kissore Nani	36	100%.
43	16T51R0048	Nandukuri Devi	36	100%.
44	16T51R0049	P.Sri Sai Prakash	30	83%.
45	16T51R0050	Paila Nirupa	24	66%.
46	16T51R0051	Pakki Harika	36	100%.
47	16T51R0052	Pampani Sandhya	24	66%.
48	16T51R0053	Pativada Gagana	36	100%.
49	16T51R0054	Ponaganti Renuka	36	100%.
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51	16T51R0056	Premkumar Jain	24	66%.
52	16T51R0057	Rayidi Naga Devi	36	100%.
53	16T51R0058	Roshini Chellai	30	83%.
54	16T51R0059	Sabbavarapu Parvathi	30	83%.
55	16T51R0060	Sanapala Moulika	36	100%.
56	16T51R0062	Sayyad Ashiya Parveen	36	100%.
57	16T51R0063	Sesepti Niharika	30	83%.
58	16T51R0064	Simhadaddi Sai Srinivas	30	83%.
59	16T51R0065	Singampalli Naga Jyothi	24	66%.
60	16T51R0066	Siripalli Bhargavi	36	100%.
61	16T51R0067	Sowdala Dhiteswari	36	100%.



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62	16T51R0068	Sunkari Vasantha Lakshmi	36	100%
63	16T51R0069	Turubilli Bharathi	36	100%
64	16T51R0070	Ummidi Vamsipriya	36	100%
65	16T51R0071	Uppada Harshavardhan	36	100%
66	16T51R0072	Valli Nandini Ramya	30	83%
67	16T51R0073	Vegi Sampath Bhavya	30	83%
68	16T51R0074	Vulimiri Saipranati	36	100%
69	16T51R0075	Vutapalli Esther Rani	36	100%
70	16T51R0076	Yedla Hemalatha	36	100%
71	16T51R0077	Kenguva Ramya	Nil	0%
72	17T55R0001	Karri yerraji neeraja	24	66%
73	14T51R0043	Ommi Swathi	30	83%
74	14T51R0003	Bolisetti Sowjanya	30	83%
75	14T51R0079	Rameshchnadra K	36	100%

*B. Chaitanya*  
Course Coordinator

*N. Neelima*  
HOD

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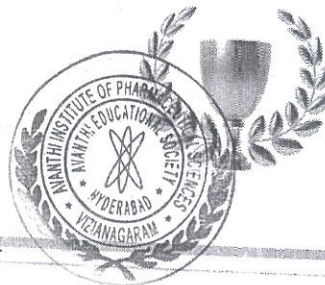
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## Certificate of Completion

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*V. Uma Sankar*

Convener



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## Certificate of Completion

This is to certify that Mr/Ms **CHAPA ANUSHA** bearing roll no. 16T51R0011 pursuing IV B Pharmacy has successfully completed value added course on **“PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY”** held from 16-09-2019 to 21-09-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **CHANDAKA SREELATHA** bearing roll no.

16T51R0010 pursuing

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Convener



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## Certificate of Completion

This is to certify that Mr/Ms **BURLA YAMINI** bearing roll no. 16T51R0009 pursuing IV B Pharmacy has successfully completed value added course on **“PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY”** held from 16-09-2019 to 21-09-2019.

*V. Anjalankar*

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This is to certify that Mr/Ms **BUDDHA PUGITHA** bearing roll no. 16T51R0008

pursuing

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*N. UmaSankar*

Convener



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16T51R0007 pursuing

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V. Uma Sankar

Convener



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## Certificate of Completion

This is to certify that Mr/Ms **BODDAPALLI LIKITHA** bearing roll no.

16T51R0006 pursuing

IV B Pharmacy has successfully completed value added course on

**“PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY”**

held from 16-09-2019 to 21-09-2019.

*V. Manoj Kumar*

Convener



*JVE*

PRINCIPAL

Avanthi Institute of Pharmaceutical Sciences

Cherukupally (V), Bhogapuram Mandal

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## Certificate of Completion

This is to certify that Mr/Ms **NAGARAJU SRUTHI SANDHYA** bearing roll no. 16T51R0046 pursuing IV B Pharmacy has successfully completed value added course on **“PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY”** held from 16-09-2019 to 21-09-2019.

*V. UmaSankar*

Convener



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## Certificate of Completion

This is to certify that Mr/Ms **NALAMATI KISSORE NANI** bearing roll no. 16T51R0047 pursuing IV B Pharmacy has successfully completed value added course on **“PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY”** held from 16-09-2019 to 21-09-2019.

V. Uma Sankar

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## Certificate of Completion

This is to certify that Mr/Ms **NANDUKURI DEVI** bearing roll no. 16T51R0048  
pursuing IV B Pharmacy has successfully completed value added course on  
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held from 16-09-2019 to 21-09-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **P.SRI SAI PRAKASH** bearing roll no. 16T51R0049  
pursuing IV B Pharmacy has successfully completed value added course on  
“**PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY**”  
held from 16-09-2019 to 21-09-2019.

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# Certificate of Completion

This is to certify that Mr/Ms **PAILA NIRUPA** bearing roll no. 16T51R0050 pursuing IV B Pharmacy has successfully completed value added course on “**PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY**” held from 16-09-2019 to 21-09-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **PAKKI HARIKA** bearing roll no. 16T51R0051 pursuing IV B Pharmacy has successfully completed value added course on “**PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY**” held from 16-09-2019 to 21-09-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **PAMPANI SANDHYA** bearing roll no. 16T51R0052 pursuing IV B Pharmacy has successfully completed value added course on **“PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY”** held from 16-09-2019 to 21-09-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **PATIVADA GAGANA** bearing roll no. 16T51R0053  
pursuing IV B Pharmacy has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **PONAGANTI RENUKA** bearing roll no.

16T51R0054 pursuing

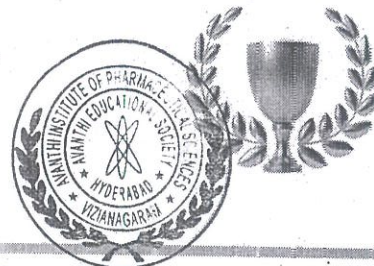
IV B Pharmacy has successfully completed value added course on

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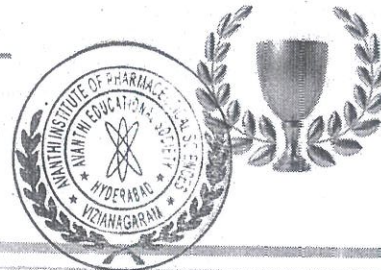
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## Certificate of Completion

This is to certify that Mr/Ms **VULIMIRI SAIPRANATI** bearing roll no. 16T51R0074 pursuing IV B Pharmacy has successfully completed value added course on **“PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY”** held from 16-09-2019 to 21-09-2019.

*V. Uma Sankar*

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## Certificate of Completion

This is to certify that Mr/Ms bearing roll no. 14T51R0043 pursuing  
IV B Pharmacy has successfully completed value added course on  
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*V. Anva Sankar*

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## Certificate of Completion

This is to certify that Mr/Ms **BOLISETTI SOWJANYA** bearing roll no. 14T51R0003 pursuing IV B Pharmacy has successfully completed value added course on **“PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY”** held from 16-09-2019 to 21-09-2019.

*V. Ilma Sankar*

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## Certificate of Completion

This is to certify that Mr/Ms **RAMESHCHNADRA K** bearing roll no. 14T51R0079 pursuing IV B Pharmacy has successfully completed value added course on “**PHARMACEUTICAL 3D PRINTING; INNOVATIVE TECHNOLOGY**” held from 16-09-2019 to 21-09-2019.

*V. Uma Shankar*

Convener



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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2019-20/04

Date: 14-10-2019

### CIRCULAR

This is to inform all the students of I M. Pharmacy that a value-added course will be conducted on the topic "Pharmacoacoustics Delivery of drugs using sound waves" from 21/10/2019 to 26/10/2019. 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

### 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. K. Raj Kiran,  
Professor.Principal



Sri Sivani College  
Of Pharmacy.

## Organizing Committee

Mrs. V. Uma Sankar, Associate Professor

Mrs. M. Madhavi Kumari, Associate Professor

Mr. A. Nanaji, Associate Professor

## Members

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



6 Days Workshop  
On

Pharmacoacoustics  
Delivery of Drugs Using  
Sound Waves

21-10-2019 to 26-10-2019

Organized By:

DEPARTMENT OF  
PHARMACY



AVANTHI INSTITUTE OF  
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SCIENCES

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

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Course Title	: Pharmacoacoustics Delivery of drugs using sound waves
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course Instructor	: Dr. K. Raj Kiran, Associate Professor, Vignan's Institute of Pharmaceutical Technology, Duvvada, Vishakhapatnam
Course Coordinator	: Ms. Y. Vishnu Vandana, Associate Professor
Dates	: 21-10-2019 to 26-10-2019
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/M. Pharm/2019/04</b>


## Objectives:

- Increase sales by 10% in the next quarter.
- Expand into two new markets by the end of the year.
- Cut operational costs by 15% within six months.
- Improve customer satisfaction scores by 20 points.
- Complete the project on time and within budget.
- Maintain regular communication with stakeholders.
- Identify and address potential project risks.
- Ensure project team collaboration and efficiency.

## Outcomes:

- Increased quarterly profits by 15%.
- Successfully launched a new product, resulting in expanded market share.
- Improved brand reputation, leading to increased customer trust and loyalty.
- Completed the project on time and within the allocated budget.
- Achieved all project milestones, meeting stakeholder expectations.
- Mitigated potential risks, ensuring a smooth project implementation.
- Students achieved higher scores in standardized tests.
- Increased student retention rates and reduced dropout rates.
- Improved overall learning outcomes in a specific subject.
- Reduced the incidence of a specific disease in the targeted population.
- Improved patient outcomes, measured by recovery rates and health indicators.



  
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## Syllabus

### 1. Introduction to Sonophoresis:

- Overview of drug delivery methods
- Importance of drug delivery in medical treatments
- Introduction to sonophoresis as a drug delivery method

### 2. Basics of ultrasound waves:

- Types of ultrasound waves used in drug delivery.
- Historical perspective of sonophoresis research

### 3. Fundamentals of Sonophoresis:

- Mechanisms of drug transport through tissues
- Micro-vibrations and cavitation in sonophoresis
- Understanding the role of ultrasound in enhancing permeability

### 4. Factors influencing drug penetration:

- Dosage considerations in sonophoretic drug delivery

### 5. Ultrasound Technologies in Drug Delivery:

- Low-frequency vs. high-frequency ultrasound
- Diagnostic ultrasound vs. therapeutic ultrasound
- Applications and limitations of different ultrasound technologies

### 6. Challenges and Advancements:

- Safety considerations in sonophoretic drug delivery
- Regulatory aspects and ethical considerations
- Recent developments and advancements in sonophoresis research

*y.v.vandana*  
Course Coordinator

*N. Neelima*  
HOD

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



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Avanthi Institute of Pharmaceutical Sciences



## 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	Pharmacoacoustics Delivery of drugs using sound waves	Break	Pharmacoacoustics Delivery of drugs using sound waves	Lunch	Pharmacoacoustics Delivery of drugs using sound waves	Pharmacoacoustics Delivery of drugs using sound waves	Break	Pharmacoacoustics Delivery of drugs using sound waves	Pharmacoacoustics Delivery of drugs using sound waves
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	Pharmacoacoustics Delivery of drugs using sound waves	Break	Pharmacoacoustics Delivery of drugs using sound waves	Lunch	Pharmacoacoustics Delivery of drugs using sound waves	Pharmacoacoustics Delivery of drugs using sound waves	Break	Pharmacoacoustics Delivery of drugs using sound waves	Pharmacoacoustics Delivery of drugs using sound waves
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FRI									
SAT									



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**CLASS: I M. PHARMACY (Pharmaceutics/Pharmaceutical Technology)**

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	Pharmacoacoustics Delivery of drugs using sound waves	Break	Pharmacoacoustics Delivery of drugs using sound waves	Lunch	Pharmacoacoustics Delivery of drugs using sound waves	Pharmacoacoustics Delivery of drugs using sound waves	Break	Pharmacoacoustics Delivery of drugs using sound waves	Pharmacoacoustics Delivery of drugs using sound waves
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WED									
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FRI									
SAT									

*Y.V. Vandana*  
Course Coordinator

*N. Weelina*  
HOD

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




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**Assessment:**

1. **What is sonophoresis in the context of drug delivery?**
  - a. Delivery of drugs through injections
  - b. Delivery of drugs using sound waves
  - c. Delivery of drugs through oral administration
  - d. Delivery of drugs via transdermal patches
2. **Which term refers to the formation and collapse of tiny bubbles in sonophoresis, creating temporary pores in cell membranes?**
  - a. Micro-vibrations
  - b. Cavitation
  - c. Oscillation
  - d. Resonance
3. **What is the main purpose of using ultrasound waves in drug delivery?**
  - a. To increase drug shelf life
  - b. To improve drug taste and flavor
  - c. To enhance drug penetration through biological barriers
  - d. To decrease the side effects of drugs
4. **Which of the following is a potential advantage of sonophoresis in drug delivery?**
  - a. Limited control over drug release
  - b. Invasive administration
  - c. Targeted delivery to specific tissues
  - d. Slow onset of action
5. **What role do micro-vibrations play in sonophoresis?**
  - a. They create temporary pores in cell membranes.
  - b. They break down drug molecules into smaller components.
  - c. They enhance drug taste and flavor.
  - d. They increase drug shelf life.
6. **Which type of ultrasound is commonly used for therapeutic applications in drug delivery?**
  - a. Low-frequency ultrasound
  - b. Diagnostic ultrasound
  - c. High-frequency ultrasound
  - d. A-mode ultrasound
7. **What are some challenges associated with sonophoretic drug delivery?**
  - a. Limited drug targeting and specificity
  - b. Rapid drug clearance from the body
  - c. Uncontrolled drug release
  - d. All of the above



  
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8. Which factor is essential for successful drug delivery using sound waves?
  - a. Increasing drug dosage
  - b. Reducing the frequency of ultrasound waves
  - c. Enhancing permeability of biological barriers
  - d. Using smaller drug particles
9. What is a potential limitation of sonophoresis in drug delivery?
  - a. High level of control over drug release
  - b. Limited applicability to various drug types
  - c. Targeted delivery to specific tissues
  - d. Slow onset of action
10. Which statement is true regarding the safety considerations in sonophoresis?
  - a. Sonophoresis is completely risk-free and has no safety concerns.
  - b. Safety considerations mainly revolve around the frequency of ultrasound waves.
  - c. There are no regulatory aspects associated with sonophoretic drug delivery.
  - d. Cavitation does not pose any potential risks in sonophoresis.

*Y.V. Vandana*  
Course Coordinator

*N. Neelima*  
HOD

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



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Reference book: "Ultrasound Technologies for Food and Bioprocessing" edited by Hao Feng

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	21-10-2019	6hrs	<b>1. Introduction to Sonophoresis:</b> <ul style="list-style-type: none"><li>• Overview of drug delivery methods</li><li>• Importance of drug delivery in medical treatments</li><li>• Introduction to sonophoresis as a drug delivery method</li></ul>
2.		22-10-2019	6hrs	<b>2. Basics of ultrasound waves:</b> <ul style="list-style-type: none"><li>• Types of ultrasound waves used in drug delivery.</li><li>• Historical perspective of sonophoresis research</li></ul>
3.		23-10-2019	6hrs	<b>3. Fundamentals of Sonophoresis:</b> <ul style="list-style-type: none"><li>• Mechanisms of drug transport through tissues</li><li>• Micro-vibrations and cavitation in sonophoresis</li><li>• Understanding the role of ultrasound in enhancing permeability</li></ul>
4.		24-10-2019	6hrs	<b>4. Factors influencing drug penetration:</b> <ul style="list-style-type: none"><li>• Dosage considerations in sonophoretic drug delivery</li></ul>
5.		25-10-2019	6hrs	<b>5. Ultrasound Technologies in Drug Delivery:</b> <ul style="list-style-type: none"><li>• Low-frequency vs. high-frequency ultrasound</li><li>• Diagnostic ultrasound vs. therapeutic ultrasound</li><li>• Applications and limitations of different ultrasound technologies</li></ul>





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6.		26-10-2019	6hrs	<b>6. Challenges and Advancements:</b> <ul style="list-style-type: none"><li>• Safety considerations in sonophoretic drug delivery</li><li>• Regulatory aspects and ethical considerations</li><li>• Recent developments and advancements in sonophoresis research</li></ul>
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*Y. V. Vandana*  
Course Coordinator

*N. Veerappa*  
HOD

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



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Date : 21-10-2019 to 26-10-2019  
No. of Students Enrolled : 16  
Subject : Pharmacoacoustics Delivery of drugs using sound waves  
I M. Pharmacy (Pharmaceutical Analysis)

S No.	Roll No.	Student Name
1	19T51S1601	Chelli Bhagya Lakshmi
2	19T51S1602	Dusi Sudheer Kumar
3	19T51S1603	G Hemanta Sai
4	19T51S1604	Gadiraju Harika Sai Sudha
5	19T51S1605	Gantana Chandramouli
6	19T51S1606	K Md Afroz Ahmed
7	19T51S1607	Kona Sandya
8	19T51S1608	Nakka Atchyuta Anupama
9	19T51S1609	Pallanti Venkata Lakshmi Lavanya Durga Bhavani
10	19T51S1610	Pilli Pushapanjali
11	19T51S1611	Ramagoni Deepthi Maheswari
12	19T51S1612	Rayapaneni Jitendra
13	19T51S1613	Sanchana Vanita
14	19T51S1614	Sunaina A Kodalkar
15	19T51S1615	Tetala Kavya
16	19T51S1616	Vaskuri Devi Naga Satya Kalyani

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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

*N. Neeha*  
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Date : 21-10-2019 to 26-10-2019  
No. of Students Enrolled : 29  
Subject : Delivery of drugs using sound waves  
I M. Pharmacy (Pharmaceutics/Pharmaceutical Technology)

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
17	19T51S1101	Bagadhi Santhoshi Kumari
18	19T51S1102	Bhogapuram Gayatri

  
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20	19T51S1104	Kolli Bhanu Kumari
21	19T51S1105	Madda Junnu
22	19T51S1106	Nemala Chandini
23	19T51S1107	O Narasimha
24	19T51S1108	Padala Srujana
25	19T51S1109	Patnala Venkata Satya Kumari
26	19T51S1110	Sabbavarapu Anuradha
27	19T51S1111	Somula Venkata Durga
28	19T51S1112	Yanda Purna Naga Vijaya Lakshmi
29	19T51S1113	Yellapu Renuka Pratyusha

*Y.V. Vandana*  
Course Coordinator

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HOD

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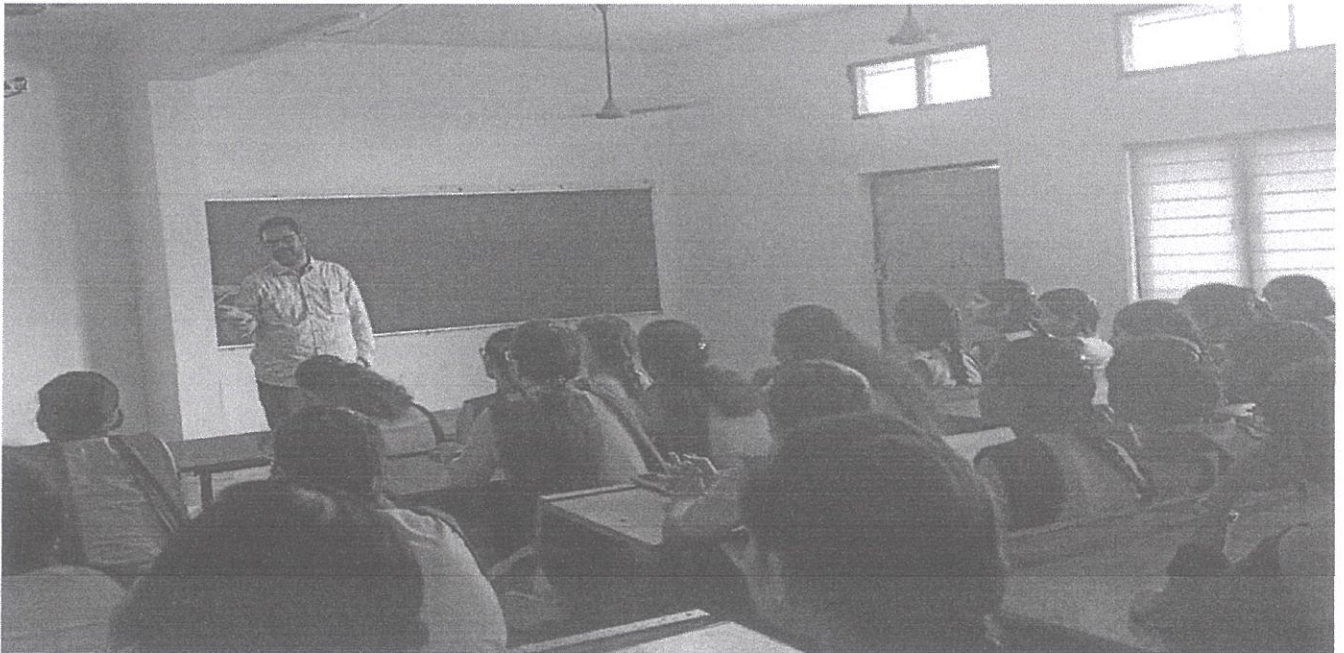
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The students of 1<sup>st</sup> year M. Pharmacy certificate program attending on  
**“PHARMACOACOUSTICS DELIVERY OF DRUGS USING SOUND WAVES”** by the  
Associate Professor Dr. K. Raj Kiran, Vignan’s Institute of Pharmaceutical Technology

*y.v.vandana*  
Course Coordinator

*tr*  
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*N-Neelima*  
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3	19T51S0603	Lankalapalli Harshasree	✓	✓	✓	✓	✓	✓
4	19T51S0604	Matta Ramalakshmi	✓	✓	✓	✓	✓	✓
5	19T51S0605	Palla Harika	✓	A	✓	✓	✓	✓
6	19T51S0606	Polaki Mounika	A	A	A	A	A	A
7	19T51S0607	Reshmi Afreen	✓	✓	✓	✓	✓	✓
8	19T51S0608	Rohit Godia	✓	✓	✓	✓	✓	✓
9	19T51S0609	Sirasapalli Pavani	✓	✓	✓	✓	✓	✓
10	19T51S0610	Suvvari Santhoshi	✓	✓	✓	✓	✓	✓
11	19T51S0611	Vijmireddy Gowthami	✓	✓	A	✓	✓	✓
12	19T51S0612	Vittat Navya	✓	✓	✓	✓	A	✓

*Y.V. Vandana*  
Course Coordinator

*N. Neelima*  
HOD

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3	19T51S0303	Bukkuru Sravani	✓	✓	✓	✓	A	✓
4	19T51S0304	Gudla Usha Rani	✓	✓	✓	✓	✓	✓
5	19T51S0305	Kedarisetty Sahithi Sampadha	✓	✓	✓	✓	✓	✓
6	19T51S0306	Lankapalli Daniel	✓	✓	✓	✓	✓	✓
7	19T51S0307	Maddibhatla Venkata Gayathri	✓	✓	✓	A	✓	✓
8	19T51S0308	Mathe Divyavani	✓	✓	✓	✓	✓	✓
9	19T51S0309	Nammi Sirisha	✓	✓	✓	✓	✓	✓
10	19T51S0310	P Maneesha Laxmi	✓	✓	✓	✓	A	✓
11	19T51S0311	Pragada Vinay	✓	✓	✓	✓	✓	✓
12	19T51S0312	Pranitha Panda	✓	✓	✓	A	✓	✓
13	19T51S0313	S Deepthi	✓	✓	✓	✓	✓	✓
14	19T51S0314	Thatipudi Bhargavi	✓	✓	✓	✓	✓	✓
15	19T51S0315	Turupada Sunandhini	✓	✓	✓	✓	A	✓
16	19T51S0316	Vennela Lavanya	✓	✓	✓	✓	✓	✓
17	19T51S1101	Bagadhi Santhoshi Kumari	✓	✓	✓	A	✓	✓
18	19T51S1102	Bogapurapu Gayatri	✓	✓	✓	✓	✓	✓

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27	19T51S1111	Somula Venkata Durga	✓	✓	✓	✓	✓	✓
28	19T51S1112	Yanda Purna Naga Vijaya Lakshmi	✓	✓	A	✓	✓	✓
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*Y.V. Vandana*  
Course Coordinator

*N. Neelima*  
HOD

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12	19T51S1612	Rayapaneni Jitendra	✓	✓	✓	✓	✓	✓
13	19T51S1613	Sanchana Vanita	✓	✓	✓	A	✓	✓
14	19T51S1614	Sunaina A Kodalkar	✓	✓	✓	A	✓	✓
15	19T51S1615	Tetala Kavya	✓	✓	✓	✓	✓	✓
16	19T51S1616	Vaskuri Devi Naga Satya Kalyani	✓	✓	✓	A	✓	✓

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Course Coordinator

*N. Neelima*  
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2	19T51S0602	Kudurella Sri Mounika	36	100%
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4	19T51S0604	Matta Ramalakshmi	36	100%
5	19T51S0605	Palla Harika	30	83%
6	19T51S0606	Polaki Mounika	Nil	0%
7	19T51S0607	Reshmi Afreen	36	100%
8	19T51S0608	Rohit Godia	36	100%
9	19T51S0609	Sirasapalli Pavani	36	100%
10	19T51S0610	Suvvari Santhoshi	36	100%
11	19T51S0611	Vijmireddy Gowthami	30	83%
12	19T51S0612	Vittat Navya	30	83%

*Y.V. Vandana*  
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*[Signature]*  
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Date : 21-10-2019 to 26-10-2019  
No. of Students Enrolled : 29  
Subject : Pharmacoacoustics Delivery of drugs using sound waves  
I M. Pharmacy (Pharmaceutics/Pharmaceutical Technology)

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	19T51S0301	Bali Varshini	36	100%
2	19T51S0302	Bandaru Durga Spandana	30	83%
3	19T51S0303	Bukkuru Sravani	30	83%
4	19T51S0304	Gudla Usha Rani	36	100%
5	19T51S0305	Kedarisetty Sahithi Sampadha	36	100%
6	19T51S0306	Lankapalli Daniel	36	100%
7	19T51S0307	Maddibhatla Venkata Gayathri	30	83%
8	19T51S0308	Mathe Divyavani	36	100%
9	19T51S0309	Nammi Sirisha	36	100%
10	19T51S0310	P Maneesha Laxmi	30	83%
11	19T51S0311	Pragada Vinay	36	100%
12	19T51S0312	Pranitha Panda	30	83%
13	19T51S0313	S Deepthi	36	100%
14	19T51S0314	Thatipudi Bhargavi	36	100%
15	19T51S0315	Turupada Sunandhini	30	83%
16	19T51S0316	Vennela Lavanya	36	100%
17	19T51S1101	Bagadhi Santhoshi Kumari	30	83%



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18	19T51S1102	Bogapurapu Gayatri	36	100%
19	19T51S1103	Chukka Chandrakala	Nil	0%
20	19T51S1104	Kolli Bhanu Kumari	36	100%
21	19T51S1105	Madda Junnu	36	100%
22	19T51S1106	Nemala Chandini	36	100%
23	19T51S1107	O Narasimha	36	100%
24	19T51S1108	Padala Srujana	36	100%
25	19T51S1109	Patnala Venkata Satya Kumari	Nil	0%
26	19T51S1110	Sabbavarapu Anuradha	36	100%
27	19T51S1111	Somula Venkata Durga	36	100%
28	19T51S1112	Yanda Purna Naga Vijaya Lakshmi	36	100%
29	19T51S1113	Yellapu Renuka Pratyusha	36	100%

*Y.V. Vandana*  
Course Coordinator

*N. Weelina*  
HOD

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



*[Signature]*  
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Date : 21-10-2019 to 26-10-2019  
No. of Students Enrolled : 16  
Subject : Pharmacoacoustics Delivery of drugs using sound waves  
I M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	19T51S1601	Chelli Bhagya Lakshmi	36	100%
2	19T51S1602	Dusi Sudheer Kumar	36	100%
3	19T51S1603	G Hemanta Sai	30	83%
4	19T51S1604	Gadiraju Harika Sai Sudha	36	100%
5	19T51S1605	Gantana Chandramouli	24	66%
6	19T51S1606	K Md Afroz Ahmed	36	100%
7	19T51S1607	Kona Sandya	36	100%
8	19T51S1608	Nakka Atchyuta Anupama	30	83%
9	19T51S1609	Pallanti Venkata Lakshmi Lavanya Durga Bhavani	36	100%
10	19T51S1610	Pilli Pushapanjali	36	100%
11	19T51S1611	Ramagoni Deepthi Maheswari	30	83%
12	19T51S1612	Rayapaneni Jitendra	36	100%
13	19T51S1613	Sanchana Vanita	30	83%
14	19T51S1614	Sunaina A Kodalkar	30	83%
15	19T51S1615	Tetala Kavya	36	100%
16	19T51S1616	Vaskuri Devi Naga Satya Kalyani	30	83%

*Y.V. Vandana*  
Course Coordinator



*[Signature]*  
PRINCIPAL

*N. Deeksha*  
HOD

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## Certificate of Completion

This is to certify that Mr/Ms **VITTAT NAVYA** bearing roll no. 19T51S0612 pursuing I M Pharmacy has successfully completed value added course on  
**“PHARMACOACOUSTICS- DELIVERY OF DRUGS USING SOUND WAVES”**  
held from 21-10-2019 to 26-10-2019.

Convener



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## Certificate of Completion

This is to certify that Mr/Ms **NEMALA CHANDINI** bearing roll no. 19T51S1106  
pursuing

I M Pharmacy has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **O NARASIMHA** bearing roll no. 19T51S1107 pursuing I M Pharmacy has successfully completed value added course on  
**“PHARMACOACOUSTICS- DELIVERY OF DRUGS USING SOUND WAVES”**  
held from 21-10-2019 to 26-10-2019.

*V. Lakshmi*

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## Certificate of Completion

This is to certify that Mr/Ms **PADALA SRUJANA** bearing roll no. 19T51S1108

pursuing

I M Pharmacy has successfully completed value added course on

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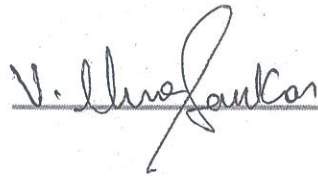
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## Certificate of Completion

This is to certify that Mr/Ms **YELLAPU RENUKA PRATYUSHA** bearing  
roll no. 19T51S1113 pursuing  
I M Pharmacy has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **VIJMIREDDY GOWTHAMI** bearing roll no.

19F51S0611 pursuing

I M Pharmacy has successfully completed value added course on

**“PHARMACOACOUSTICS- DELIVERY OF DRUGS USING SOUND WAVES”**

held from 21-10-2019 to 26-10-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **SUVVARI SANTHOSHI** bearing roll no.19T51S0610 pursuing I M Pharmacy has successfully completed value added course on **“PHARMACOACOUSTICS- DELIVERY OF DRUGS USING SOUND WAVES”** held from 21-10-2019 to 26-10-2019.

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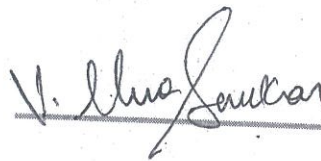
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## Certificate of Completion

This is to certify that Mr/Ms **SIRASAPALLI PAVANI** bearing roll no.  
19T51S0609 pursuing

I M Pharmacy has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **ROHIT GODIA** bearing roll no. 19T51S0608 pursuing  
I M Pharmacy has successfully completed value added course on  
“**PHARMACOACOUSTICS- DELIVERY OF DRUGS USING SOUND WAVES**”  
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## Certificate of Completion

This is to certify that Mr/Ms **RESHMI AFREEN** bearing roll no. 19T51S0607  
pursuing I M Pharmacy has successfully completed value added course on  
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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2019-20/05

Date: 02-12-2019

### CIRCULAR

This is to inform all the students of III B. Pharmacy that a value-added course will be conducted on the topic, "Advancements in analytical techniques for drug discovery & development" from 09/12/2019 to 14/12/2019 interested students are required to sign-up for the above mentioned course with "MR. P. CHIRANJEEVI" Professor in the Department of Pharmacy.



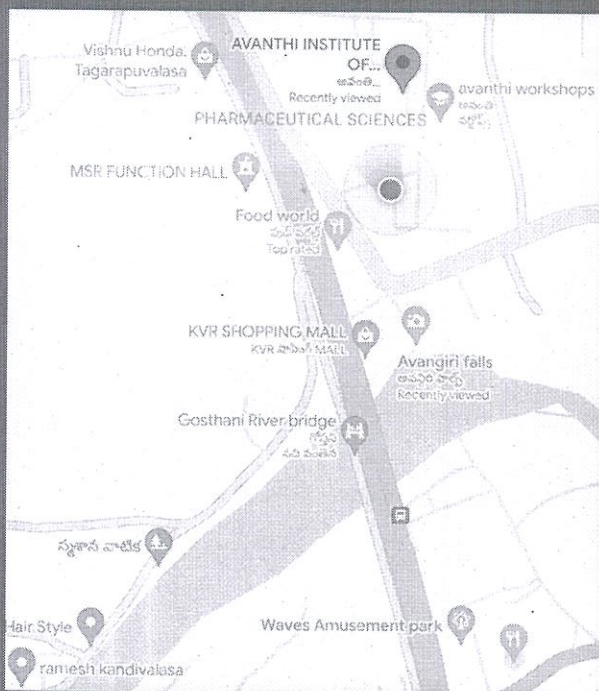
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## Institution

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



**Dr. P. Chinjeevi,**  
Professor,

Vignan Institute of Pharmaceutical Sciences

### Organizing Committee

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

Mrs. B. Chaitanya, Associate  
Professor

Ms. Y. Vishnu Vandana, Associate  
Professor

### Members

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



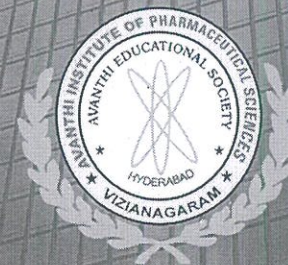
## 6 Days Workshop On

## Advancements in Analytical Techniques for Drug Discovery and Development

09/12/2019 - 14/12/2019

Organized By:

DEPARTMENT OF  
PHARMACY PRACTICE



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CHERUKUPALLY (VILLAGE), NEAR  
TAGARAPUVALASA BRIDGE,  
BHOGAPURAM(MANDAL), VIZIANAGARAM

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Course Title	: Advancements in analytical techniques for drug discovery & development
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course Instructor	: Dr. P. Chiranjeevi, Professor, Vignan's Institute of Pharmaceutical Sciences, Duvvada
Course Coordinator	: Mr. A. Nanaji, Associate Professor
Dates	: 09-12-2019 to 14-12-2019
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/B. Pharm/2019/05</b>

## Objectives:

- Chromatographic techniques
- Spectroscopic methods
- Mass spectroscopy
- NMR
- Advancements in imaging
- HTS
- Bioanalytical methods

## Outcomes:

- Integration
- Ethical responsibility
- Research
- Regulatory frameworks
- Analytical techniques



  
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## Syllabus

### 1. Introduction :

- Introduction
- Importance
- Functions
- Chromatographic techniques in drug development

### 2. Spectroscopic Methods for Drug Characterization:

- Fundamentals of spectroscopy
- Applications
- NMR spectroscopy in drug development
- Hands on NMR data interpretation

### 3. Mass Spectrometry in Drug Analysis:

- Principles of Mass Spectrometry
- Applications in Drug Identification and Quantification
- Advanced Mass Spectrometry Techniques
- Practical Mass Spectrometry Analysis

### 4. Imaging Techniques and In Vivo Studies:

- Introduction to Imaging Techniques (MRI, PET, CT)
- Applications in In Vivo Drug Distribution Studies
- Case Studies: Imaging in Drug Development

### 5. High-Throughput Screening (HTS) and Bioanalytical Methods:

- Principles of High-Throughput Screening (HTS)
- Automation and Robotics in HTS
- Bioanalytical Methods (ELISA, PCR, Immunoassays)
- Applications

### 6. Data Analysis, Integration, and Regulatory Compliance:

- Data Analysis and Interpretation Techniques
- Integration of Analytical Data for Comprehensive Understanding
- Regulatory Compliance in Analytical Techniques
- Validation of Analytical Methods in Drug Development

*Anane*  
Course Coordinator



*Principals*  
PRINCIPAL

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Cherukupally (V), Bhogapuram Mandal

*N. Neelima*  
HOD

Avanthi Institute of Pharmaceutical Sciences  
CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.

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Avanthi Institute of Pharmaceutical Sciences



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## 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	Advancements in analytical techniques for drug discovery & development	Break	Advancements in analytical techniques for drug discovery & development	Lunch	Advancements in analytical techniques for drug discovery & development	Advancements in analytical techniques for drug discovery & development	Break	Advancements in analytical techniques for drug discovery & development	Advancements in analytical techniques for drug discovery & development
TUE									
WED									
THU									
FRI									
SAT									

*Anand*  
Course Coordinator

*N. Deelina*  
HOD

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



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Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162.

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

Reference book: "Analytical Chemistry in the Exploration, Mining, and Processing of Materials" by James D. Ingle Jr. and Stanley R. Crouch

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	09-12-2019	6hrs	<b>1. Introduction :</b> <ul style="list-style-type: none"><li>• Introduction</li><li>• Importance</li><li>• Functions</li><li>• Chromatographic techniques in drug development</li></ul>
2.		10-12-2019	6hrs	<b>2. Spectroscopic Methods for Drug Characterization:</b> <ul style="list-style-type: none"><li>• Fundamentals of spectroscopy</li><li>• Applications</li><li>• NMR spectroscopy in drug development</li><li>• Hands on NMR data interpretation</li></ul>
3.		11-12-2019	6hrs	<b>3. Mass Spectrometry in Drug Analysis:</b> <ul style="list-style-type: none"><li>• Principles of Mass Spectrometry</li><li>• Applications in Drug Identification and Quantification</li><li>• Advanced Mass Spectrometry Techniques</li><li>• Practical Mass Spectrometry Analysis</li></ul>
4.		12-12-2019	6hrs	<b>4. Imaging Techniques and In Vivo Studies:</b> <ul style="list-style-type: none"><li>• Introduction to Imaging Techniques (MRI, PET, CT)</li><li>• Applications in In Vivo Drug Distribution Studies</li><li>• Case Studies: Imaging in Drug Development</li></ul>



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5.		13-12-2019	6hrs	<b>5. High-Throughput Screening (HTS) and Bioanalytical Methods:</b> <ul style="list-style-type: none"><li>• Principles of High-Throughput Screening (HTS)</li><li>• Automation and Robotics in HTS</li><li>• Bioanalytical Methods (ELISA, PCR, Immunoassays)</li><li>• Applications</li></ul>
6.		14-12-2019	6hrs	<b>6. Data Analysis, Integration, and Regulatory Compliance:</b> <ul style="list-style-type: none"><li>• Data Analysis and Interpretation Techniques</li><li>• Integration of Analytical Data for Comprehensive Understanding</li><li>• Regulatory Compliance in Analytical Techniques</li><li>• Validation of Analytical Methods in Drug Development</li></ul>

*Anave*  
Course Coordinator

*N. Deelina*  
HOD

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



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## Assessment:

- 1. What is the primary goal of analytical techniques in drug discovery and development?**
  - a. Enhancing taste of drugs
  - b. Increasing drug shelf life
  - c. Providing accurate and precise data
  - d. Reducing drug production costs
- 2. Which analytical technique is commonly used for separating and analyzing complex mixtures in drug development?**
  - a. NMR spectroscopy
  - b. Mass spectrometry
  - c. High-Performance Liquid Chromatography (HPLC)
  - d. UV-Vis spectroscopy
- 3. What does NMR stand for in the context of drug development?**
  - a. Nuclear Magnetic Resonance
  - b. New Medicinal Research
  - c. Nanomaterials in Medicine
  - d. National Medical Registry
- 4. Which spectroscopic technique is suitable for studying the structural composition of drug molecules?**
  - a. Infrared (IR) spectroscopy
  - b. Ultraviolet-Visible (UV-Vis) spectroscopy
  - c. Mass spectrometry
  - d. High-Performance Liquid Chromatography (HPLC)
- 5. In drug analysis, what does HPLC primarily focus on?**
  - a. Molecular weight determination
  - b. Separation and quantification of compounds
  - c. In vivo imaging
  - d. Genetic analysis
- 6. What is the main application of mass spectrometry in drug development?**
  - a. Identifying and quantifying drug compounds
  - b. Measuring drug pH levels
  - c. Determining drug solubility
  - d. Assessing drug color stability
- 7. Which imaging technique is commonly used for visualizing in vivo drug distribution in the body?**
  - a. Computed Tomography (CT)
  - b. Nuclear Magnetic Resonance (NMR)
  - c. Positron Emission Tomography (PET)
  - d. Ultrasonography



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8. What is a key feature of High-Throughput Screening (HTS) in drug discovery?
  - a. Slow and manual processing
  - b. Automation and rapid testing of large compound libraries
  - c. Low sensitivity to drug concentrations
  - d. Limited applicability to diverse drug targets
9. Which bioanalytical method is commonly used for detecting and quantifying specific proteins in drug development?
  - a. Polymerase Chain Reaction (PCR)
  - b. Enzyme-Linked Immunosorbent Assay (ELISA)
  - c. Gas Chromatography (GC)
  - d. Mass spectrometry
10. Why is regulatory compliance essential in analytical techniques for drug development?
  - a. To increase production costs
  - b. To limit technological advancements
  - c. To ensure the reliability and accuracy of analytical results
  - d. To hinder the drug approval process

*Anave*  
Course Coordinator

*N. Deelina*  
HOD

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Bhogapuram (M), Vizianagaram Dist



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Date : 09-12-2019 to 14-12-2019  
No. of Students Enrolled : 79  
Subject : "Advancements in analytical techniques for drug discovery & development"  
III B. Pharmacy

S. No	Roll No.	Student Name
1	17T51R0001	Adari Karishma Vara Sai Venkata Laxmi
2	17T51R0002	Addagalla Mohini
3	17T51R0003	Adibhatla Gowri Teja Sree
4	17T51R0004	Allu Sudheer
5	17T51R0006	Bavarpu Durga Prasad
6	17T51R0007	Bendalam Laya
7	17T51R0008	Billakurthi Jyothsna
8	17T51R0009	Vudata Rachana
9	17T51R0010	Bonangi Saidevi
10	17T51R0011	Bondu Durgaprasad
11	17T51R0012	Bonila Anitha
12	17T51R0013	Bonu Priyanka
13	17T51R0014	Buddharaju Lekha
14	17T51R0015	Byreddy Samyuktha
15	17T51R0016	Chokkakula Jyothi
16	17T51R0018	Dasari Saibhargavi
17	17T51R0019	Dharmavarapu Abhiram
18	17T51R0020	Duvvula Srekanth 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	Kalisetti 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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41	17T51R0043	Meka Pavan Kalyan
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

*Anand*  
Course Coordinator



*[Signature]*  
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*N. Neelina*  
HOD

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The students of 4<sup>th</sup> year Pharm. D certificate program attending “**ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY & DEVELOPMENT**” by the Professor Dr. Chiranjeevi, Vignan’s Institute of Pharmaceutical Sciences

*Ananya*  
**Course Coordinator**

*W. Srinivas*  
**HOD**

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Subject : "Advancements in analytical techniques for drug discovery & development"  
III B. Pharmacy

S. No	Roll No.	Student Name	19/12/19	20/12/19	21/12/19	22/12/19	23/12/19	24/12/19
1	17T51R0001	Adari Karishma Vara Sai Venkata Laxmi	A	A	A	A	A	A
2	17T51R0002	Addagalla Mohini	✓	✓	✓	✓	✓	✓
3	17T51R0003	Adibhatla Gowri Teja Sree	✓	✓	✓	A	✓	✓
4	17T51R0004	Allu Sudheer	A	A	A	✓	✓	✓
5	17T51R0006	Bavarpu Durga Prasad	✓	✓	✓	✓	✓	✓
6	17T51R0007	Bendalam Laya	✓	✓	✓	✓	✓	✓
7	17T51R0008	Billakurthi Jyothsna	✓	A	✓	✓	✓	✓
8	17T51R0009	Vudata Rachana	✓	✓	✓	✓	✓	✓
9	17T51R0010	Bonangi Sai devi	✓	A	✓	✓	✓	✓
10	17T51R0011	Bondu Durga prasad	✓	✓	✓	✓	A	✓
11	17T51R0012	Bonila Anitha	✓	✓	A	✓	✓	✓
12	17T51R0013	Bonu Priyanka	✓	A	✓	✓	✓	✓
13	17T51R0014	Buddharaju Lekha	✓	✓	✓	✓	✓	✓
14	17T51R0015	Byreddy Samyuktha	✓	A	✓	✓	✓	A
15	17T51R0016	Chokkakula Jyothi	✓	✓	A	✓	✓	✓
16	17T51R0018	Dasari Sai bhargavi	✓	✓	✓	✓	✓	✓
17	17T51R0019	Dharmavarapu Abhiram	✓	✓	✓	✓	✓	✓
18	17T51R0020	Duvvana Sreekanth Dora	✓	✓	✓	✓	A	✓

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

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

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63	17T51R0066	Ruttala Manjusha	A	A	A	✓	A	A
64	17T51R0067	Sallapudi Srivalli	✓	✓	✓	✓	✓	✓
65	17T51R0068	Sankurubothu Kedhashritha	✓	✓	✓	✓	✓	✓
66	17T51R0070	Savarapu Yesubabu	✓	✓	✓	✓	A	A
67	17T51R0071	Seerapu Esthere Rani	✓	✓	✓	A	✓	✓
68	17T51R0072	Siddani Sruthi Suvarchala	✓	✓	✓	✓	✓	✓
69	17T51R0073	Sowdiwada Praneetha	✓	✓	✓	✓	✓	✓
70	17T51R0074	Sri Siva RupaChikkala	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓
78	18T55R0001	Reshma	✓	✓	✓	✓	✓	✓
79	18T55R0002	P Bhuvaneshwari	A	✓	✓	A	✓	✓

*Anand*  
Course Coordinator

*N. Neelima*  
HOD

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

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Date : 09-12-2019 to 14-12-2019  
No. of Students Enrolled : 79  
Subject : "Advancements in analytical techniques for drug discovery & development"  
III B. Pharmacy

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	17T51R0001	Adari Karishma Vara Sai Venkata Laxmi	Nil	0%
2	17T51R0002	Addagalla Mohini	36	100%
3	17T51R0003	Adibhatla Gowri Teja Sree	30	83%
4	17T51R0004	Allu Sudheer	18	50%
5	17T51R0006	Bavarpu Durga Prasad	36	100%
6	17T51R0007	Bendalam Laya	36	100%
7	17T51R0008	Billakurthi Jyothsna	30	83%
8	17T51R0009	Vudata Rachana	36	100%
9	17T51R0010	Bonangi Saidevi	30	83%
10	17T51R0011	Bondu Durgaprasad	30	83%
11	17T51R0012	Bonila Anitha	30	83%
12	17T51R0013	Bonu Priyanka	30	83%
13	17T51R0014	Buddharaju Lekha	36	100%
14	17T51R0015	Byreddy Samyuktha	24	66%
15	17T51R0016	Chokkakula Jyothi	30	83%
16	17T51R0018	Dasari Saibhargavi	36	100%
17	17T51R0019	Dharmavarapu Abhiram	36	100%



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



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40	17T51R0042	Matta Priyanka	36	100%
41	17T51R0043	Meka Pavan Kalyan	36	100%
42	17T51R0044	Meka Vamsika	30	83%
43	17T51R0046	Migada Durga Devi	36	100%
44	17T51R0047	Mindi Pavani	6	16%
45	17T51R0048	Mudadla Pavani	36	100%
46	17T51R0049	Mulli Sai Kiran	36	100%
47	17T51R0050	Musinana Reshma	36	100%
48	17T51R0051	Nagireddi Mounika	30	83%
49	17T51R0052	Padala Anil	36	100%
50	17T51R0053	Palaka Madhu	30	83%
51	17T51R0054	Palli Renuka	36	100%
52	17T51R0055	Velugula Mounica Sri	36	100%
53	17T51R0056	Parveen	30	83%
54	17T51R0057	Pollai Santhosh	36	100%
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	36	100%
59	17T51R0062	Ratnala Sharmila	30	83%
60	17T51R0063	Reddy Bhagya Laxmi	36	100%
61	17T51R0064	Rongali Vandana	36	100%



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62	17T51R0065	Ruttala Manikatha Swami	36	100%
63	17T51R0066	Ruttala Manjusha	6	16%
64	17T51R0067	Sallapudi Srivalli	36	100%
65	17T51R0068	Sankurubothu Kedhashritha	36	100%
66	17T51R0070	Savarapu Yesubabu	24	66%
67	17T51R0071	Seerapu Esthere Rani	30	83%
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	30	83%
78	18T55R0001	Reshma	36	100%
79	18T55R0002	P Bhuvaneshwari	24	66%

  
Course Coordinator



  
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HOD

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## Certificate of Completion

This is to certify that Mr/Ms **KARRI APARNA** bearing roll no. 17T51R0033 pursuing  
III B Pharmacy has successfully completed value added course on  
“**ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND  
DEVELOPMENT**”  
held from 09-12-2019 to 14-12-2019.

V. Ungankar

Convener



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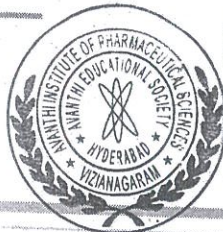
## Certificate of Completion

This is to certify that Mr/Ms **RONGALI VANDANA** bearing roll no. 17T51R0064 pursuing III B Pharmacy has successfully completed value added course on  
“**ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND DEVELOPMENT**”

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*V. Anjalankar*

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## Certificate of Completion

This is to certify that Mr/Ms **RUTTALA MANIKATHA SWAMI** bearing roll no. 17T51R0065 pursuing III B Pharmacy has successfully completed value added course on “**ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND DEVELOPMENT**”

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*V. Uma Sankar*

Convener



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## Certificate of Completion

This is to certify that Mr/Ms **RUTTALA MANJUSHA** bearing roll no. 17T51R0066 pursuing III B Pharmacy has successfully completed value added course on **“ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND DEVELOPMENT”**

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## Certificate of Completion

This is to certify that Mr/Ms **SALLAPUDI SRIVALLI** bearing roll no. 17T51R0067 pursuing III B Pharmacy has successfully completed value added course on **“ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND DEVELOPMENT”**

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V. Uma Sankar

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## Certificate of Completion

This is to certify that Mr/Ms **SANKURUBOTHU KEDHASHRITHA**  
bearing roll no. 17T51R0068 pursuing III B Pharmacy has successfully completed value added  
course on

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## Certificate of Completion

This is to certify that Mr/Ms **SUVVADA SWATHI** bearing roll no. 17T51R0076  
pursuing III B Pharmacy has successfully completed value added course on  
“**ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND  
DEVELOPMENT**”

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V. Muralikar

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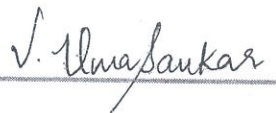
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## Certificate of Completion

This is to certify that Mr/Ms **TAMMENA APARNA** bearing roll no. 17T51R0077  
pursuing III B Pharmacy has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **YELURU MONIKA** bearing roll no. 17T51R0078  
pursuing III B Pharmacy has successfully completed value added course on  
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V. Uma Sankar

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## Certificate of Completion

This is to certify that Mr/Ms **TURPATI PRAMEELA** bearing roll no. 17T51R0079  
pursuing III B Pharmacy has successfully completed value added course on  
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*V. Uma Sankar*

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## Certificate of Completion

This is to certify that Mr/Ms **UPPADA SURYAM** bearing roll no. 17T51R0080  
pursuing III B Pharmacy has successfully completed value added course on  
**“ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND  
DEVELOPMENT”**  
held from 09-12-2019 to 14-12-2019.

*V. Uma Sankar*

Convener



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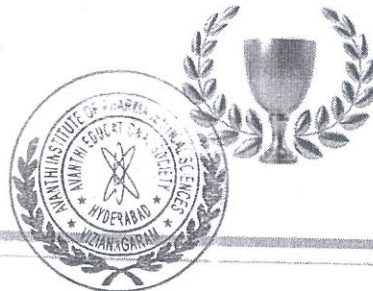
## Certificate of Completion

This is to certify that Mr/Ms **UPPADA VASANTHA** bearing roll no. 17T51R0081  
pursuing III B Pharmacy has, successfully completed value added course on  
“**ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND  
DEVELOPMENT**”

held from 09-12-2019 to 14-12-2019.

*V. Uma Sankar*

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## Certificate of Completion

This is to certify that Mr/Ms **VANTHALA PRIYANKA** bearing roll no. 17T51R0082 pursuing III B Pharmacy has successfully completed value added course on “**ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND DEVELOPMENT**”

held from 09-12-2019 to 14-12-2019.

*V. Uma Sankar*

Convener



*[Signature]*

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Avanthi Institute of Pharmaceutical Sciences

Cherukupally (V), Bhogapuram Mandal

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## Certificate of Completion

This is to certify that Mr/Ms **RESHMA** bearing roll no. 18T55R0001 pursuing  
III B Pharmacy has successfully completed value added course on  
**“ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND  
DEVELOPMENT”**

held from 09-12-2019 to 14-12-2019.

*V. UmaSankar*

Convener



*[Signature]*

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## Certificate of Completion

This is to certify that Mr/Ms **P BHUVANESWARI** bearing roll no. 18T55R0002  
pursuing III B Pharmacy has successfully completed value added course on  
“**ADVANCEMENTS IN ANALYTICAL TECHNIQUES FOR DRUG DISCOVERY AND  
DEVELOPMENT**”

held from 09-12-2019 to 14-12-2019.

*V. Uma Sankar*

Convener



*[Signature]*

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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2019-20/06

Date: 09-12-2019

### CIRCULAR

This is to inform all the students of I B. Pharmacy that a value-added course will be conducted on the topic "Advances of anatomy & physiology in human health care" from 16/12/2019 to 21/12/2019 interested students are required to sign-up for the above mentioned course with "MRS. B. ARUNA" Assistant Professor in the Department of Pharmacy.

  
Principal

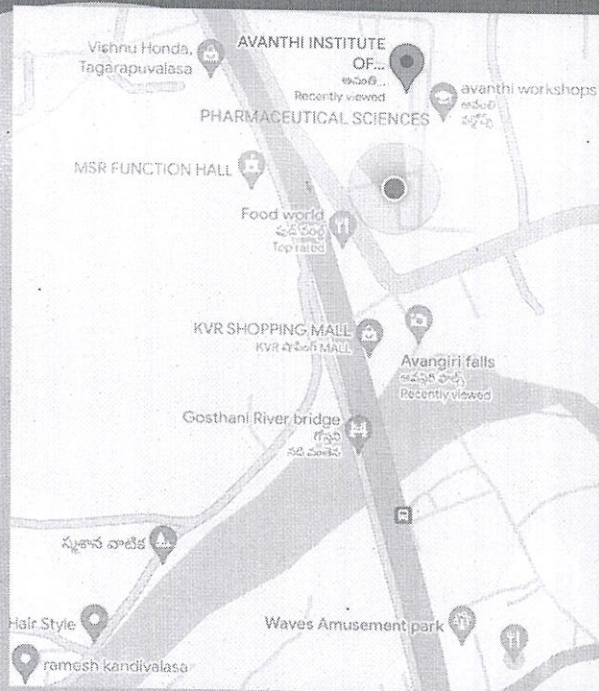


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**Vizianagaram Dt., - 531162**

## 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

Mrs. B. Aruna,  
Assistant Professor,



Emanuel College  
Of Pharmacy.

## Organizing Committee

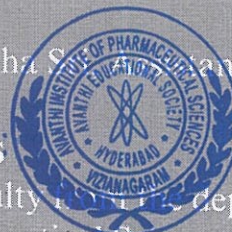
M. Divya, Assistant Professor

Mr. B. Yerni Kumar, Assistant Professor

Dr. D. Subha Sankar, Assistant Professor

## Members

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



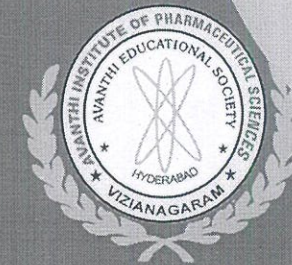
## 6 Days Workshop On

## Advances of Anatomy and Physiology in Human Health Care

16/12/2019 - 21/12/2019

## Organized By:

## DEPARTMENT OF PHARMACY PRACTICE



## AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Course Title	: Advances of anatomy & physiology in human health care
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course Instructor	: Mrs. B. Aruna, Assistant Professor, Emmanuel Collage of Pharmacy, Maharajupeta, Cherukupalli
Course Coordinator	: Ms. B. Bhagya sri, Assistant Professor
Dates	: 16-12-2019 to 21-12-2019
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/B. Pharm/2019/06</b>

## Objectives:

- Understanding of Human Anatomy and Physiology
- Integration
- Clinical relevance
- Interdisciplinary perspective

## Outcomes:

- Critical thinking
- Problem solving
- Research skills
- Clinical decision – Making



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## Syllabus

### 1. Foundations of Anatomy and Physiology:

- Introduction
- History
- Cellular anatomy and physiology
- Advances in cell biology and their implications

### 2. Systems Integration and Homeostasis:

- Integration of organ systems
- Homeostasis and its role
- Case studies
- Advanced concepts
- Modern diagnostic techniques

### 3. Advances in Neuroanatomy and Physiology:

- Exploration of the nervous system
- Neurotransmitters, synaptic transmission and neural networks
- Research in neuroscience
- Clinical applications

### 4. Molecular and Cellular Advances:

- Molecular basis of cellular functions
- Advances in genetics and genomics
- Role of molecular biology
- Emerging technologies

### 5. Integrative Physiology and Disease Mechanisms:

- Integration of physiological systems
- Case studies
- Immune system physiology
- Advances in immunology

### 6. Future Directions and Practical Applications:

- Exploration of emerging trends in anatomy and physiology
- Ethical considerations
- Practical applications

*B. Blogy Devi*  
Course Coordinator



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*N. Neelina*  
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	Advances of anatomy & physiology in human health care	Break	Advances of anatomy & physiology in human health care	Lunch	Advances of anatomy & physiology in human health care	Advances of anatomy & physiology in human health care	Break	Advances of anatomy & physiology in human health care	Advances of anatomy & physiology in human health care
TUE									
WED									
THU									
FRI									
SAT									

*B. Blogyasa*  
Course Coordinator

*N. Weelie*  
HOD

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Bhogapuram (M), Vizianagaram Dist



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Reference book: "Human Anatomy & Physiology" by Elaine N. Marieb and Katja Hoehn

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	12-12-2022	6hrs	<b>1. Foundations of Anatomy and Physiology:</b> <ul style="list-style-type: none"><li>• Introduction</li><li>• History</li><li>• Cellular anatomy and physiology</li><li>• Advances in cell biology and their implications</li></ul>
2.		13-12-2022	6hrs	<b>2. Systems Integration and Homeostasis:</b> <ul style="list-style-type: none"><li>• Integration of organ systems</li><li>• Homeostasis and its role</li><li>• Case studies</li><li>• Advanced concepts</li><li>• Modern diagnostic techniques</li></ul>
3.		14-12-2022	6hrs	<b>3. Advances in Neuroanatomy and Physiology:</b> <ul style="list-style-type: none"><li>• Exploration of the nervous system</li><li>• Neurotransmitters, synaptic transmission and neural networks</li><li>• Research in neuroscience</li><li>• Clinical applications</li></ul>
4.		15-12-2022	6hrs	<b>4. Molecular and Cellular Advances:</b> <ul style="list-style-type: none"><li>• Molecular basis of cellular functions</li><li>• Advances in genetics and genomics</li><li>• Role of molecular biology</li><li>• Emerging technologies</li></ul>



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5.		16-12-2022	6hrs	<b>5. Integrative Physiology and Disease Mechanisms:</b> <ul style="list-style-type: none"><li>• Integration of physiological systems</li><li>• Case studies</li><li>• Immune system physiology</li><li>• Advances in immunology</li></ul>
6.		17-12-2022	6hrs	<b>6. Future Directions and Practical Applications:</b> <ul style="list-style-type: none"><li>• Exploration of emerging trends in anatomy and physiology</li><li>• Ethical considerations</li><li>• Practical applications</li></ul>

*B. Blogya Sai*  
**Course Coordinator**

*N. Neelina*  
**HOD**

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



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**Assessment:**

1. **What is the primary focus of anatomy in human health care??**
  - a. Microorganisms
  - b. Structure of the body
  - c. Function of organs
  - d. Genetic makeup
2. **Which imaging technique provides detailed cross-sectional images of internal structures and is commonly used in medical diagnosis?**
  - a. X-ray
  - b. MRI (Magnetic Resonance Imaging)
  - c. Ultrasound
  - d. CT scan (Computed Tomography)
3. **In human physiology, what is the role of the endocrine system?**
  - a. Transportation of oxygen
  - b. Regulation of body temperature
  - c. Control of hormones and chemical messengers
  - d. Digestion of food
4. **Which of the following is responsible for transmitting signals between nerve cells in the human body?**
  - a. Hormones
  - b. Neurons
  - c. White blood cells
  - d. Red blood cells
5. **What is the purpose of the circulatory system in human physiology?**
  - a. Break down food for energy
  - b. Maintain fluid balance in the body
  - c. Transport nutrients and oxygen to cells
  - d. Produce antibodies
6. **Which organ is responsible for detoxifying harmful substances and producing bile in the human body?**
  - a. Pancreas
  - b. Liver
  - c. Kidney
  - d. Gallblader
7. **What is the primary function of the muscular system in the human body?**
  - a. Pump Blood
  - b. Produce Movement and provide support
  - c. Filter toxins from the blood
  - d. Control body temperature
8. **In anatomy, what term is used to describe the study of the structure and function of cells?**
  - a. Histology
  - b. Cytology
  - c. Osteology
  - d. Myology



  
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9. Which of the following hormones is responsible for regulating blood sugar levels in the body?
- Insulin
  - Estrogen
  - Testosterone
  - Thyroxine
10. What is the main function of the respiratory system in the human body?
- Pump blood throughout the body
  - Exchange of gases
  - Filter and eliminate waste products
  - Regulate body temperature

*B. Bhogya Sai*  
Course Coordinator

*N. Neelina*  
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Date : 16-12-2019 to 21-12-2019  
No. of Students Enrolled : 102  
Subject : "Advances of anatomy & physiology in human health care"  
I 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

*B. Blogya Sai*  
Course Coordinator

*N. Neelima*  
HOD



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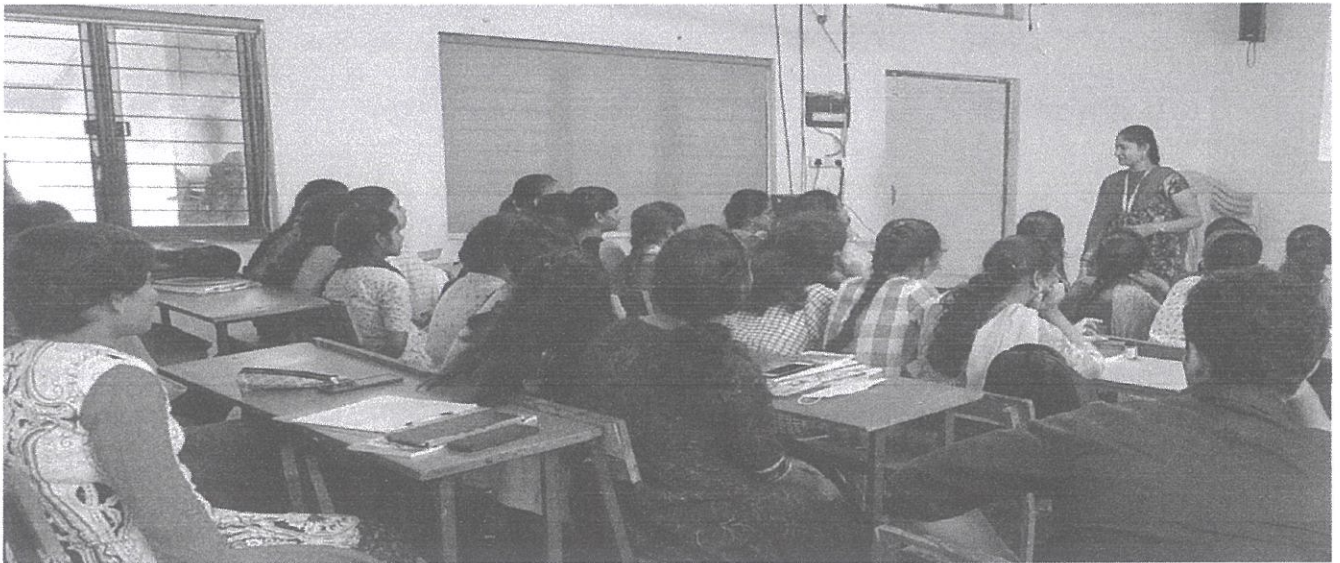


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The students of I year B. Pharmacy certificate program attending “**ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE**” by the Assistant Professor Mrs. B. Aruna, Emmanuel Collage of Pharmacy

*B. Blogya Sai*  
Course Coordinator

*D. Weelina*  
HOD



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



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Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162.

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Date : 16-12-2019 to 21-12-2019

Subject : "Advances of anatomy & physiology in human health care" I B. Pharmacy

S.No	Roll. No	Student Name	16/12/19	17/12/19	18/12/19	19/12/19	20/12/19	21/12/19
1	19T51R0001	Alajangi Jhansi	✓	✓	✓	✓	✓	✓
2	19T51R0002	Anguluru Jyothirmai	✓	✓	✓	✓	✓	✓
3	19T51R0003	Arava Naveen	A	A	A	A	A	A
4	19T51R0004	Bandaru Hanok Hemanth Kumar	✓	✓	✓	✓	✓	✓
5	19T51R0005	Bandaru Ramakala	✓	✓	✓	✓	✓	✓
6	19T51R0006	Bankapalli Sai Rajitha	✓	✓	✓	✓	✓	✓
7	19T51R0007	Behara Durga Sampat Bhavana	✓	✓	✓	A	✓	✓
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	✓	✓	A	✓	✓	✓
15	19T51R0015	Bosi Rajkumar	✓	✓	✓	✓	A	✓
16	19T51R0016	Botta Mamatha	✓	✓	✓	✓	✓	✓
17	19T51R0017	Buddala Kasturi	A	✓	✓	✓	✓	✓
18	19T51R0018	Budumuru Gayatri	✓	✓	✓	✓	✓	A
19	19T51R0019	Buradhapati Gopala Krishna	✓	✓	✓	✓	A	✓

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20	19T51R0020	Chilakala Teja	✓	✓	✓	✓	✓	✓
21	19T51R0021	Chinta Kiranmayi	✓	✓	✓	✓	A	✓
22	19T51R0022	Chinthala Swathimathi	✓	✓	✓	✓	A	✓
23	19T51R0023	Doddi Shanmukha Rithika	✓	A	✓	✓	✓	✓
24	19T51R0024	Donthala Kusuma	✓	✓	✓	✓	✓	✓
25	19T51R0025	Dundangi Sarvani	A	✓	✓	✓	✓	✓
26	19T51R0026	Duvvana Hemalatha	✓	✓	✓	✓	A	✓
27	19T51R0027	Dwarapureddi Lavanya	✓	✓	✓	✓	✓	✓
28	19T51R0028	Era Jyothi Prodhan	✓	A	✓	✓	✓	✓
29	19T51R0029	Gajjala Sreekanth	A	A	A	A	A	A
30	19T51R0030	Gajjala Adi Narayana	A	A	✓	A	✓	✓
31	19T51R0031	Gorrela Raju	✓	✓	A	A	✓	✓
32	19T51R0032	Gudivada Gopala Krishna	✓	✓	✓	✓	✓	✓
33	19T51R0033	Gurala Vedhika Sridevi	✓	✓	✓	✓	✓	✓
34	19T51R0034	Gurana Bhavani	✓	✓	✓	✓	✓	✓
35	19T51R0035	Gunupuru Nagendra	✓	✓	✓	✓	A	✓
36	19T51R0036	Jagannadha Durga Devi	✓	✓	✓	✓	✓	✓
37	19T51R0037	Jami Thanuja	✓	A	✓	✓	✓	✓
38	19T51R0038	Kaibada Swapna	✓	✓	✓	✓	✓	✓
39	19T51R0039	Kantreddi Satishkumar	A	A	A	A	A	A
40	19T51R0040	KattaAvinash	✓	✓	✓	✓	✓	✓
41	19T51R0041	Kedari Navya	✓	✓	✓	✓	✓	✓

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42	19T51R0042	Kedarisetty Pavithra	✓	✓	✓	✓	✓	✓
43	19T51R0043	Kollu Veera Manikantha	A	✓	✓	✓	✓	✓
44	19T51R0044	Komma Gowthami Bhavani	✓	✓	✓	✓	A	✓
45	19T51R0045	Kommuri Revathi	A	✓	✓	✓	✓	✓
46	19T51R0046	Kondagorri Hari	✓	✓	✓	✓	✓	✓
47	19T51R0047	Kondala Roja Ramani	✓	✓	✓	✓	✓	✓
48	19T51R0048	Kornana Pavan Kumar	✓	✓	✓	✓	✓	✓
49	19T51R0049	Kotamahanthi Sujatha	A	✓	✓	✓	✓	✓
50	19T51R0050	Kotari Santhosh	✓	✓	✓	✓	✓	✓
51	19T51R0051	Kunthuri Umamahesh	✓	✓	✓	✓	✓	✓
52	19T51R0052	Kuppa Sridevi	✓	✓	✓	✓	✓	✓
53	19T51R0053	Lankalapalli Sai Bhuvaneswari	✓	✓	✓	✓	✓	✓
54	19T51R0054	Lingampalli Satya Sri Hamsika	✓	✓	✓	✓	✓	✓
55	19T51R0055	Lotti Chandrika	✓	A	✓	✓	✓	✓
56	19T51R0056	Madugula Sirisha	✓	✓	✓	✓	✓	✓
57	19T51R0057	Malla Pavithra Pavani	A	✓	✓	✓	✓	✓
58	19T51R0058	Mamidi Sravani	✓	✓	✓	✓	✓	✓
59	19T51R0059	Mamidiseti Naina	✓	✓	✓	✓	✓	✓
60	19T51R0060	Mariserla Devayani	✓	✓	✓	✓	✓	✓
61	19T51R0061	Matta Suseela	✓	✓	✓	✓	✓	✓
62	19T51R0062	Miriyala Renuka Swathi	✓	✓	✓	✓	✓	✓
63	19T51R0063	Mohammad Nafisa	✓	✓	A	✓	✓	✓

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64	19T51R0064	Mosalikanti Rishika	✓	✓	✓	A	✓	✓
65	19T51R0065	Mulli Madhuri	✓	A	✓	✓	A	✓
66	19T51R0066	Mutyala Lohith	✓	✓	✓	✓	✓	✓
67	19T51R0067	Mylapalli Devi	✓	A	A	✓	✓	✓
68	19T51R0068	Nagam Tanuja	✓	✓	✓	✓	✓	✓
69	19T51R0069	Nammi Padma	✓	✓	✓	✓	✓	✓
70	19T51R0070	Neradabilli Sadhana	✓	✓	✓	✓	✓	✓
71	19T51R0071	Padala Sharon	✓	✓	✓	✓	A	✓
72	19T51R0072	Palo Swathi	✓	✓	✓	✓	✓	✓
73	19T51R0073	Pasupuleti Bhanu Prakash	✓	✓	A	✓	✓	✓
74	19T51R0074	Patnaikuni Sai Jahnvi	✓	✓	✓	✓	✓	✓
75	19T51R0075	Peetala Mrudhula	✓	✓	✓	✓	A	✓
76	19T51R0076	Pothina Kavya	✓	✓	✓	✓	✓	✓
77	19T51R0077	Potnuru Srilekha	✓	✓	✓	✓	✓	✓
78	19T51R0078	Puli Harsha Veena	✓	✓	A	✓	✓	A
79	19T51R0079	Rajana Dilip Kumar	✓	✓	✓	✓	✓	✓
80	19T51R0080	Ramadevi Rasula	✓	✓	✓	✓	✓	✓
81	19T51R0081	Ratnala Bhargavi	✓	✓	✓	✓	✓	✓
82	19T51R0082	Reddi Bhavanthi	✓	✓	✓	✓	✓	✓
83	19T51R0083	Saka Sesanka	✓	A	✓	✓	✓	✓
84	19T51R0084	Sarapenta Harinadh	✓	✓	✓	A	✓	✓
85	19T51R0085	Saripilli L S D K Vamsi Yadav	✓	✓	✓	✓	A	✓

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

*B. Bhogapuram*

Course Coordinator

*N. Weelina*  
HOD

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CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.

Bhogapuram (M), Vizianagaram Dist

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Date : 16-12-2019 to 21-12-2019  
No. of Students Enrolled : 102  
Subject : "Advances of anatomy & physiology in human health care"  
I B. Pharmacy

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



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18	19T51R0018	Budumuru Gayatri	30	83%
19	19T51R0019	Buradhapati Gopala Krishna	30	83%
20	19T51R0020	Chilakala Teja	36	100%
21	19T51R0021	Chinta Kiranmayi	30	83%
22	19T51R0022	Chinthala Swathimathi	30	83%
23	19T51R0023	Doddi Shanmukha Rithika	30	83%
24	19T51R0024	Donthala Kusuma	36	100%
25	19T51R0025	Dundangi Sarvani	30	83%
26	19T51R0026	Duvvana Hemalatha	30	83%
27	19T51R0027	Dwarapureddi Lavanya	36	100%
28	19T51R0028	Era Jyothi Prodhan	30	83%
29	19T51R0029	Gajjala Sreekanth	Nil	0%
30	19T51R0030	Gajjala Adi Narayana	18	50%
31	19T51R0031	Gorrela Raju	24	66%
32	19T51R0032	Gudivada Gopala Krishna	36	100%
33	19T51R0033	Gurala Vedhika Sridevi	36	100%
34	19T51R0034	Gurana Bhavani	36	100%
35	19T51R0035	Gunupuru Nagendra	30	83%
36	19T51R0036	Jagannadha Durga Devi	36	100%
37	19T51R0037	Jami Thanuja	30	83%
38	19T51R0038	Kaibada Swapna	36	100%
39	19T51R0039	Kantreddi Satishkumar	Nil	0%

  
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40	19T51R0040	Katta Avinash	36	100
41	19T51R0041	Kedari Navya	36	100
42	19T51R0042	Kedarisetty Pavithra	36	100%
43	19T51R0043	Kollu Veera Manikantha	30	83%
44	19T51R0044	Komma Gowthami Bhavani	30	83%
45	19T51R0045	Kommuri Revathi	30	83%
46	19T51R0046	Kondagorri Hari	36	100%
47	19T51R0047	Kondala Roja Ramani	36	100%
48	19T51R0048	Kornana Pavan Kumar	36	100%
49	19T51R0049	Kotamahanthi Sujatha	30	83%
50	19T51R0050	Kotari Santhosh	36	100%
51	19T51R0051	Kunthuri Umamahesh	36	100%
52	19T51R0052	Kuppa Sridevi	36	100%
53	19T51R0053	Lankalapalli Sai Bhuvaneshwari	36	100%
54	19T51R0054	Lingampalli Satya Sri Hamsika	36	100%
55	19T51R0055	Lotti Chandrika	30	83%
56	19T51R0056	Madugula Sirisha	36	100%
57	19T51R0057	Malla Pavithra Pavani	30	83%
58	19T51R0058	Mamidi Sravani	36	100%
59	19T51R0059	Mamidiseti Naina	36	100%
60	19T51R0060	Mariserla Devayani	36	100%
61	19T51R0061	Matta Suseela	36	100%



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62	19T51R0062	Miriyala Renuka Swathi	36	100 %
63	19T51R0063	Mohammad Nafisa	30	83 %
64	19T51R0064	Mosalikanti Rishika	30	83 %
65	19T51R0065	Mulli Madhuri	24	66 %
66	19T51R0066	Mutyala Lohith	36	100 %
67	19T51R0067	Mylapalli Devi	24	66 %
68	19T51R0068	Nagam Tanuja	36	100 %
69	19T51R0069	Nammi Padma	36	100 %
70	19T51R0070	Neradabilli Sadhana	36	100 %
71	19T51R0071	Padala Sharon	30	83 %
72	19T51R0072	Palo Swathi	36	100 %
73	19T51R0073	Pasupuleti Bhanu Prakash	30	83 %
74	19T51R0074	Patnaikuni Sai Jahnvi	36	100 %
75	19T51R0075	Peetala Mrudhula	30	83 %
76	19T51R0076	Pothina Kavya	36	100 %
77	19T51R0077	Potnuru Srilekha	36	100 %
78	19T51R0078	Puli Harsha Veena	24	66 %
79	19T51R0079	Rajana Dilip Kumar	36	100 %
80	19T51R0080	Ramadevi Rasula	36	100 %
81	19T51R0081	Ratnala Bhargavi	36	100 %
82	19T51R0082	Reddi Bhavanthi	36	100 %
83	19T51R0083	Saka Sesanka	30	83 %



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84	19T51R0084	Sarapenta Harinhadh	30	83%
85	19T51R0085	Saripilli L S D K Vamsi Yadav	30	83%
86	19T51R0086	Shankar Rao Bora	30	83%
87	19T51R0087	Shivani Namburu	12	33%
88	19T51R0088	Siragam Akhil Kumar	36	100%
89	19T51R0089	Srivatsavai Lakshmi Sandili	36	100%
90	19T51R0090	Sunkara Anju Sree	18	50%
91	19T51R0091	Tadi Abhishek	36	100%
92	19T51R0092	Tapa Poojitha	30	83%
93	19T51R0093	Telapalli Haritha	30	83%
94	19T51R0094	Telikicherla Veenapani	36	100%
95	19T51R0095	Thamatapu Aravind	30	83%
96	19T51R0096	Toyaka Manisha	30	83%
97	19T51R0097	Vankayalapati Sai Sravani	Nil	0%
98	19T51R0098	Vantakula Lavanya	36	100%
99	19T51R0099	Yammala Vamsi	36	100%
100	19T51R01A1	Paspu Reddy Sharnalatha	30	83%
101	19T51R01A2	Koyya Roshini	36	100%
102	19T51R01A3	Simhadri Gnana Prasanna	30	83%

*B. Bhagyashree*  
Course Coordinator



*[Signature]*  
PRINCIPAL

*N. Neelima*  
HOD

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CHITTIVALASA S.A.O.

Vizianagaram Dt., - 531162

Bhogapuram (M), Vizianagaram Dist



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# Certificate of Completion

This is to certify that Mr/Ms **MARISERLA DEVAYANI** bearing roll no. 19T51R0060 pursuing I B Pharmacy has successfully completed value added course on “**ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE**” held from 16-12-2019 to 21-12-2019.



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## Certificate of Completion

This is to certify that Mr/Ms **MAMIDISSETTI NAINA** bearing roll no. 19T51R0059 pursuing I B Pharmacy has successfully completed value added course on **“ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE”** held from 16-12-2019 to 21-12-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **BOGI PRADEEP** bearing roll no. 19T51R0011 pursuing I  
B Pharmacy has successfully completed value added course on  
“**ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE**”  
held from 16-12-2019 to 21-12-2019.

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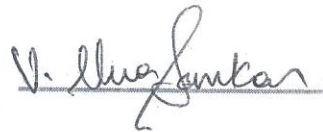
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# Certificate of Completion

This is to certify that Mr/Ms **BODDU MARY MANI** bearing roll no. 19T51R0010  
pursuing I B Pharmacy has successfully completed value added course on  
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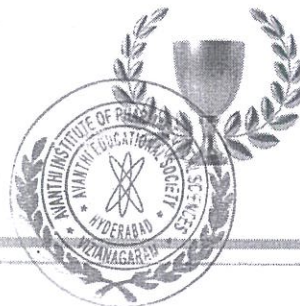
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# Certificate of Completion

This is to certify that Mr/Ms **BODAPATI KAVERI** bearing roll no. 19T51R0009  
pursuing I B Pharmacy has successfully completed value added course on  
**“ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE”**  
held from 16-12-2019 to 21-12-2019.

*V. L. Sankar*

Convener



*[Signature]*

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## Certificate of Completion

This is to certify that Mr/Ms **MYLAPALLI DEVI** bearing roll no. 19T51R0067  
pursuing I B Pharmacy has successfully completed value added course on  
“**ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE**”  
held from 16-12-2019 to 21-12-2019.

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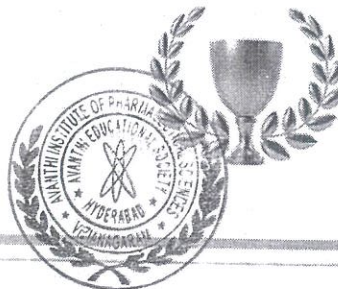
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## Certificate of Completion

This is to certify that Mr/Ms **NAGAM TANUJA** bearing roll no. 19T51R0068 pursuing I B Pharmacy has successfully completed value added course on “**ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE**” held from 16-12-2019 to 21-12-2019.

*V. Anne Sankar*

Convener



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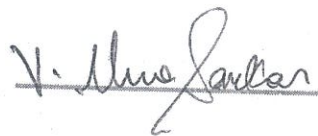
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# Certificate of Completion

This is to certify that Mr/Ms **NAMMI PADMA** bearing roll no. 19T51R0069 pursuing I B Pharmacy has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **SHIVANI NAMBURU** bearing roll no. 19T51R0087  
pursuing I B Pharmacy has successfully completed value added course on  
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# Certificate of Completion

This is to certify that Mr/Ms **SIRAGAM AKHIL KUMAR** bearing roll no. 19T51R0088 pursuing I B Pharmacy has successfully completed value added course on “**ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE**” held from 16-12-2019 to 21-12-2019.

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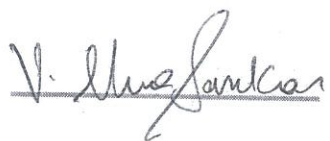
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# Certificate of Completion

This is to certify that Mr/Ms **SUNKARA ANJU SREE** bearing roll no. 19T51R0090 pursuing I B Pharmacy has successfully completed value added course on **“ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE”** held from 16-12-2019 to 21-12-2019.



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## Certificate of Completion

This is to certify that Mr/Ms **TADI ABHISHEK** bearing roll no. 19T51R0091  
pursuing I B Pharmacy has successfully completed value added course on  
“**ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE**”  
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## Certificate of Completion

This is to certify that Mr/Ms **TAPA POOJITHA** bearing roll no. 19T51R0092  
pursuing I B Pharmacy has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **TELAPALLI HARITHA** bearing roll no. 19T51R0093 pursuing I B Pharmacy has successfully completed value added course on **“ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE”** held from 16-12-2019 to 21-12-2019.

*V. Uma Sankar*

Convener



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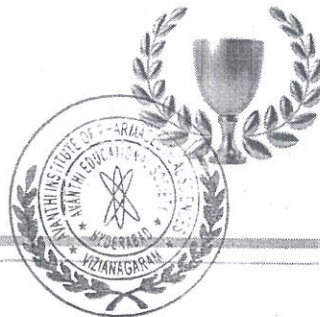
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# Certificate of Completion

This is to certify that Mr/Ms **TELIKICHERLA VEENAPANI** bearing roll no. 19T51R0094 pursuing I B Pharmacy has successfully completed value added course on **“ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE”** held from 16-12-2019 to 21-12-2019.

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## Certificate of Completion

This is to certify that Mr/Ms **THAMATAPU ARAVIND** bearing roll no. 19T51R0095 pursuing I B Pharmacy, has successfully completed value added course on “**ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE**” held from 16-12-2019 to 21-12-2019.

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# Certificate of Completion

This is to certify that Mr/Ms **TOYAKA MANISHA** bearing roll no. 19T51R0096  
pursuing I B Pharmacy has successfully completed value added course on  
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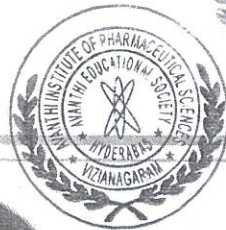
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# Certificate of Completion

This is to certify that Mr/Ms **SIMHADRI GNANA PRASANNA** bearing roll no. 19T51R01A3 pursuing I B Pharmacy has successfully completed value added course on **“ADVANCES OF ANATOMY & PHYSIOLOGY IN HUMAN HEALTH CARE”** held from 16-12-2019 to 21-12-2019.

*V. Shree Janakaram*

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## DEPARTMENT OF PHARMACY PRACTICE

Ref no: AIPS/Pharmacy Practice/2019-20/07

Date: 13-01-2020

### CIRCULAR

This is to inform all the students of VI Pharm. D that a value-added course will be conducted on the topic “Navigating the Future; Interdisciplinary Approaches to Hospital Administration” from 20/01/2020 to 25/01/2020. Interested students are required to sign-up for the above mentioned course with “**Dr. CH. SIVA SRIKANTH**” Deputy Manager in the Amity Information Centre.



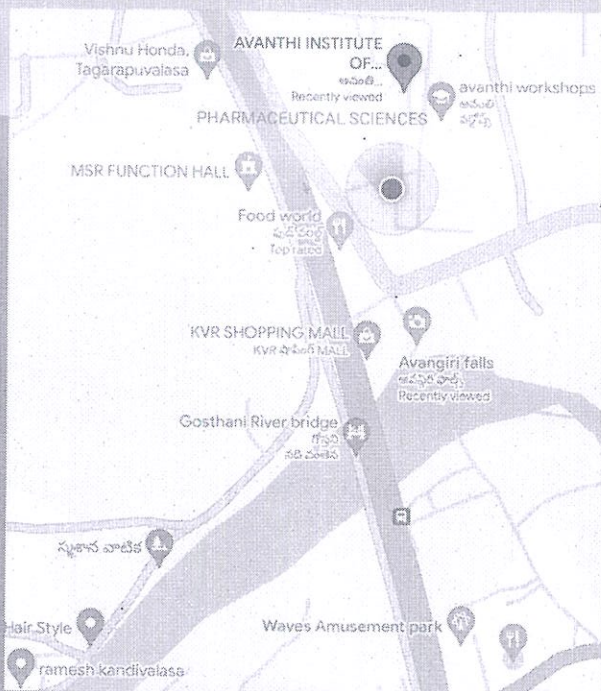
*hs*  
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## Institution

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

Dr. Ch. Siva Srikanth,  
Deputy Manager,



Amity Information  
Centre

## 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

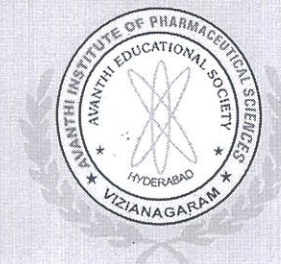
On

**Navigating the Future,  
Interdisciplinary  
Approaches to Hospital  
Administraion**

**20/01/2020 - 25/01/2020**

**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)

CHERUKUPALLY VILLAGE), NEAR  
TAGARAPUVALASA BRIDGE,  
BHOGARUPAM MANDAL, VIZIANAGARAM  
-531162  
**Principal**  
**Avanthy Institute of Pharmaceutical Sciences**  
**Cherukupally (V), Bhogapuram Mandal**  
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Course Title	: Navigating the Future; Interdisciplinary Approaches to Hospital Administration
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-2020
Course Instructor	: Dr. Ch. Siva Srikanth, Deputy Manager, Amity Information Centre, Vishakhapatnam
Course Coordinator	: Dr. M. S. V. Sudeep, Assistant Professor
Dates	: 20-01-2020 to 25-01-2020
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/Pharm. D/2019/07</b>

## Objectives:

- Interdisciplinary Understanding
- Strategic Thinking
- Leadership Development
- Financial Management
- Quality Improvement
- Innovation and Technology
- Ethical and Legal Considerations

## Outcomes:

- Informed Decision-Making
- Effective Leadership
- Financial Sustainability
- Quality Healthcare Delivery
- Adaptability and Innovation
- Ethical and Legal Compliance
- Collaboration and Communication



  
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## Syllabus

### 1. Introduction to Hospital Administration

- Overview of the healthcare industry
- Role and responsibilities of hospital administrators
- Historical context and evolution of hospital administration

### 2. Interdisciplinary Perspectives in Healthcare

- Understanding the intersection of healthcare management, finance, human resources, and technology
- Importance of interdisciplinary collaboration in healthcare administration

### 3. Leadership in Healthcare

- Leadership styles and their applicability in healthcare settings
- Team dynamics and effective communication in healthcare leadership

### 4. Financial Management in Hospitals

- Budgeting and financial planning
- Revenue generation and cost control strategies in healthcare
- Healthcare reimbursement models

### 5. Quality Improvement in Healthcare

- Continuous quality improvement methodologies
- Patient safety and outcomes improvement
- Utilization of data for quality assessment

### 6. Innovation and Technology in Healthcare

- Emerging technologies in healthcare administration
- Integration of information technology for improved patient care
- Innovation in healthcare delivery models

*M. S. S. Suley*  
Course Coordinator

*V. Uma Shankar*  
HOD



*[Signature]*  
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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	Navigating The Future; Intradisciplinary Approaches To Hospital Administration	Break	Navigating The Future; Intradisciplinary Approaches To Hospital Administration	Lunch	Navigating The Future; Intradisciplinary Approaches To Hospital Administration	Navigating The Future; Intradisciplinary Approaches To Hospital Administration	Break	Navigating The Future; Intradisciplinary Approaches To Hospital Administration	Navigating The Future; Intradisciplinary Approaches To Hospital Administration
TUE									
WED									
THU									
FRI									
SAT									

*M.S.V Sudeep*  
Course Coordinator

*V. Uma Shankar*  
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Reference book: "Hospital and Healthcare Administration" by K. R. Kochhar

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	20-01-2020	6hrs	<b>1. Introduction to Hospital Administration</b> <ul style="list-style-type: none"><li>• Overview of the healthcare industry</li><li>• Role and responsibilities of hospital administrators</li><li>• Historical context and evolution of hospital administration</li></ul>
2.		21-01-2020	6hrs	<b>2. Interdisciplinary Perspectives in Healthcare</b> <ul style="list-style-type: none"><li>• Understanding the intersection of healthcare management, finance, human resources, and technology</li><li>• Importance of interdisciplinary collaboration in healthcare administration</li></ul>
3.		22-01-2020	6hrs	<b>3. Leadership in Healthcare</b> <ul style="list-style-type: none"><li>• Leadership styles and their applicability in healthcare settings</li><li>• Team dynamics and effective communication in healthcare leadership</li></ul>
4.		23-01-2020	6hrs	<b>4. Financial Management in Hospitals</b> <ul style="list-style-type: none"><li>• Budgeting and financial planning</li><li>• Revenue generation and cost control strategies in healthcare</li><li>• Healthcare reimbursement models</li></ul>



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5.		24-01-2020	6hrs	<b>5. Quality Improvement in Healthcare</b> <ul style="list-style-type: none"><li>• Continuous quality improvement methodologies</li><li>• Patient safety and outcomes improvement</li><li>• Utilization of data for quality assessment</li></ul>
6.		25-01-2020	6hrs	<b>6. Innovation and Technology in Healthcare</b> <ul style="list-style-type: none"><li>• Emerging technologies in healthcare administration</li><li>• Integration of information technology for improved patient care</li><li>• Innovation in healthcare delivery models</li></ul>

*M.S.V. Sudeep*  
**Course Coordinator**

*V. Uma Shankar*  
**HOD**

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## Assessment:

1. **What is the primary focus of "Navigating the Future: Intradisciplinary Approaches to Hospital Administration" programs?**
  - a. Financial Management in Hospitals
  - b. Interdisciplinary Approaches in Healthcare
  - c. Quality Improvement in Hospitals
  - d. Leadership in Healthcare
2. **In the context of hospital administration, what does the term "intradisciplinary" refer to?**
  - a. Collaboration within different healthcare organizations
  - b. Collaboration within various disciplines within healthcare
  - c. Collaboration between healthcare and non-healthcare industries
  - d. Collaboration between medical professionals and administrators
3. **What is the main objective of exploring "Interdisciplinary Perspectives in Healthcare"?**
  - a. Enhancing patient safety
  - b. Understanding various healthcare disciplines
  - c. Focusing on financial management
  - d. Analysing case studies
4. **Which aspect is NOT typically covered in a hospital administration program?**
  - a. Financial Management
  - b. Marketing Strategies
  - c. Quality Improvement
  - d. Ethical and Legal Considerations
5. **Why is understanding healthcare policies and regulations important in hospital administration?**
  - a. To bypass legal requirements
  - b. To advocate for policy changes
  - c. To create obstacles in healthcare delivery
  - d. To disregard patient rights
6. **What is the main goal of "Navigating the Future: Intradisciplinary Approaches to Hospital Administration" programs?**
  - a. To preserve traditional healthcare practices
  - b. To equip professionals with skills for future challenges
  - c. To discourage innovation in healthcare
  - d. To limit collaboration between healthcare disciplines



  
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7. **Why is the understanding of healthcare reimbursement models important in hospital administration?**
  - a. To increase patient costs
  - b. To optimize revenue generation
  - c. To discourage healthcare services
  - d. To ignore financial considerations
8. **What does the term "intradisciplinary" imply in the context of hospital administration?**
  - a. Collaboration within a single healthcare discipline
  - b. Collaboration between healthcare and non-healthcare disciplines
  - c. Collaboration within different healthcare organizations
  - d. Collaboration within various healthcare professionals
9. **What is the primary focus of the "Ethical and Legal Considerations" week in hospital administration?**
  - a. Maximizing profits
  - b. Minimizing patient rights
  - c. Navigating complex legal and ethical issues
  - d. Avoiding compliance with healthcare laws
10. **Why is financial sustainability crucial for hospital administration?**
  - a. To minimize patient care quality
  - b. To ensure long-term viability and effectiveness
  - c. To discourage financial planning
  - d. To focus solely on short-term profits

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Subject : Navigating the Future; Interdisciplinary Approaches to Hospital Administration  
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S No.	Roll No.	Student Name
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2	14T51T0002	Anupoju Sowmya
3	14T51T0003	Betha Manjula Devi
4	14T51T0004	Boddu Mounika
5	14T51T0005	Bussa Meenakshi
6	14T51T0006	Chittiboyina Amrutha Varshini
7	14T51T0007	Dasari Thusara Srivaidehi
8	14T51T0008	Desari Sumathi
9	14T51T0009	Dungi V V Prasad Reddy
10	14T51T0010	Gorapalli T S Sowmya
11	14T51T0012	Iddupalli Padma
12	14T51T0013	Kommoju Leela Madhuri
13	14T51T0014	Kondapalli Devika Madhuri
14	14T51T0015	Kotaprolu Priyanka
15	14T51T0016	Mahasivabhattu Sri Anand Karunakar Raju
16	14T51T0017	Mukthipudi Ujwala
17	14T51T0018	N Hema Sri Laxmi



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18	14T51T0020	Pakalapati Asrita
19	14T51T0021	Pathigilli Kavya Sri
20	14T51T0022	Rachuri Manogna
21	14T51T0023	Radhika D V L
22	14T51T0024	Seepana Yogasree
23	14T51T0025	Singampalli Sravani
24	14T51T0026	Sure Dhanunjaya
25	14T51T0027	Vasantha Kumudini
26	14T51T0028	Yanapu Naga Venkata Satya Anusha
27	14T51T0029	Yandava Spandana
28	14T51T0030	Simha Haripriya

*M.S.V. Sudheep*  
Course Coordinator

*V. Uma Sankar*  
HOD

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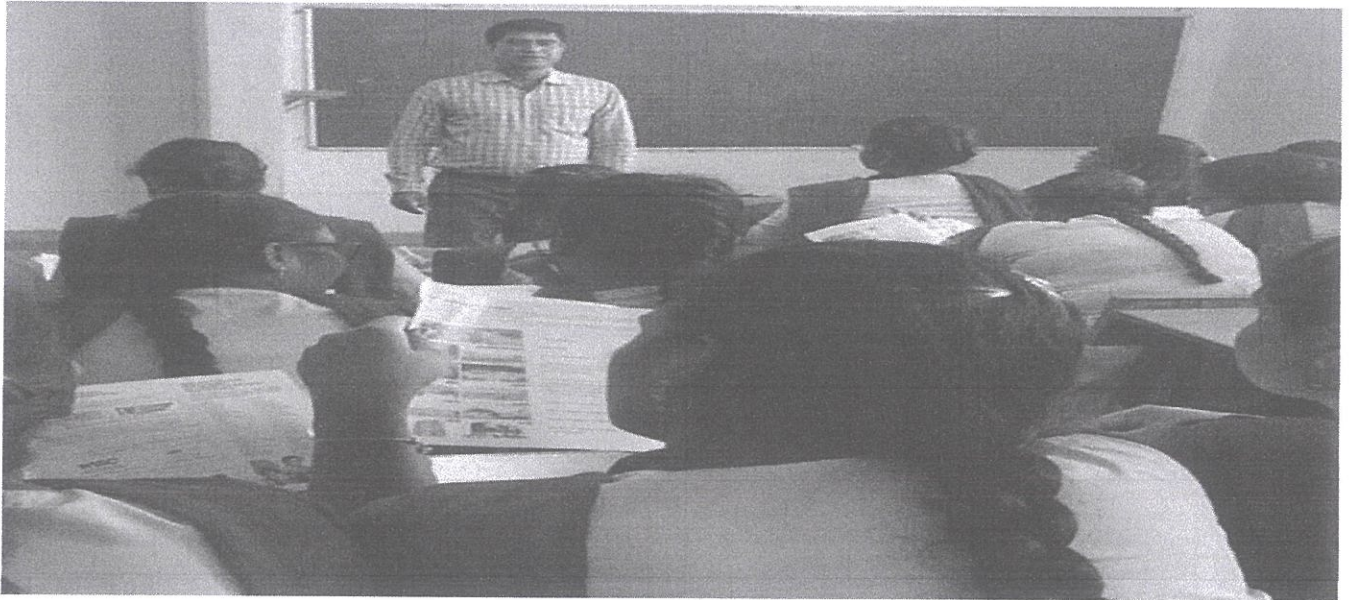


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The students of 6<sup>th</sup> year Pharm. D certificate program attending on “NAVIGATING THE FUTURE; INTERDISCIPLINARY APPROACHES TO HOSPITAL ADMINISTRATION” by the Deputy Manager, Dr. Ch. Siva Srikanth, Amity Information Centre

*M.S.V. Sudheep*  
**Course Coordinator**



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3	14T51T0003	Betha Manjula Devi	A	A	A	A	A	A
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6	14T51T0006	Chittiboyina AmruthaVarshini	✓	✓	✓	✓	✓	✓
7	14T51T0007	Dasari Thusara Srivaidehi	✓	✓	✓	✓	✓	✓
8	14T51T0008	Desari Sumathi	✓	✓	✓	A	✓	✓
9	14T51T0009	Dungi V V Prasad Reddy	✓	✓	✓	-	✓	✓
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13	14T51T0014	Kondapalli Devika Madhuri	A	✓	✓	✓	✓	✓
14	14T51T0015	Kotaprolu Priyanka	A	A	A	A	A	A
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17	14T51T0018	N Hema Sri Laxmi	✓	✓	✓	✓	✓	✓
18	14T51T0020	Pakalapati Asrita	✓	✓	✓	✓	✓	✓
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28	14T51T0030	Simha Haripriya	✓	✓	✓	✓	✓	✓

M.S.V. Supreep  
Course Coordinator

V. Bhargava  
HOD

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15	14T51T0016	Mahasivabhattu Sri Anand Karunakar Raju	36	100%
16	14T51T0017	Mukthipudi Ujwala	36	100%
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27	14T51T0029	Yandava Spandana	Nil	0%
28	14T51T0030	Simha Haripriya	36	100%

*M.S.V. Sudeep*  
Course Coordinator

*V. Anusanka*  
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## Certificate of Completion

This is to certify that Mr/Ms **G ORIANA CRYSTAL** bearing roll no. 15T51T0018  
pursuing IV Pharm D has successfully completed value added course on  
“NAVIGATING THE FUTURE; INTERDISCIPLINARY APPROACHES TO  
HOSPITAL ADMINISTRATION”  
held from 20-01-2020 to 25-01-2020.

V. Anja Sankar

Convener



JVS

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## Certificate of Completion

This is to certify that Mr/Ms **M.SUPRIYA MANI** bearing roll no. 16T51T0027  
pursuing IV Pharm D has successfully completed value added course on  
**“NAVIGATING THE FUTURE; INTERDISCIPLINARY APPROACHES TO  
HOSPITAL ADMINISTRATION”**  
held from 20-01-2020 to 25-01-2020.

*V. Uma Sankar*

Convener



*[Signature]*

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## Certificate of Completion

This is to certify that Mr/Ms **YELLETI SAINANDINI** bearing roll no. 16T51T0026 pursuing IV Pharm D has successfully completed value added course on **“NAVIGATING THE FUTURE; INTERDISCIPLINARY APPROACHES TO HOSPITAL ADMINISTRATION”** held from 20-01-2020 to 25-01-2020.

*V. Uma Sankar*

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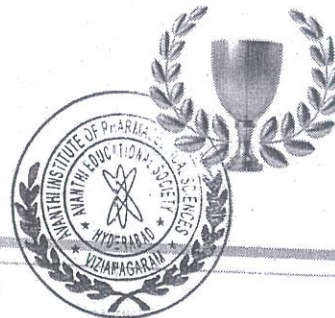
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## Certificate of Completion

This is to certify that Mr/Ms **TIMMANA VENKATA SAI GEETHIKA**  
bearing roll no. 16T51T0024 pursuing  
IV Pharm D has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **SANNIBOYINA BHAVYA ANUSHA** bearing  
roll no. 16T51T0022 pursuing  
IV Pharm D has successfully completed value added course on  
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*V. Umabankar*

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## Certificate of Completion

This is to certify that Mr/Ms **SIMHA HARIPRIYA** bearing roll no. 14T51T0030  
pursuing VI Pharm D has successfully completed value added course on  
“**NAVIGATING THE FUTURE; INTERDISCIPLINARY APPROACHES TO  
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*J. Anasankar*

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## Certificate of Completion

This is to certify that Mr/Ms **KOTAPROLU PRIYANKA** bearing roll no. 14T51T0015 pursuing VI Pharm D has successfully completed value added course on **“NAVIGATING THE FUTURE; INTERDISCIPLINARY APPROACHES TO HOSPITAL ADMINISTRATION”** held from 20-01-2020 to 25-01-2020.

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## Certificate of Completion

This is to certify that Mr/Ms **MUKTHIPUDI UJWALA** bearing roll no. 14T51T0017 pursuing VI Pharm D has successfully completed value added course on “NAVIGATING THE FUTURE; INTERDISCIPLINARY APPROACHES TO HOSPITAL ADMINISTRATION” held from 20-01-2020 to 25-01-2020.

*V. Uma Sankar*

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## Certificate of Completion

This is to certify that Mr/Ms **SURE DHANUNJAYA** bearing roll no. 14T51T0026  
pursuing VI Pharm D has successfully completed value added course on  
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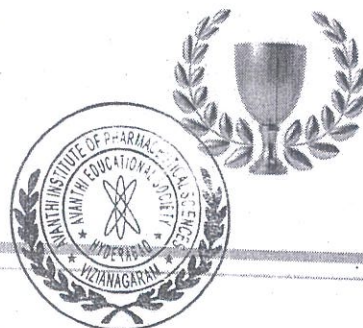
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## Certificate of Completion

This is to certify that Mr/Ms **KONDAPALLI DEVIKA MADHURI** bearing roll no. 14T51T0014 pursuing VI-Pharm D has successfully completed value added course on **“NAVIGATING THE FUTURE; INTERDISCIPLINARY APPROACHES TO HOSPITAL ADMINISTRATION”** held from 20-01-2020 to 25-01-2020.

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## DEPARTMENT OF PHARMACY PRACTICE

Ref no: AIPS/Pharmacy Practice/2019-20/08

Date: 27-01-2020

### CIRCULAR

This is to inform all the students of IV Pharm. D that a value-added course will be conducted on the topic "Blockchain technology for pharmaceutical supply chains" from 03/02/2020 to 08/02/2020 interested students are required to sign-up for the above mentioned course with "MRS. A. H. V. SANTHOSHI" 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

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



Avanthi Institute of  
Pharmaceutical  
Sciences.

## Organizing Committee

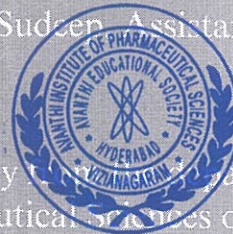
Mr. V.H.S. Reddy, Associate  
Professor

Dr. T. Rushi, Assistant Professor

Dr. M. S V. Sudhan, Assistant  
Professor

## Members

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



## 6 Days Workshop On Blocking Chain Technology for Pharmaceutical Supply Chain

03/02/2020 - 08/02/2020

Organized By:

DEPARTMENT OF  
PHARMACY PRACTICE



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Course Title	: Blockchain technology for pharmaceutical supply chains
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course Instructor	: Mrs. A. H.V. Santhoshi, Associate professor, Avanthi institute of Pharmaceutical Sciences, Cherukupalli, Vizianagaram
Course Coordinator	: Dr. B. Manoj Kumar, Associate Professor
Dates	: 03-02-2020 to 08-02-2020
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: VAC/Pharm. D/2019/08

## Objectives:

- Basics and architecture
- Drug traceability
- Security and privacy
- Interoperability and standards
- Future trends and innovations
- Adoption challenges

## Outcomes:

- Evaluation
- Implementation
- Analysis
- Regulatory compliance



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## Syllabus

### 1. Introduction:

- Introduction
- Importance
- History

### 2. Block chain Basics and Architecture:

- Blockchain Components and Concepts
- Types of Blockchain: Public, Private, and Consortium
- Hands-On Workshop: Setting Up a Simple Blockchain
- Block chain Network Architecture

### 3. Block chain in Drug Traceability:

- Importance of Traceability in Pharma
- Case Studies: Successful Implementations of Blockchain in Drug Traceability
- Smart Contracts in Pharmaceutical Supply Chains
- Use Cases and Practical Applications

### 4. Security, Privacy, and Interoperability:

- Security Features in Blockchain
- Privacy Considerations in Pharmaceutical Blockchain Applications
- Interoperability Challenges and Solutions
- Emerging Standards in the Pharma Blockchain Landscape

### 5. Regulatory Compliance, Governance, and Adoption Strategies:

- Regulatory Landscape for Blockchain in Pharma
- Governance Models in Blockchain Networks
- Overcoming Adoption Challenges
- Strategies for Implementing Blockchain in Pharmaceutical Supply Chains

### 6. Future Trends and Integration with Emerging Technologies:

- Future Trends and Integration with Emerging Technologies

*B. Maul*  
Course Coordinator

*V. Uma Sankar*  
HOD



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## 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	Blockchain technology for pharmaceutical supply chains	Break	Blockchain technology for pharmaceutical supply chains	Lunch	Blockchain technology for pharmaceutical supply chains	Blockchain technology for pharmaceutical supply chains	Break	Blockchain technology for pharmaceutical supply chains	Blockchain technology for pharmaceutical supply chains
TUE									
WED									
THU									
FRI									
SAT									

  
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Reference book: "Blockchain Applications: A Hands-On Approach" by Arshdeep Bahga and Vijay Madiseti

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	03-02-2020	6hrs	<b>1. Introduction :</b> <ul style="list-style-type: none"><li>• Introduction</li><li>• Importance</li><li>• History</li></ul>
2.		04-02-2020	6hrs	<b>2. Blockchain Basics and Architecture:</b> <ul style="list-style-type: none"><li>• Blockchain Components and Concepts</li><li>• Types of Blockchain: Public, Private, and Consortium</li><li>• Hands-On Workshop: Setting Up a Simple Blockchain</li><li>• Blockchain Network Architecture</li></ul>
3.		05-02-2020	6hrs	<b>3. Blockchain in Drug Traceability:</b> <ul style="list-style-type: none"><li>• Importance of Traceability in Pharma</li><li>• Case Studies: Successful Implementations of Blockchain in Drug Traceability</li><li>• Smart Contracts in Pharmaceutical Supply Chains</li><li>• Use Cases and Practical Applications</li></ul>
4.		06-02-2020	6hrs	<b>4. Security, Privacy, and Interoperability:</b> <ul style="list-style-type: none"><li>• Security Features in Blockchain</li><li>• Privacy Considerations in Pharmaceutical Blockchain Applications</li><li>• Interoperability Challenges and Solutions</li></ul>



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				<ul style="list-style-type: none"><li>Emerging Standards in the Pharma Blockchain Landscape</li></ul>
5.		07-02-2020	6hrs	<b>5. Regulatory Compliance, Governance, and Adoption Strategies:</b> <ul style="list-style-type: none"><li>Regulatory Landscape for Blockchain in Pharma</li><li>Governance Models in Blockchain Networks</li><li>Overcoming Adoption Challenges</li><li>Strategies for Implementing Blockchain in Pharmaceutical Supply Chains</li></ul>
6.		08-02-2020	6hrs	<b>6. Future Trends and Integration with Emerging Technologies:</b> <ul style="list-style-type: none"><li>Future Trends and Integration with Emerging Technologies</li></ul>

  
Course Coordinator

  
HOD

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## Assessment:

### 1. What is Blockchain Technology?

- A type of computer virus
- A decentralized and distributed ledger system
- An antivirus software
- A type of computer hardware

### 2. How does Blockchain enhance security in pharmaceutical supply chains?

- By centralizing all data in one location
- By encrypting data using a single key
- By using a decentralized and tamper-resistant ledger
- By relying on traditional paper-based record

### 3. Which term describes the process of adding a new block of transactions to the Blockchain ?

- Encryption
- Mining
- Hacking
- Centralization

### 4. What role do Smart Contracts play in pharmaceutical supply chain Blockchain?

- By allowing unlimited access to data
- Through regular data backups
- By making data tamper-resistant and transparent
- By relying on manual data entry processes

### 5. Which feature of Blockchain helps trace the origin of pharmaceutical products?

- Centralization
- Immutability
- Anonymity
- Randomization

### 6. In Blockchain, what is a "Node"?

- A pharmaceutical product
- A participant in the network maintaining a copy of the Blockchain
- A security protocol
- A software bug

### 7. What is the primary benefit of using Blockchain in pharmaceutical supply chains?

- Increased operational costs
- Improved transparency and traceability
- Slower data processing
- Limited data sharing capabilities

### 8. Which Blockchain characteristic prevents unauthorized changes to the data?

- Decentralization
- Consensus mechanism
- Data encryption
- Immutability



  
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9. **What is the purpose of consensus mechanisms in a Blockchain network?**
  - a. To centralize decision-making
  - b. To secure data through encryption
  - c. To validate and agree on the state of the Blockchain
  - d. To hide transaction details from participants
10. **What is the primary advantage of using Blockchain technology in pharmaceutical supply chains?**
  - a. Increased centralization
  - b. Enhanced transparency and traceability
  - c. Lower data security
  - d. Limited access control

  
Course Coordinator

  
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Date : 03-02-2020 to 08-02-2020  
No. of Students Enrolled : 28  
Subject : "Blockchain technology for pharmaceutical supply chains"  
IV 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	Prathibha Angoli



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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

*B. Red*  
Course Coordinator

*V. Uma Shankar*  
HOD

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



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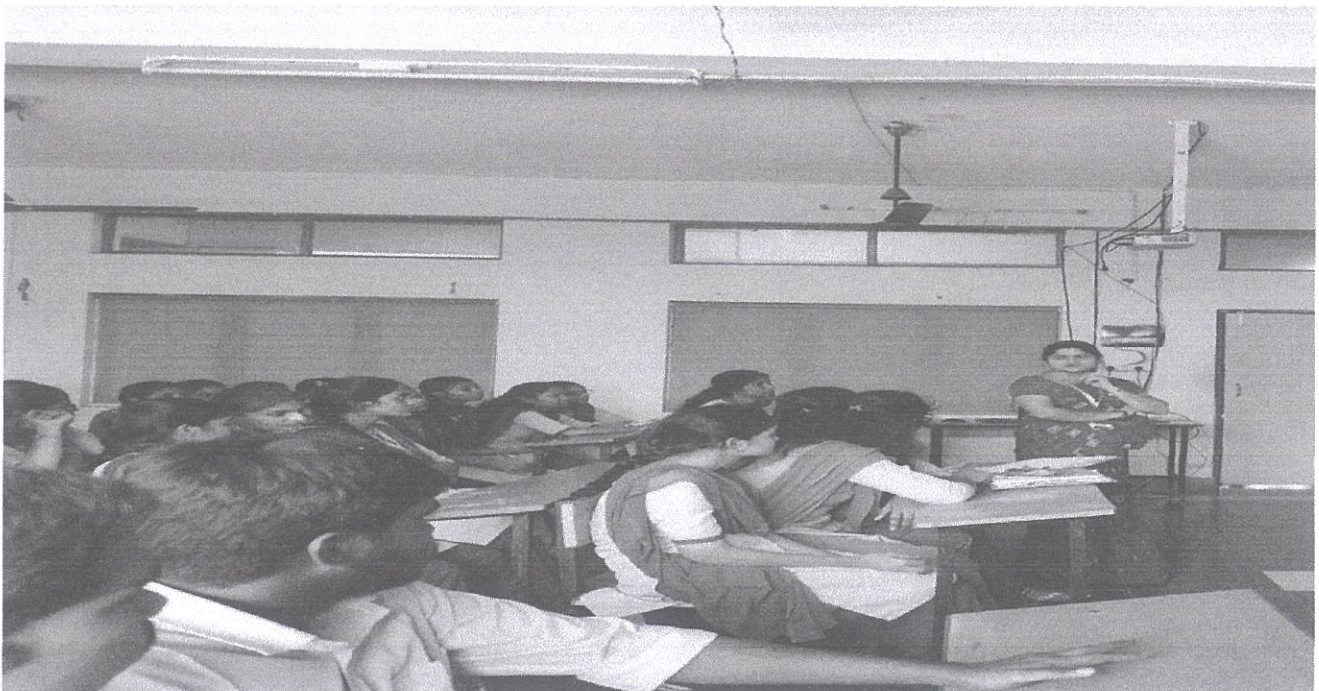
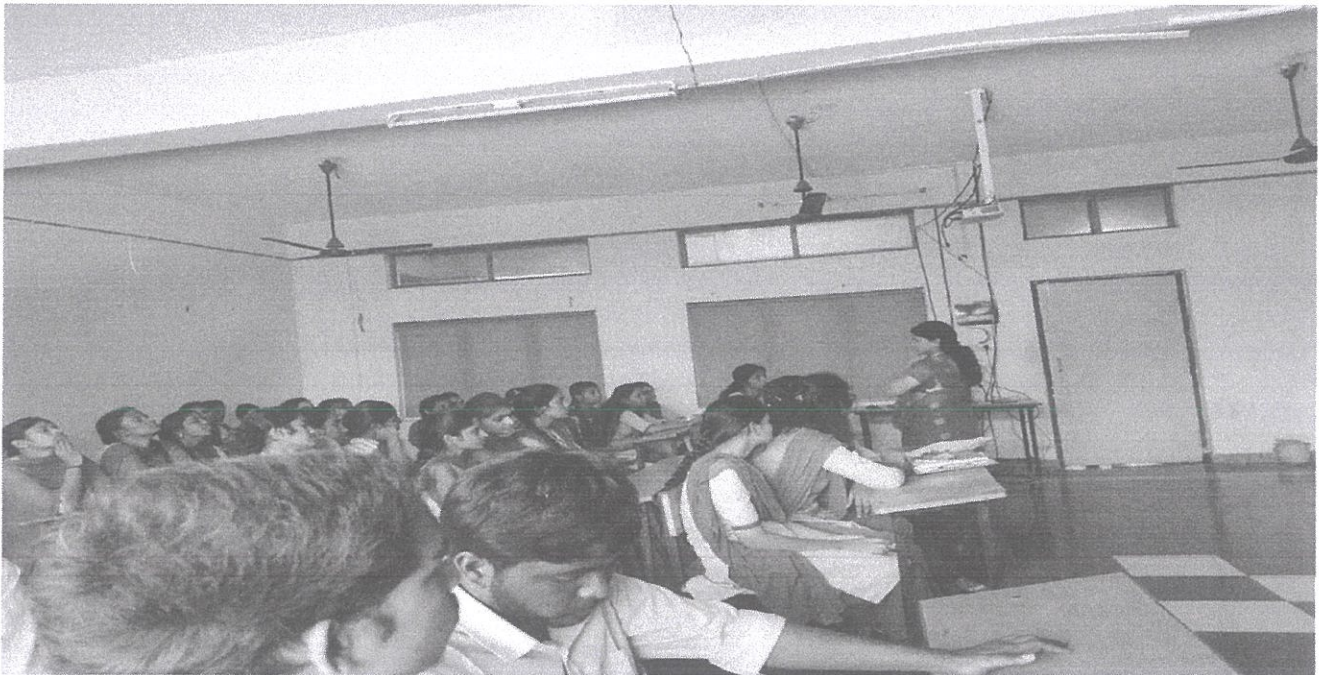


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The students of 4<sup>th</sup> year Pharm. D certificate program attending on “**BLOCKCHAIN TECHNOLOGY FOR PHARMACEUTICAL SUPPLY CHAINS**” by the Associate Professor Mrs. A. H.V. Santhoshi, Avanathi institute of Pharmaceutical Sciences

*B. Paul*  
Course Coordinator

*V. Uma Sankar*  
HOD



*tw*  
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Vizianagaram Dt., - 531162.

Avanathi Institute of Pharmaceutical Sciences

CHERUKUPALLY (V)  
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Bhogapuram (M), Vizianagaram Dist

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www.avanthipharma.ac.in, principal@avanthipharma.ac.in

Date : 03-02-2020 to 08-02-2020

Subject : "Blockchain technology for pharmaceutical supply chains" IV Pharm D

S. No	Roll No.	Student Name	21/04/19	22/04/19	23/04/19	24/04/19	25/04/19	26/04/19
1	16T51T0001	AGATA SIREESHA	A	A	A	A	A	A
2	16T51T0002	ASI JAYA LAKSHMI	✓	✓	✓	✓	✓	✓
3	16T51T0004	BOLEM OMKAR	A	✓	✓	✓	✓	✓
4	16T51T0006	DABBIRU MYDHINI	✓	✓	✓	✓	✓	✓
5	16T51T0007	GUJJU EMMANUEL	✓	✓	✓	✓	✓	✓
6	16T51T0008	J.PRAMEELA	✓	✓	A	✓	✓	✓
7	16T51T0009	KOTAGIRI JYOTSNA SAI MAHITHA	✓	✓	✓	✓	A	✓
8	16T51T0010	LEKKALA RAVITEJA	A	✓	✓	✓	✓	✓
9	16T51T0011	MATLAPUDI SUDEER KUMAR	✓	✓	A	✓	✓	A
10	16T51T0012	MATTAPALLI GLORY	✓	✓	✓	✓	✓	✓
11	16T51T0013	MURALA PRASANTHI	✓	A	✓	✓	A	✓
12	16T51T0014	NAKKA HEMA MADHURI	✓	✓	✓	✓	✓	✓
13	16T51T0015	NANDAM THANUSHA	✓	A	✓	✓	✓	✓
14	16T51T0016	NANDULA DURGA SRI LALITHA	A	✓	✓	✓	✓	✓
15	16T51T0017	P P RAMIYA	✓	✓	A	✓	✓	✓
16	16T51T0018	PALIKILA RISHITHA REDDY	✓	✓	✓	✓	✓	✓
17	16T51T0019	POLAKI JYOSHNA	✓	✓	A	✓	✓	✓
18	16T51T0020	PRATHUL PAINGOLI	✓	A	✓	✓	A	✓
19	16T51T0021	SANABOINA AKHILA	✓	✓	✓	✓	✓	✓
20	16T51T0022	SANNIBOYINA BHAVYA ANUSHA	✓	✓	✓	✓	✓	✓

Avanthi Institute of Pharmaceutical Sciences



  
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21	16T51T0023	SHEIK SANJEEDA AMREEN	✓	✓	✓	✓	✓	✓
22	16T51T0024	TIMMANA VENKATA SAI GEETHIKA	✓	✓	A	✓	✓	✓
23	16T51T0026	YELLETI SAINANDINI	A	A	A	A	A	A
24	16T51T0027	M.SUPRIYA MANI	✓	✓	✓	✓	✓	✓
25	16T51T0029	L. MANOJ REDDY	✓	✓	✓	✓	✓	✓
26	16T51T0030	T.BALA SARASWATHI	A	✓	✓	✓	✓	✓
27	15T51T0009	K SOWJANYA	✓	✓	✓	✓	✓	✓
28	15T51T0018	G ORIANA CRYSTAL	✓	✓	✓	✓	✓	A

*[Signature]*  
Course Coordinator

*[Signature]*  
HOD

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



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Date : 03-02-2020 to 08-02-2020  
No. of Students Enrolled : 28  
Subject : "Blockchain technology for pharmaceutical supply chains"  
IV Pharm. D

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	16T51T0001	Agata Sireesha	Nil	0%
2	16T51T0002	Asi Jaya Lakshmi	36	100%
3	16T51T0004	Bolem Omkar	30	83%
4	16T51T0006	Dabbiru Mydhini	36	100%
5	16T51T0007	Gujju Emmanuel	36	100%
6	16T51T0008	J.Prameela	30	83%
7	16T51T0009	Kotagiri Jyotsna Sai Mahitha	30	83%
8	16T51T0010	Lekkala Raviteja	30	83%
9	16T51T0011	Matlapudi Sudeer Kumar	24	66%
10	16T51T0012	Mattapalli Glory	36	100%
11	16T51T0013	Murala Prasanthi	24	66%
12	16T51T0014	Nakka Hema Madhuri	36	100%
13	16T51T0015	Nandam Thanusha	30	83%
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	30	83%



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18	16T51T0020	Prathul Paingoli	36	100%
19	16T51T0021	Sanaboina Akhila	30	83%
20	16T51T0022	Sanniboyina Bhavya Anusha	24	66%
21	16T51T0023	Sheik Sanjeeda Amreen	36	100%
22	16T51T0024	Timmana Venkata Sai Geethika	36	100%
23	16T51T0026	Yelleti Sainandini	Nil	0%
24	16T51T0027	M.Supriya Mani	36	100%
25	16T51T0029	L. Manoj Reddy	36	100%
26	16T51T0030	T.Bala Saraswathi	30	83%
27	15T51T0009	K Sowjanya	36	100%
28	15T51T0018	G Oriana Crystal	30	83%

*Breed*

**Course Coordinator**

*V. Uma Shankar*

**HOD**

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Bhogapuram (M), Vizianagaram Dist



*[Signature]*  
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## Certificate of Completion

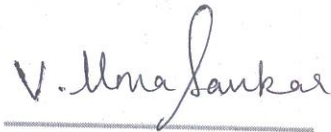
This is to certify that

Mr/Ms **GUJJU EMMANUEL**

bearing roll no. 16T51T0007 pursuing IV Pharm D has successfully completed value added course on

**“BLOCKCHAIN TECHNOLOGY FOR PHARMACEUTICAL SUPPLY CHAIN”**

held from 03-02-2020 to 08-02-2020.



Convener





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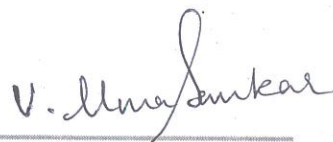
This is to certify that

Mr/Ms **KOTAGIRI JYOTSNA SAI MAHITHA**

bearing roll no. 16T51T0009 pursuing IV Pharm D has successfully completed value added course on

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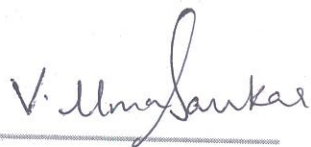
This is to certify that

Mr/Ms **MATLAPUDI SUDEER KUMAR**

bearing roll no. 16T51T0011 pursuing IV Pharm D has successfully completed value added course on

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This is to certify that

Mr/Ms **MURALA PRASANTHI**

bearing roll no. 16T51T0013 pursuing IV Pharm D has successfully completed value added course on

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## Certificate of Completion

This is to certify that

Mr/Ms **NANDAM THANUSHA**

bearing roll no. 16T51T0015 pursuing IV Pharm D has successfully completed value added course on

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held from 03-02-2020 to 08-02-2020.



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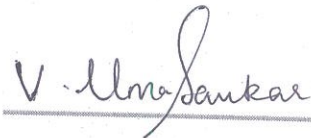
This is to certify that

Mr/Ms **PP RAMIYA**

bearing roll no. 16T51T0017 pursuing IV Pharm D has successfully completed value added course on

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held from 03-02-2020 to 08-02-2020.



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## Certificate of Completion

This is to certify that

Mr/Ms **POLAKI JYOSHNA**

bearing roll no. 16T51T0019 pursuing IV Pharm D has successfully completed value added course on

**“BLOCKCHAIN TECHNOLOGY FOR PHARMACEUTICAL SUPPLY CHAIN”**

held from 03-02-2020 to 08-02-2020.

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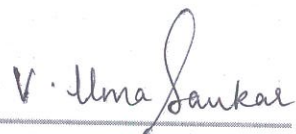
This is to certify that

Mr/Ms **SANABOINA AKHILA**

bearing roll no. 16T51T0021 pursuing IV Pharm D has successfully completed value added course on

**“BLOCKCHAIN TECHNOLOGY FOR PHARMACEUTICAL SUPPLY CHAIN”**

held from 03-02-2020 to 08-02-2020.

  
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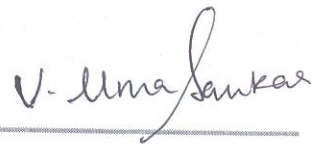
This is to certify that

Mr/Ms **BOLEM OMKAR**

bearing roll no. 16T51T0004 pursuing IV Pharm D has successfully completed value added course on

**“BLOCKCHAIN TECHNOLOGY FOR PHARMACEUTICAL SUPPLY CHAIN”**

held from 03-02-2020 to 08-02-2020.



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## Certificate of Completion

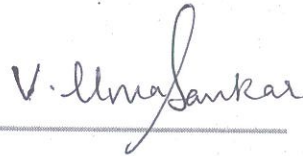
This is to certify that

Mr/Ms **AGATA SIREESHA**

bearing roll no. 16T51T0001 pursuing IV Pharm D has successfully completed value added course on

**“BLOCKCHAIN TECHNOLOGY FOR PHARMACEUTICAL SUPPLY CHAIN”**

held from 03-02-2020 to 08-02-2020.



Convener





Principal



ESTD : 2005

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## DEPARTMENT OF PHARMACY PRACTICE

Ref no: AIPS/Pharmacy Practice/2019-20/09

Date: 03-02-2020

### CIRCULAR

This is to inform all the students of III Pharm. D that a value-added course will be conducted on the topic "Natural products in pharmacology from traditional medicine to modern drug discovery" from 10/02/2020 to 15/02/2020 Interested students are required to sign-up for the above mentioned course with "DR. K. PADMAJA" Professor in the Department of Pharmacy.

  
Principal

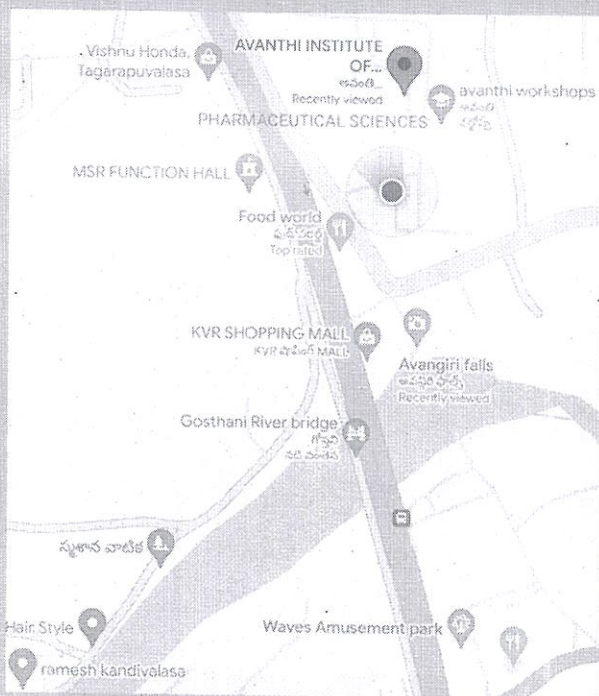


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Avanthi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162

## 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. K. Padmaja,  
Professor,



Raghu College  
Of Pharmacy

### Organizing Committee

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

Dr. V. C. Randeep, Assistant  
Professor

Dr. D. Subha Sri, Assistant Professor

### Members

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



## 6 Days Workshop

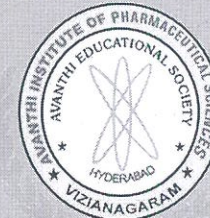
On

## Natural Products in Pharmacology, from Tradional Medicines to Modern Drug Discovery

10/02/2020 - 15/02/2020

Organized By:

## DEPARTMENT OF PHARMACY PRACTICE



## AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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KAKINADA)

CHERUKUPALLY (VILLAGE), NEAR  
TAGARAPUVALASA BRIDGE,  
BHOGAPURAM (MANDAL), VIZIANAGARAM  
Avanthi Institute of Pharmaceutical Sciences  
Gherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



Course Title	: Natural products in pharmacology from traditional medicine to modern drug discovery
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course Instructor	: Dr. K. Padmaja, Professor, Raghu Collage of Pharmacy, Dakamarri, Bheemunipatnam
Course Coordinator	: Dr. V.C. Randeep Raj, Assistant Professor
Dates	: 10-02-2020 to 15-02-2020
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/Pharm. D/2019/09</b>

### Objectives:

- Botanical and ethnopharmacological
- Extraction
- Bioactivity
- Pk & pd
- Safety and toxicology
- Bioprospecting

### Outcomes:

- Integration
- Ethical responsibility
- Research
- Regulatory frameworks
- Biodiversity



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## Syllabus

### 1. Introduction :

- Introduction
- Importance
- History
- Ethnopharmacology
- Botanical sources

### 2. Extraction and Isolation Techniques:

- Techniques for Extracting Bioactive Compounds
- Principles of Chromatography in Compound Purification
- Spectroscopy in Compound Identification
- Practical Workshop: Extraction and Isolation Techniques

### 3. Bioactivity Assessment and Pharmacokinetics:

- Methods for Evaluating Bioactivity
- In Vitro and In Vivo Pharmacological Screening
- Pharmacokinetics of Natural Products
- Practical Session: Bioactivity Assessment

### 4. Traditional Medicine to Modern Drug Discovery:

- Bridging Traditional and Modern Medicine
- Case Studies

### 5. Safety, Toxicology, and Biodiversity Conservation:

- Safety Profile of Natural Products
- Toxicology and Dose-Response Relationships
- Biodiversity Conservation and Sustainable Sourcing

### 6. Regulatory Compliance and Future Directions:

- Regulatory Requirements for Natural Product Development
- Intellectual Property Issues in Natural Product Research
- Emerging Trends in Natural Product Research

  
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Bhogapuram (M), Vizianagaram Dist




## TIMETABLE


### CLASS: III 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	Natural products in pharmacology from traditional medicine to modern drug discovery	Break	Natural products in pharmacology from traditional medicine to modern drug discovery	Lunch	Natural products in pharmacology from traditional medicine to modern drug discovery	Natural products in pharmacology from traditional medicine to modern drug discovery	Break	Natural products in pharmacology from traditional medicine to modern drug discovery	Natural products in pharmacology from traditional medicine to modern drug discovery
TUE									
WED									
THU									
FRI									
SAT									

  
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Reference book: "Natural Products in Medicinal Chemistry" edited by Steven M. Colegate and Russell J. Molyneux

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	10-02-2020	6hrs	<b>1. Introduction :</b> <ul style="list-style-type: none"><li>• Introduction</li><li>• Importance</li><li>• History</li><li>• Ethnopharmacology</li><li>• Botanical sources</li></ul>
2.		11-02-2020	6hrs	<b>2. Extraction and Isolation Techniques:</b> <ul style="list-style-type: none"><li>• Techniques for Extracting Bioactive Compounds</li><li>• Principles of Chromatography in Compound Purification</li><li>• Spectroscopy in Compound Identification</li><li>• Practical Workshop: Extraction and Isolation Techniques</li></ul>
3.		12-02-2020	6hrs	<b>3. Bioactivity Assessment and Pharmacokinetics:</b> <ul style="list-style-type: none"><li>• Methods for Evaluating Bioactivity</li><li>• In Vitro and In Vivo Pharmacological Screening</li><li>• Pharmacokinetics of Natural Products</li><li>• Practical Session: Bioactivity Assessment</li></ul>
4.		13-02-2020	6hrs	<b>4. Traditional Medicine to Modern Drug Discovery:</b> <ul style="list-style-type: none"><li>• Bridging Traditional and Modern Medicine</li><li>• Case Studies</li></ul>





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5.		14-02-2020	6hrs	<b>5. Safety, Toxicology, and Biodiversity Conservation:</b> <ul style="list-style-type: none"><li>• Safety Profile of Natural Products</li><li>• Toxicology and Dose-Response Relationships</li><li>• Biodiversity Conservation and Sustainable Sourcing</li></ul>
6.		15-02-2020	6hrs	<b>6. Regulatory Compliance and Future Directions:</b> <ul style="list-style-type: none"><li>• Regulatory Requirements for Natural Product Development</li><li>• Intellectual Property Issues in Natural Product Research</li><li>• Emerging Trends in Natural Product Research</li></ul>

  
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**Assessment:**

1. **What is the primary source of natural products used in pharmacology?**
  - a. Synthetic compounds
  - b. Minerals
  - c. Plant, animal, and microbial sources
  - d. Petrochemical derivatives
2. **Which historical practice involves the use of plant-based remedies for medicinal purposes?**
  - a. Modern pharmacology
  - b. Ethnopharmacology
  - c. Herbalism
  - d. Alchemy
3. **What is the significance of ethnopharmacology in the study of natural products?**
  - a. Identification of synthetic compounds
  - b. Understanding the cultural use of medicinal plants
  - c. Extraction techniques for minerals
  - d. Animal-based drug development
4. **Which chromatographic technique is commonly used for the isolation of bioactive compounds from natural sources?**
  - a. Gas Chromatography (GC)
  - b. Thin-Layer Chromatography (TLC)
  - c. High-Performance Liquid Chromatography (HPLC)
  - d. Paper Chromatography
5. **What role do spectroscopic methods play in natural product research?**
  - a. Extraction of compounds
  - b. Identification and characterization of compounds
  - c. Quantification of bioactivity
  - d. Separation of mixtures
6. **In pharmacology, what is the primary goal of assessing bioactivity?**
  - a. Identifying cultural significance
  - b. Evaluating the safety profile
  - c. Understanding mechanisms of action
  - d. Determining shelf life
7. **Which pharmacokinetic parameter involves the process of drug absorption, distribution, metabolism, and excretion?**
  - a. Bioavailability
  - b. Half-life
  - c. Clearance
  - d. Volume of distribution



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8. What is the primary challenge associated with ensuring the sustainable use of natural products in pharmacology?
  - a. Lack of bioactivity
  - b. Biodiversity conservation
  - c. Regulatory compliance
  - d. Intellectual property concerns
9. Why is understanding the safety profile of natural products crucial in drug development?
  - a. To increase production costs
  - b. To minimize toxicity risks
  - c. To limit the bioavailability of drugs
  - d. To expedite regulatory approval
10. What regulatory aspect is important for the development of natural products as pharmaceuticals?
  - a. Intellectual property protection
  - b. Sustainable sourcing
  - c. Ethnopharmacological validation
  - d. Regulatory compliance

  
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Date : 10-02-2020 to 15-02-2020  
No. of Students Enrolled : 26  
Subject : "Natural products in pharmacology from traditional medicine to modern drug discovery" III Pharm. D

S. No	Roll No.	Student Name
1	17T51T0001	Akula Sanjuna Revathi
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



*[Signature]*  
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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

**Course Coordinator**

**HOD**

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The students of 3<sup>rd</sup> year Pharm. D certificate program attending on “**NATURAL PRODUCTS IN PHARMACOLOGY FROM TRADITIONAL MEDICINE TO MODERN DRUG DISCOVERY**” by the Professor Dr. K. Padmaja, Raghu Collage of Pharmacy

  
**Course Coordinator**

  
**HOD**



  
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1	17T51T0001	Akula Sanjuna Revathi	✓	✓	✓	✓	✓	✓
2	17T51T0002	Batchu Divya Vani	✓	✓	✓	A	✓	✓
3	17T51T0003	BitraTanish	✓	✓	✓	✓	✓	✓
4	17T51T0004	Bonela Niharika	✓	✓	✓	✓	✓	✓
5	17T51T0005	Chandanapalli Sai Himabindu	✓	A	✓	✓	✓	✓
6	17T51T0006	Dakamuri Kanaka Satya Vasantha Sena	✓	✓	✓	✓	✓	✓
7	17T51T0007	Damodara Padmapriya	✓	✓	✓	✓	✓	✓
8	17T51T0008	Gannamaneni Saipadmini	✓	✓	✓	✓	✓	✓
9	17T51T0009	GinneHimaja	✓	✓	✓	✓	✓	✓
10	17T51T0010	Kalepu Manisha	A	✓	✓	✓	✓	A
11	17T51T0011	Kari Sreevani	✓	✓	✓	✓	✓	✓
12	17T51T0013	Shaik Nayab	✓	✓	✓	✓	✓	✓
13	17T51T0014	Kolipaka Karishma	✓	✓	✓	✓	✓	✓
14	17T51T0015	Kolla Jagadeeswari	✓	✓	✓	✓	✓	✓
15	17T51T0016	Marothu NavyaSree	✓	✓	✓	✓	✓	✓
16	17T51T0017	Mylapalli Abhisekhar	✓	✓	✓	✓	✓	✓
17	17T51T0018	Nimmal Prema Kumari	✓	✓	✓	✓	✓	✓
18	17T51T0019	Pentakota Akhila	✓	✓	✓	A	✓	A

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22	17T51T0023	Shruti Bharadwaj	✓	✓	✓	✓	✓	✓
23	17T51T0024	Vejendla Geetha	A	✓	✓	✓	✓	✓
24	17T51T0025	Tankala Mounika	✓	✓	A	✓	✓	✓
25	17T51T0026	Mendemu Ratna jyothirmai	✓	✓	✓	✓	✓	✓
26	16T51T0003	B. Hemantha Nissi	✓	✓	✓	✓	A	✓

  
Course Coordinator

  
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1	17T51T0001	Akula Sanjuna Revathi	36	100%
2	17T51T0002	Batchu Divya Vani	30	83%
3	17T51T0003	Bitra Tanish	36	100%
4	17T51T0004	Bonela Niharika	36	100%
5	17T51T0005	Chandanapalli Sai Himabindu	30	83%
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14	17T51T0015	Kolla Jagadeeswari	36	100%
15	17T51T0016	Marothu Navya Sree	36	100%
16	17T51T0017	Mylapalli Abhisekhar	36	100%
17	17T51T0018	Nimmal Prema Kumari	36	100%



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18	17T51T0019	Pentakota Akhila	24	66%
19	17T51T0020	Pirla Dhanya Swaroopa	36	100%
20	17T51T0021	Pulugurtha Sumathya	Nil	0%
21	17T51T0022	Savara Gunasekhar	30	83%
22	17T51T0023	Shruti Bharadwaj	36	100%
23	17T51T0024	Vejendla Geetha	30	83%
24	17T51T0025	Tankala Mounika	30	83%
25	17T51T0026	Mendemu Ratnajyothirmai	36	100%
26	16T51T0003	B. Hemantha Nissi	30	83%

  
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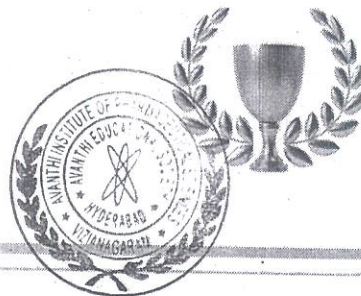
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## Certificate of Completion

This is to certify that Mr/Ms **KOLLA JAGADEESWARI** bearing roll no. 17T51T0015 pursuing III Pharm D has successfully completed value added course on “**NATURAL PRODUCTS IN PHARMACOLGY; FROM TRADITIONAL MEDICINE TO MODERN DRUG DISCOVERY**” held from 10-02-2020 to 15-02-2020.

Convener



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# Certificate of Completion

This is to certify that Mr/Ms **MAROTHU NAVYA SREE** bearing roll no. 17T51T0016 pursuing III Pharm D has successfully completed value added course on **“NATURAL PRODUCTS IN PHARMACOLGY; FROM TRADITIONAL MEDICINE TO MODERN DRUG DISCOVERY”** held from 10-02-2020 to 15-02-2020.

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# Certificate of Completion

This is to certify that Mr/Ms **MYLAPALLI ABHISEKHAR** bearing roll no. 17T51T0017 pursuing III Pharm D has successfully completed value added course on **“NATURAL PRODUCTS IN PHARMACOLGY; FROM TRADITIONAL MEDICINE TO MODERN DRUG DISCOVERY”** held from 10-02-2020 to 15-02-2020.

*V. Shree Sankar*

Convener



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# Certificate of Completion

This is to certify that Mr/Ms **NIMMAL PREMA KUMARI** bearing roll no. 17T51T0018 pursuing III Pharm D has successfully completed value added course on **“NATURAL PRODUCTS IN PHARMACOLGY; FROM TRADITIONAL MEDICINE TO MODERN DRUG DISCOVERY”** held from 10-02-2020 to 15-02-2020.

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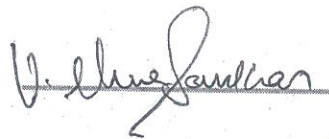
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## Certificate of Completion

This is to certify that Mr/Ms **B. Hemantha Nissi** bearing roll no. 16T51T0003 pursuing III Pharm D has successfully completed value added course on  
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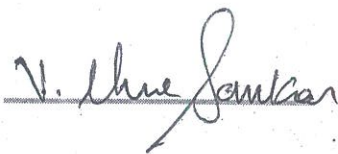
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# Certificate of Completion

This is to certify that Mr/Ms **KOLIPAKA KARISHMA** bearing roll no. 17T51T0014 pursuing III Pharm D has successfully completed value added course on “**NATURAL PRODUCTS IN PHARMACOLGY; FROM TRADITIONAL MEDICINE TO MODERN DRUG DISCOVERY**” held from 10-02-2020 to 15-02-2020.



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## Certificate of Completion

This is to certify that Mr/Ms **SHAIK NAYAB** bearing roll no. 17T51T0013 pursuing  
III Pharm D has successfully completed value added course on  
“**NATURAL PRODUCTS IN PHARMACOLGY; FROM TRADITIONAL MEDICINE TO  
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*V. Mageshwar*

Convener



*[Signature]*

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## Certificate of Completion

This is to certify that Mr/Ms **KARI SREEVANI** bearing roll no. 17T51T0011 pursuing III Pharm D has successfully completed value added course on “**NATURAL PRODUCTS IN PHARMACOLGY; FROM TRADITIONAL MEDICINE TO MODERN DRUG DISCOVERY**” held from 10-02-2020 to 15-02-2020.

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# Certificate of Completion

This is to certify that Mr/Ms **KALEPU MANISHA** bearing roll no. 17T51T0010  
pursuing III Pharm D has successfully completed value added course on  
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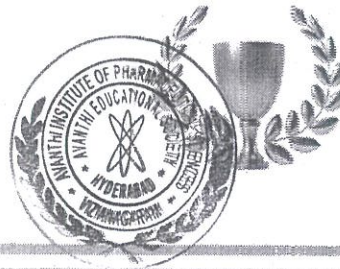
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## Certificate of Completion

This is to certify that Mr/Ms **GINNE HIMAJA** bearing roll no. 17T51T0009 pursuing III Pharm D has successfully completed value added course on **“NATURAL PRODUCTS IN PHARMACOLGY; FROM TRADITIONAL MEDICINE TO MODERN DRUG DISCOVERY”** held from 10-02-2020 to 15-02-2020.

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## DEPARTMENT OF PHARMACY

Ref no: AIPS/Pharmacy/2019-20/10

Date: 17-02-2020

### CIRCULAR

This is to inform all the students of II M. Pharmacy that a value-added course will be conducted on the topic "Impact of gene editing on treatment technology" from 24/02/2020 to 29/02/2020 Interested students are required to sign-up for the above mentioned course with "DR. M. PAVANI" Professor in the Department of Pharmacy.

  
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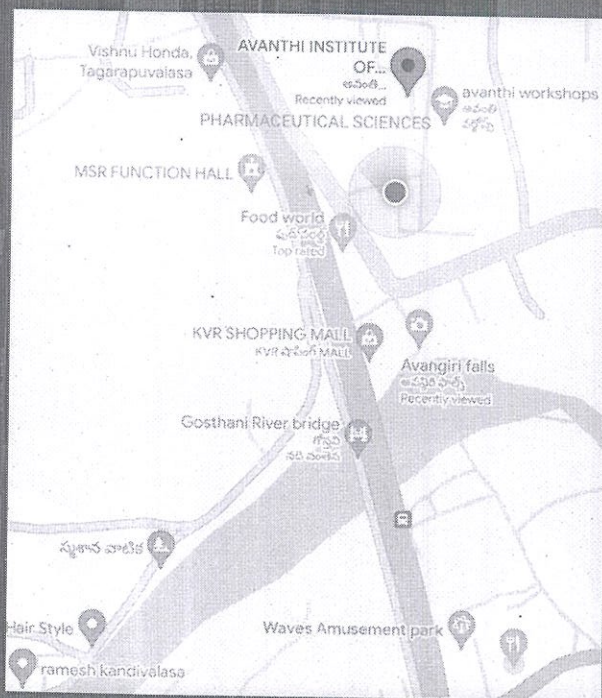




## Institution

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

### 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. Pavani,  
Professor



Srinivasa College Of  
Pharmacy

## Organizing Committee

Dr. Santhoshi Lakshmi, 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, Srinivasa  
host institute



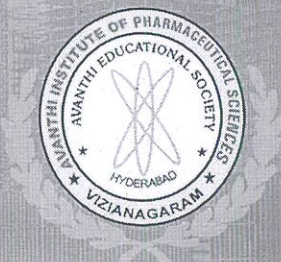
6 Days Workshop  
On

## Impact Of Gene Editing on Treatment Technologies

24/02/2020 - 29/02/2020

Organized By:

DEPARTMENT OF  
PHARMACY



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BHOGAPUR (VILLAGE), VIZIANAGARAM

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Course Title	: Impact of gene editing on treatment technology
Type of course	: Value Added Course (VAC)
Academic section/semester	: 2019-20
Course instructor	: Dr. M. Pavani, Professor, Srinivasa Collage of Pharmacy, Pothinamallayya Palem, Vishakhapatnam
Course Coordinator	: Mr. Ch. Madhu, Associate Professor
Dates	: 24-02-2020 to 29-02-2020
Duration	: 36 hours
Time	: 9:30AM to 4:20PM
Course code	: <b>VAC/M. Pharm/2019/10</b>

## Objectives:

- Explore the molecular mechanisms
- Safety
- Efficacy
- Personalized therapies

## Outcomes:

- Ethical aspects.
- Virtual pharmacy operations
- Data security
- Privacy compliance



  
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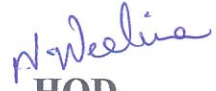
## Syllabus

- 1. Introduction to Telemedicine and Virtual Pharmacy:**
  - Overview of gene editing technologies: CRISPR-Cas9, TALENs, and zinc finger nucleases.
  - Historical context and development of gene editing tools.
  - Introduction to treatment technologies influenced by gene editing.
  - Case studies of successful gene editing applications in medical treatments.
- 2. Molecular Mechanisms of Gene Editing:**
  - In-depth exploration of the molecular mechanisms of CRISPR-Cas9.
  - Understanding DNA repair mechanisms involved in gene editing.
- 3. Ethical and Regulatory Considerations:**
  - Examination of ethical considerations in gene editing for medical purposes.
  - Overview of international and national regulatory frameworks.
  - Analysis of regulatory challenges and potential solutions.
- 4. Applications in Medical Treatment:**
  - Exploration of gene editing applications in treating genetic disorders.
  - Case studies
- 5. Safety, Efficacy, and Risk Assessment:**
  - Evaluation of safety considerations in gene editing interventions.
  - Discussion on the efficacy of gene editing technologies in medical contexts.
  - Case studies on the risks associated with gene editing in clinical trials.
- 6. Precision Medicine and Future Directions:**
  - Overview of precision medicine and its connection to gene editing.
  - Discussion on the potential impact of gene editing on personalized therapies.

  
**Course Coordinator**



  
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## TIME TABLE

### 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	Impact of gene editing on treatment technology	Break	Impact of gene editing on treatment technology	Lunch	Impact of gene editing on treatment technology	Impact of gene editing on treatment technology	Break	Impact of gene editing on treatment technology	Impact of gene editing on treatment technology
TUE									
WED									
THU									
FRI									
SAT									

### CLASS: II 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	Impact of gene editing on treatment technology	Break	Impact of gene editing on treatment technology	Lunch	Impact of gene editing on treatment technology	Impact of gene editing on treatment technology	Break	Impact of gene editing on treatment technology	Impact of gene editing on treatment technology
TUE									
WED									
THU									
FRI									
SAT									



  
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## CLASS: II 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	Impact of gene editing on treatment technology	Break	Impact of gene editing on treatment technology	Lunch	Impact of gene editing on treatment technology	Impact of gene editing on treatment technology	Break	Impact of gene editing on treatment technology	Impact of gene editing on treatment technology
TUE									
WED									
THU									
FRI									
SAT									

  
Course Coordinator

  
HOD  
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Reference book: "Gene Editing: Technologies and Applications" by Colin A.M. Semple, Andrew D. Smith Published by Cambridge University Press in the year 2016

S. NO	No. of Weeks	Dates	Duration 9:30-4:20 (6hrs)	Topics
1.	Week-1	24-02-2020	6hrs	<b>1. Introduction to Telemedicine and Virtual Pharmacy:</b> <ul style="list-style-type: none"><li>• Overview of gene editing technologies: CRISPR-Cas9, TALENs, and zinc finger nucleases.</li><li>• Historical context and development of gene editing tools.</li><li>• Introduction to treatment technologies influenced by gene editing.</li><li>• Case studies of successful gene editing applications in medical treatments.</li></ul>
2.		25-02-2020	6hrs	<b>2. Molecular Mechanisms of Gene Editing:</b> <ul style="list-style-type: none"><li>• In-depth exploration of the molecular mechanisms of CRISPR-Cas9.</li><li>• Understanding DNA repair mechanisms involved in gene editing.</li></ul>
3.		26-02-2020	6hrs	<b>3. Ethical and Regulatory Considerations:</b> <ul style="list-style-type: none"><li>• Examination of ethical considerations in gene editing for medical purposes.</li><li>• Overview of international and national regulatory frameworks.</li><li>• Analysis of regulatory challenges and potential solutions.</li></ul>



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4.		27-02-2020	6hrs	<b>4. Applications in Medical Treatment:</b> <ul style="list-style-type: none"><li>• Exploration of gene editing applications in treating genetic disorders.</li><li>• Case studies</li></ul>
5.		28-02-2020	6hrs	<b>5. Safety, Efficacy, and Risk Assessment:</b> <ul style="list-style-type: none"><li>• Evaluation of safety considerations in gene editing interventions.</li><li>• Discussion on the efficacy of gene editing technologies in medical contexts.</li><li>• Case studies on the risks associated with gene editing in clinical trials.</li></ul>
6.		29-02-2020	6hrs	<b>6. Precision Medicine and Future Directions:</b> <ul style="list-style-type: none"><li>• Overview of precision medicine and its connection to gene editing.</li><li>• Discussion on the potential impact of gene editing on personalized therapies.</li></ul>

*Lehe*

Course Coordinator

*N. Neelima*  
HOD

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**Assessment:**

1. **What is CRISPR-Cas9?**
  - a. A new antibiotic
  - b. A gene editing technology
  - c. A protein structure
  - d. A type of virus
2. **Which of the following is NOT a gene editing technique?**
  - a. CRISPR-Cas9
  - b. TALENs
  - c. Polymerase Chain Reaction (PCR)
  - d. Zinc Finger Nucleases
3. **What is the primary focus of gene editing in the context of treatment technology?**
  - a. Agricultural improvements
  - b. Enhancing physical fitness
  - c. Modifying human genetic material for therapeutic purposes
  - d. Environmental conservation
4. **Which DNA repair mechanism is often involved in gene editing?**
  - a. Base excision repair
  - b. Mismatch repair
  - c. Homologous recombination
  - d. Non-homologous end joining
5. **What is a key ethical consideration in gene editing for medical purposes?**
  - a. Financial implications
  - b. Informed consent
  - c. Public opinion
  - d. Research speed
6. **What regulatory aspect is crucial for overseeing gene editing applications?**
  - a. Environmental regulations
  - b. International trade agreements
  - c. Intellectual property laws
  - d. Bioethics guidelines
7. **In which medical field has gene editing shown significant success?**
  - a. Cardiology
  - b. Neurology
  - c. Oncology
  - d. Orthopedics
8. **What is a potential risk associated with gene editing interventions?**
  - a. Increased genetic diversity
  - b. Unintended off-target effects
  - c. Enhanced immune response
  - d. Improved therapeutic outcomes



  
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9. **How does gene editing contribute to precision medicine?**
- By increasing the cost of treatments
  - By targeting specific genetic factors for personalized therapies
  - By reducing the accessibility of medical interventions
  - By standardizing treatment approaches
10. **What is a current challenge in the field of gene editing for treatment technology?**
- Lack of public interest
  - Overregulation
  - Rapid technological obsolescence
  - Limited understanding of basic genetic principles

*Lehe*  
Course Coordinator

*N. Neelina*  
HOD

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Date : 24-02-2020 to 29-02-2020  
No. of Students Enrolled : 15  
Subject : Impact of gene editing on treatment technology  
II M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name
1	18T51S1601	Adari Prasanna
2	18T51S1602	Ashok Singh Chauhan
3	18T51S1603	Bolem Vema Lakshmi
4	18T51S1604	Dabbiru Kishore Kumar Patnaik
5	18T51S1605	Divya Garbhana
6	18T51S1606	Gasya Regena Angel
7	18T51S1607	Kalepu Sravan Kumar
8	18T51S1608	Kottada Aruna Kumar
9	18T51S1609	Ommi Swathi
10	18T51S1610	Pamula Swathanthrababu
11	18T51S1611	Potta Srinivasu
12	18T51S1612	Purri Yalli Sowjanya
13	18T51S1613	Tiwari Anshul
14	18T51S1614	Vangalapudi Revathi
15	18T51S1615	Vinay Kumar Nema

*Lehu*  
Course Coordinator



*HS*  
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Date : 24-02-2020 to 29-02-2020  
No. of Students Enrolled : 05  
Subject : Impact of gene editing on treatment technology  
II M. Pharmacy (Pharmacology)


S. No	Roll No.	Student Name
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2	18T51S0602	Gatreddy Venila Priya
3	18T51S0603	P Divya
4	18T51S0604	Satish Reddy Nadiminti
5	18T51S0605	P Vishwanath Reddy

  
Course Coordinator

  
HOD

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Date : 24-02-2020 to 29-02-2020  
No. of Students Enrolled : 28  
Subject : Impact of gene editing on treatment technology  
II M. Pharmacy (Pharmaceutics)

S. No	Roll No.	Student Name
1	18T51S0301	Akshay Kumar Galav
2	18T51S0302	Behara Jhansi
3	18T51S0303	Bosa Dhamodhini
4	18T51S0304	Chintapalli Syamala Lakshmi
5	18T51S0305	Chukka Bhargavi
6	18T51S0306	Dandu Venkata Dilip Vamsi Raju
7	18T51S0307	Devyani Jain
8	18T51S0308	Golagana Neerajavani
9	18T51S0309	Indranil Mukherjee
10	18T51S0310	Kakani Sai Madhuri
11	18T51S0311	Kovvada Aparna
12	18T51S0312	Malkapalli Nagendra Kumar
13	18T51S0313	Narayanarao Boddu
14	18T51S0314	Padala Madhu Sudhana Rao
15	18T51S0315	Pakalapati Mohana Manasa
16	18T51S0316	Patnana Manisha
17	18T51S0317	Pediredla Lalitha
18	18T51S0318	Penugurthi Monisha Roja

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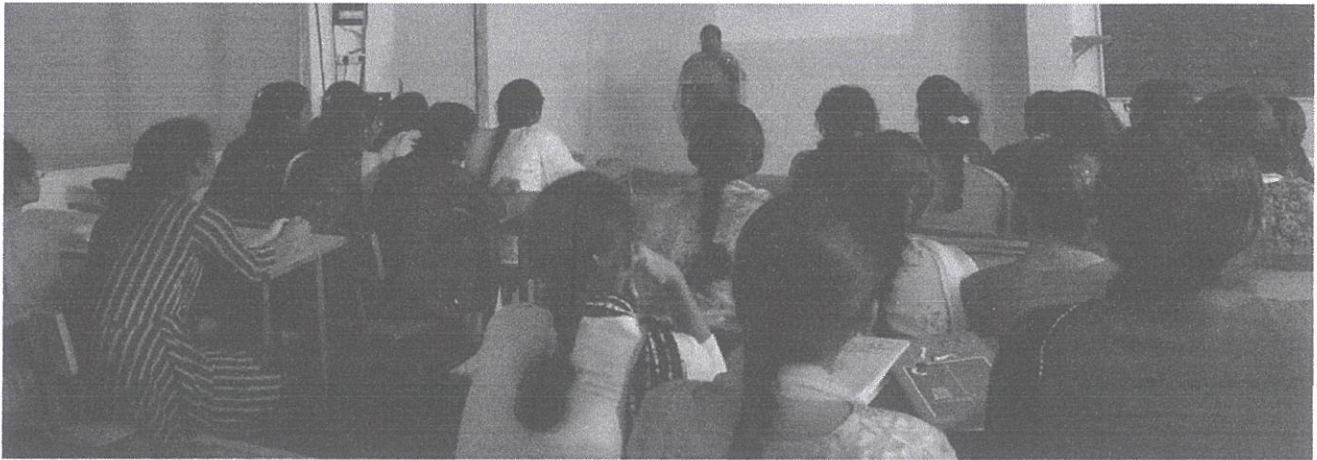


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The students of 2<sup>nd</sup> year M. Pharmacy certificate program attending on “**IMPACT OF GENE EDITING ON TREATMENT TECHNOLOGY**” by the Professor Dr. M. Pavani, Srinivasa Collage of Pharmacy

*lehe*  
**Course Coordinator**

*N. Neelima*  
**HOD**

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Date : 24-02-2020 to 29-02-2020

Subject : Impact of gene editing on treatment technology

II M. Pharmacy (Pharmacology)

S. No	Roll No.	Student Name	24/02/20	25/02/20	26/02/20	27/02/20	28/02/20	29/02/20
1	18T51S0601	Akula Padmavathi	✓	✓	✓	✓	✓	✓
2	18T51S0602	Gatreddy Venila Priya	✓	✓	✓	✓	✓	A
3	18T51S0603	P Divya	✓	✓	A	✓	✓	✓
4	18T51S0604	Satish Reddy Nadiminti	✓	✓	A	A	✓	✓
5	18T51S0605	P Vishwanath Reddy	✓	✓	✓	✓	A	✓

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Date : 24-02-2020 to 29-02-2020

Subject : Impact of gene editing on treatment technology

II M. Pharmacy (Pharmaceutics)

S. No	Roll No.	Student Name	24/02/20	25/02/20	26/02/20	27/02/20	28/02/20	29/02/20
1	18T51S0301	Akshay Kumar Galav	✓	✓	✓	✓	✓	✓
2	18T51S0302	Behara Jhansi	✓	✓	✓	✓	✓	✓
3	18T51S0303	Bosa Dhamodhini	✓	✓	✓	✓	✓	✓
4	18T51S0304	Chintapalli Syamala Lakshmi	✓	✓	✓	✓	✓	✓
5	18T51S0305	Chukka Bhargavi	✓	✓	✓	✓	✓	✓
6	18T51S0306	DanduVenkata Dilip Vamsi Raju	✓	A	✓	A	✓	✓
7	18T51S0307	Devyani Jain	✓	✓	✓	✓	✓	A
8	18T51S0308	Golagana Neerajavani	✓	✓	✓	✓	A	✓
9	18T51S0309	Indranil Mukherjee	✓	A	✓	✓	✓	✓
10	18T51S0310	Kakani Sai Madhuri	✓	✓	✓	✓	A	✓
11	18T51S0311	Kovvada Aparna	✓	✓	✓	✓	✓	✓
12	18T51S0312	Malkapalli Nagendra Kumar	✓	✓	✓	✓	✓	✓
13	18T51S0313	Narayanarao Boddu	✓	✓	✓	✓	✓	✓
14	18T51S0314	Padala Madhu Sudhana Rao	✓	✓	✓	✓	✓	✓
15	18T51S0315	Pakalapati MohanaManasa	✓	✓	✓	✓	✓	✓
16	18T51S0316	Patnana Manisha	✓	✓	✓	✓	✓	✓
17	18T51S0317	Pediredla Lalitha	✓	✓	✓	✓	✓	✓
18	18T51S0318	Penugurthi Monisha Roja	✓	✓	A	A	✓	✓
19	18T51S0319	Pinninti Aruna	A	✓	✓	✓	✓	✓

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20	18T51S0320	Sahukara Pavan Sai	A	A	A	A	A	A
21	18T51S0321	Sanjeeb Kumar Swain	✓	✓	✓	✓	✓	✓
22	18T51S0322	Talabattula Bharath Kumar	✓	✓	✓	✓	✓	✓
23	18T51S0323	Tirumlaireddy Lakshmi Sirisha	✓	✓	✓	✓	✓	✓
24	18T51S0324	VanamVara Lakshmi	✓	✓	✓	✓	✓	✓
25	18T51S0325	Varada Padmvathi	✓	✓	✓	✓	✓	✓
26	18T51S0326	Yadla Dilleswari	A	A	A	A	A	A
27	18T51S0327	Yalamanchil Lakshmi Priyanka	✓	✓	✓	✓	✓	✓
28	18T51S0328	Yellabilli Likitha	✓	✓	✓	✓	✓	✓

*Reddy*  
Course Coordinator

*N. Neelima*  
HOD

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Date : 24-02-2020 to 29-02-2020

Subject : Impact of gene editing on treatment technology II M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name	24/02/20	25/02/20	26/02/20	27/02/20	28/02/20	29/02/20
1	18T51S1601	Adari Prasanna	✓	✓	✓	✓	✓	✓
2	18T51S1602	Ashok Singh Chauhan	A	A	A	A	A	A
3	18T51S1603	Bolem Vema Lakshmi	✓	✓	✓	✓	✓	✓
4	18T51S1604	Dabbiru Kishore Kumar Patnaik	A	A	A	A	A	A
5	18T51S1605	Divya Garbhana	✓	✓	✓	✓	✓	✓
6	18T51S1606	Gasya Regena Angel	✓	✓	✓	A	✓	✓
7	18T51S1607	Kalepu Sravan Kumar	✓	✓	✓	✓	✓	✓
8	18T51S1608	Kottada Aruna Kumar	✓	✓	✓	✓	✓	✓
9	18T51S1609	Ommi Swathi	✓	✓	✓	✓	✓	✓
10	18T51S1610	Pamula Swathanthrababu	✓	✓	✓	✓	✓	✓
11	18T51S1611	Potta Srinivasu	✓	✓	✓	✓	✓	✓
12	18T51S1612	Purri Yalli Sowjanya	✓	✓	✓	✓	✓	✓
13	18T51S1613	Tiwari Anshul	✓	✓	✓	✓	✓	✓
14	18T51S1614	Vangalapudi Revathi	✓	✓	✓	✓	✓	✓
15	18T51S1615	Vinay Kumar Nema	✓	✓	✓	✓	✓	✓

*Ch*

Course Coordinator

*N. Neelima*  
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Date : 24-02-2020 to 29-02-2020  
No. of Students Enrolled : 15  
Subject : Impact of gene editing on treatment technology  
II M. Pharmacy (Pharmaceutical Analysis)

S. No	Roll No.	Student Name	No. of classes attended	% of classes attended
1	18T51S1601	Adari Prasanna	36	100%
2	18T51S1602	Ashok Singh Chauhan	Nil	0%
3	18T51S1603	Bolem Vema Lakshmi	36	100%
4	18T51S1604	Dabbiru Kishore Kumar Patnaik	Nil	0%
5	18T51S1605	Divya Garbhana	36	100%
6	18T51S1606	Gasya Regena Angel	30	83%
7	18T51S1607	Kalepu Sravan Kumar	36	100%
8	18T51S1608	Kottada Aruna Kumar	36	100%
9	18T51S1609	Ommi Swathi	36	100%
10	18T51S1610	Pamula Swathanthrababu	36	100%
11	18T51S1611	Potta Srinivasu	36	100%
12	18T51S1612	Purri Yalli Sowjanya	36	100%
13	18T51S1613	Tiwari Anshul	36	100%
14	18T51S1614	Vangalapudi Revathi	36	100%
15	18T51S1615	Vinay Kumar Nema	36	100%

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Course Coordinator

*N. Deelisa*  
HOD



*ts*  
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3	18T51S0603	P Divya	30	83%
4	18T51S0604	Satish Reddy Nadiminti	24	66%
5	18T51S0605	P Vishwanath Reddy	30	83%

  
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5	18T51S0305	Chukka Bhargavi	36	100%
6	18T51S0306	Dandu Venkata Dilip Vamsi Raju	24	66%
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14	18T51S0314	Padala Madhu Sudhana Rao	36	100%
15	18T51S0315	Pakalapati Mohana Manasa	36	100%
16	18T51S0316	Patnana Manisha	36	100%
17	18T51S0317	Pediredla Lalitha	36	100%



  
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18	18T51S0318	Penugurthi Monisha Roja	24	66%
19	18T51S0319	Pinninti Aruna	30	83%
20	18T51S0320	Sahukara Pavan Sai	Nil	0%
21	18T51S0321	Sanjeeb Kumar Swain	36	100%
22	18T51S0322	Talabattula Bharath Kumar	36	100%
23	18T51S0323	Tirumlaireddy Lakshmi Sirisha	36	100%
24	18T51S0324	Vanam Vara Lakshmi	36	100%
25	18T51S0325	Varada Padmvathi	36	100%
26	18T51S0326	Yadla Dilleswari	Nil	0%
27	18T51S0327	Yalamanchil Lakshmi Priyanka	36	100%
28	18T51S0328	Yellabilli Likitha	36	100%

  
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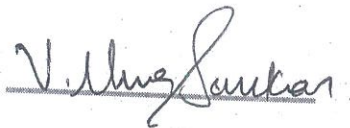
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## Certificate of Completion

This is to certify that Mr/Ms **VINAY KUMAR NEMA** bearing roll no. 18F51S1615 pursuing II M Pharmacy has successfully completed value added course on **“IMPACT ON GENE EDITING ON TREATMENT TECHNOLOGIES”** held from 24-02-2020 to 29-02-2020.



Convener





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## Certificate of Completion

This is to certify that Mr/Ms **PINNINTI ARUNA** bearing roll no. 18T51S0319 pursuing II M Pharmacy has successfully completed value added course on **“IMPACT ON GENE EDITING ON TREATMENT TECHNOLOGIES”** held from 24-02-2020 to 29-02-2020.

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## Certificate of Completion

This is to certify that Mr/Ms **NARAYANARAO BODDU** bearing roll no. 18T51S0313 pursuing II M Pharmacy has successfully completed value added course on **“IMPACT ON GENE EDITING ON TREATMENT TECHNOLOGIES”** held from 24-02-2020 to 29-02-2020.

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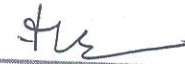
## Certificate of Completion

This is to certify that Mr/Ms **DEVYANI JAIN** bearing roll no. 18T51S0307 pursuing  
II M Pharmacy has successfully completed value added course on  
“**IMPACT ON GENE EDITING ON TREATMENT TECHNOLOGIES**”  
held from 24-02-2020 to 29-02-2020.



Convener





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## Certificate of Completion

This is to certify that Mr/Ms **DANDU VENKATA DILIP VAMSI RAJU**  
bearing roll no. 18T51S0306 pursuing II M Pharmacy has successfully completed value added  
course on

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## Certificate of Completion

This is to certify that Mr/Ms **CHUKKA BHARGAVI** bearing roll no. 18T51S0305  
pursuing II M Pharmacy has successfully completed value added course on  
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## Certificate of Completion

This is to certify that Mr/Ms **GATREDDY VENILA PRIYA** bearing roll no. 18T51S0602 pursuing II M Pharmacy has successfully completed value added course on **“IMPACT ON GENE EDITING ON TREATMENT TECHNOLOGIES”** held from 24-02-2020 to 29-02-2020.

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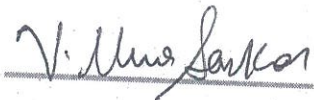
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## Certificate of Completion

This is to certify that Mr/Ms **AKULA PADMAVATHI** bearing roll no. 18T51S0601 pursuing II M Pharmacy has successfully completed value added course on **“IMPACT ON GENE EDITING ON TREATMENT TECHNOLOGIES”** held from 24-02-2020 to 29-02-2020.



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## Certificate of Completion

This is to certify that Mr/Ms **VANAM VARA LAKSHMI** bearing roll no. 18T51S0324 pursuing II M Pharmacy has successfully completed value added course on **“IMPACT ON GENE EDITING ON TREATMENT TECHNOLOGIES”** held from 24-02-2020 to 29-02-2020.

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## Certificate of Completion

This is to certify that Mr/Ms **YELLABILLI LIKITHA** bearing roll no. 18T51S0328 pursuing II-M Pharmacy has successfully completed value added course on **“IMPACT ON GENE EDITING ON TREATMENT TECHNOLOGIES”** held from 24-02-2020 to 29-02-2020.

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