



# JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

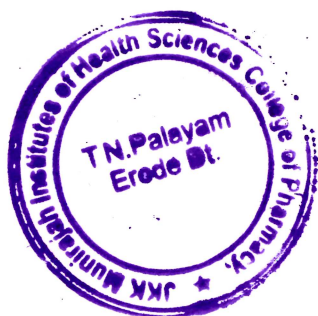
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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

## 1.2.1 NUMBER OF ADD ON / CERTIFICATES / VALUE ADDED PROGRAM OFFERED DURING THE LAST FIVE YEARS.

ACADEMIC YEAR 2020-2021

Total Number of Courses: 05

S.No	Name of ADD ON / Certificates Programs offered	Course code (If any)	Duration of Course (Hrs)	No of Students Enrolled in the Year
1	FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY	FSC2001	32	47
2	TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY AND MANUFACTURING	TTP2002	30	59
3	ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH	AEM2003	31	92
4	INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY	PDD2004	30	73
5	HEALTH POLICY AND ADMINISTRATION	HPA2005	31	17



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## ADD-ON COURSE - SYLLABUS


Course Code : FSC2001  
Course Name : FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY  
Date : 13.06.2020 to 11.07.2020 (All Saturday)  
Course & Year : B. Pharm Final Year  
Course Objective : Participants will gain the knowledge and skills necessary to contribute to the formulation, development, and marketing of innovative face serums in the cosmetic industry.

S. No	Topic	Hours
1	<b>Module-I: INTRODUCTION:</b> History of facial serums, Formulation of facial serum, Types	10
2	<b>Module-II: SELECTION OF FACIAL SERUM:</b> Application of facial serum, few steps for how to apply a serum,	11
3	<b>Module-III: BENEFITS OF USING FACIAL SERUM:</b> Available marketed products, Evaluation of facial serum, Report	11


### Course Outcome:

After the successful completion of this course, the student shall be able to:

1. Acquire high knowledge about facial serum.
2. Have a critical way of thinking based on current health care development.

  
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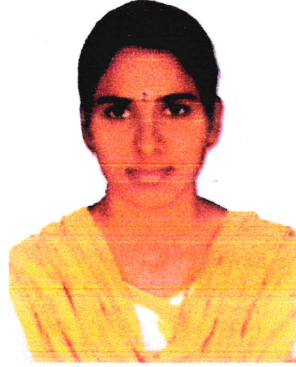
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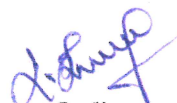
## ADD-ON COURSE NAME: FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY

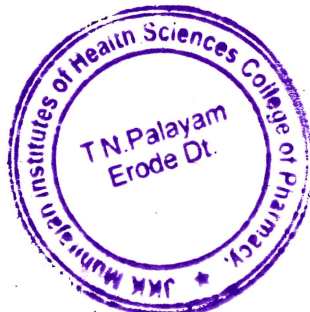
Course Code: FSC2001


### RESOURCE PERSON



**Name** : Ms. A. R. GOMATHI  
**Qualification** : M.Pharm.,  
**Designation** : Assistant Professor  
**Department** : Pharmaceutics  
**Organization** : JKK Munirajah Institute of Health Sciences College of Pharmacy,  
Erode, Tamilnadu.  
**Area of Specialization** : Pharmaceutical Formulation, Pharmaceutical Engineering, Novel Drug  
Delivery System, Biopharmaceutics, Cosmetic Science.  
**Phone number** : +91 83445 45304  
**Mail-ID** : [argomathi@jkkmihsep.org](mailto:argomathi@jkkmihsep.org)  
**Experience** : 02 Years 03 Months

  
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## ADD-ON COURSE NAME: FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY

Course Code: FSC2001

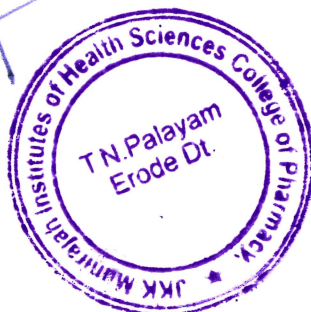
### RESOURCE PERSON



**Name** : DR. D. CHRISTOPHER VIMALSON  
**Qualification** : M. Pharm., Ph.D.,  
**Designation** : Associate Professor  
**Department** : Pharmaceutics  
**Organization** : United College of Pharmacy, Periyanaickenpalayam,  
Coimbatore, Tamilnadu.  
**Area of Specialization** : Pharmaceutical Formulation, Nanotechnology, Novel Drug Delivery  
System, Biopharmaceutics & Pharmacokinetics, Targeting Drug Delivery  
System.  
**Phone number** : +91 98438 71165  
**Mail-ID** : [crispharmacy@gmail.com](mailto:crispharmacy@gmail.com)  
**Experience** : 12 Year 02 Months

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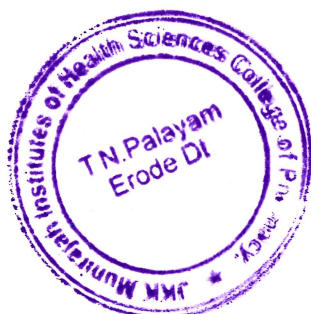
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## ADD-ON COURSE - SCHEDULE

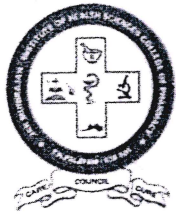
Course Code : FSC2001  
Course Name : FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY  
Date : 13.06.2020 to 11.07.2020 (All Saturday)  
Course & Year : B. Pharm Final Year

S. No	Topic	Hours
1	UNIT-I: INTRODUCTION: History of facial serums	13.06.2020 DR. D. Christopher vimalson & Ms. A. R. Gomathi
2	Formulation of facial serum, Types	20.06.2020 DR. D. Christopher vimalson & Ms. A. R. Gomathi
3	UNIT-II: SELECTION OF FACIAL SERUM: Application of facial serum, few steps for how to apply a serum	27.06.2020 DR. D. Christopher vimalson & Ms. A. R. Gomathi
4	UNIT-III: BENEFITS OF USING FACIAL SERUM: Available marketed products	04.07.2020 DR. D. Christopher vimalson & Ms. A. R. Gomathi
5	Evaluation of facial serum, Report	11.07.2020 DR. D. Christopher vimalson & Ms. A. R. Gomathi

  
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## FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY (FSC2001)

Name of Student: BHARATHKUMAR. S

Registration No: 561794010

Date: 11/07/23

Answer All Multiple-Choice Questions (10 × 3 = 30)

Course & Year: B.Pharm Final year

Semester:

Marks Secured:

27  
30

1. What is the primary purpose of a facial serum?

- a) To cleanse the skin
- b) To moisturize the skin
- c) To provide targeted skincare benefits
- d) To exfoliate the skin

2. Which of the following ingredients is commonly found in anti-aging serums?

- a) Hyaluronic acid
- b) Benzoyl peroxide
- c) Vitamin C
- d) Salicylic acid

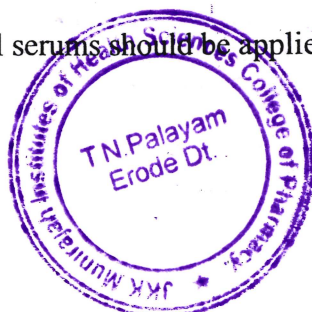
3. What skin type might benefit most from a hydrating facial serum?


- a) Oily
- b) Dry
- c) Normal
- d) Sensitive

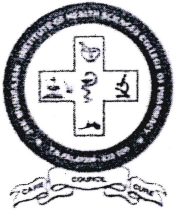
4. Which type of facial serum is designed to reduce the appearance of dark spots and uneven skin tone?

- a) Hydrating serum
- b) Anti-aging serum
- c) Brightening serum
- d) Acne-fighting serum

5. True or False: Facial serums should be applied before moisturizer in your skincare routine.



  
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6. Which vitamin is often used in serums to promote collagen production and skin elasticity?

- a)  Vitamin A (Retinol)
- b)  Vitamin E
- c)  Vitamin B5 (Panthenol)
- d)  Vitamin K

7. What should you do if you experience skin irritation or redness after using a new facial serum?

- a)  Apply more serum to soothe the skin
- b)  Continue using the serum as directed
- c)  Discontinue use and consult a dermatologist
- d)  Mix the serum with a moisturizer to dilute it

8. Which of the following serums is suitable for addressing acne-prone skin?

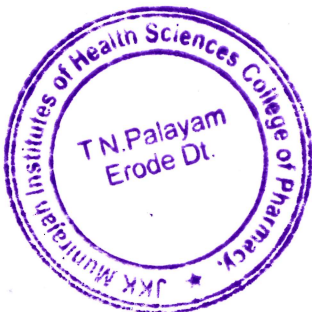
- a)  Hyaluronic acid serum
- b)  Vitamin C serum
- c)  Salicylic acid serum
- d)  Collagen-boosting serum

9. How often should you typically use a facial serum in your skincare routine?

- a)  Once a week
- b)  Twice a day
- c)  Every other day
- d)  Only on special occasions

10. What is the general order of application for skincare products when using a facial serum?

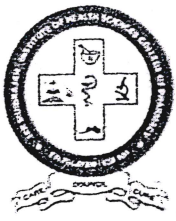
- a)  Cleanser, serum, moisturizer, sunscreen
- b)  Serum, cleanser, moisturizer, sunscreen
- c)  Cleanser, moisturizer, serum, sunscreen
- d)  Serum, cleanser, sunscreen, moisturizer





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## FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY (FSC2001)

Name of Student: Dinesh . Q

Registration No: 561794014

Date: 11.07.2023

Course & Year: B.Pharm, Final year

Semester:

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary purpose of a facial serum?

- a) To cleanse the skin
- b) To moisturize the skin
- c) To provide targeted skincare benefits
- d) To exfoliate the skin

2. Which of the following ingredients is commonly found in anti-aging serums?

- a) Hyaluronic acid
- b) Benzoyl peroxide
- c) Vitamin C
- d) Salicylic acid

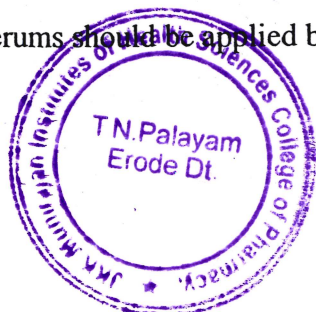
3. What skin type might benefit most from a hydrating facial serum?

- a) Oily
- b) Dry
- c) Normal
- d) Sensitive

4. Which type of facial serum is designed to reduce the appearance of dark spots and uneven skin tone?

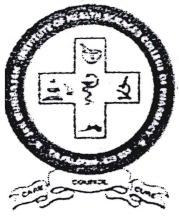
- a) Hydrating serum
- b) Anti-aging serum
- c) Brightening serum
- d) Acne-fighting serum

5. True or False: Facial serums should be applied before moisturizer in your skincare routine.



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6. Which vitamin is often used in serums to promote collagen production and skin elasticity?

- a) Vitamin A (Retinol)
- b) Vitamin E
- c) Vitamin B5 (Panthenol)
- d) Vitamin K

7. What should you do if you experience skin irritation or redness after using a new facial serum?

- a) Apply more serum to soothe the skin
- b) Continue using the serum as directed
- c) Discontinue use and consult a dermatologist
- d) Mix the serum with a moisturizer to dilute it

8. Which of the following serums is suitable for addressing acne-prone skin?

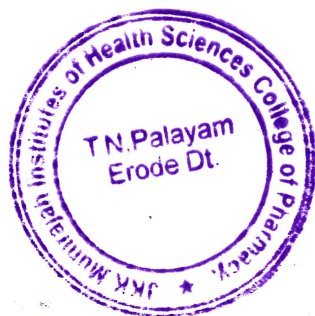
- a) Hyaluronic acid serum
- b) Vitamin C serum
- c) Salicylic acid serum
- d) Collagen-boosting serum


9. How often should you typically use a facial serum in your skincare routine?

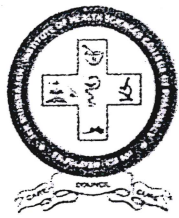
- a) Once a week
- b) Twice a day
- c) Every other day
- d) Only on special occasions

10. What is the general order of application for skincare products when using a facial serum?

- a) Cleanser, serum, moisturizer, sunscreen
- b) Serum, cleanser, moisturizer, sunscreen
- c) Cleanser, moisturizer, serum, sunscreen
- d) Serum, cleanser, sunscreen, moisturizer



  
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## FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY (FSC2001)

Name of Student: *Dinesh .D*

Course & Year: *B.Pharm Final Year*

Registration No: *561794015*

Semester:

Date: *11.07.2020*

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary purpose of a facial serum?

- a) To cleanse the skin
- b) To moisturize the skin
- c) To provide targeted skincare benefits
- d) To exfoliate the skin

*24*  

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*30*

2. Which of the following ingredients is commonly found in anti-aging serums?

- a) Hyaluronic acid
- b) Benzoyl peroxide
- c) Vitamin C
- d) Salicylic acid

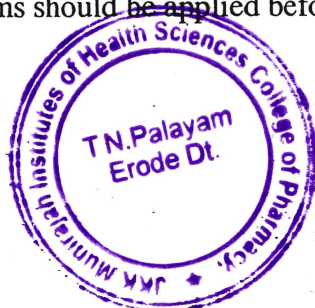
3. What skin type might benefit most from a hydrating facial serum?

- a) Oily
- b) Dry
- c) Normal
- d) Sensitive

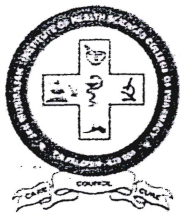
4. Which type of facial serum is designed to reduce the appearance of dark spots and uneven skin tone?

- a) Hydrating serum
- b) Anti-aging serum
- c) Brightening serum
- d) Acne-fighting serum

5. True or False: Facial serums should be applied before moisturizer in your skincare routine.



*[Signature]*  
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6. Which vitamin is often used in serums to promote collagen production and skin elasticity?

- a) Vitamin A (Retinol)
- b) Vitamin E
- c) Vitamin B5 (Panthenol)
- d) Vitamin K

7. What should you do if you experience skin irritation or redness after using a new facial serum?

- a) Apply more serum to soothe the skin
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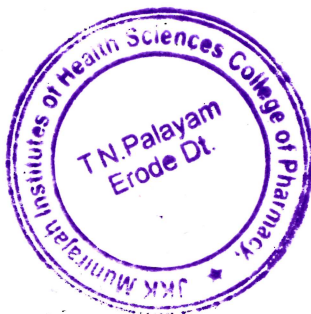
- a) Hyaluronic acid serum
- b) Vitamin C serum
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- d) Collagen-boosting serum


9. How often should you typically use a facial serum in your skincare routine?

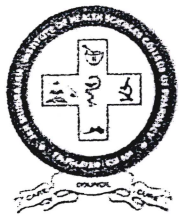
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- a) Cleanser, serum, moisturizer, sunscreen
- b) Serum, cleanser, moisturizer, sunscreen
- c) Cleanser, moisturizer, serum, sunscreen
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## FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY (FSC2001)

Name of Student: GAYATHRI B

Registration No: 561794016

Date: 11.07.20

Answer All Multiple-Choice Questions (10 × 3 = 30)

Course & Year: B.Pharm Final year

Semester:

Marks Secured:

24  
-----  
30

1. What is the primary purpose of a facial serum?

- a) To cleanse the skin
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- d) To exfoliate the skin

2. Which of the following ingredients is commonly found in anti-aging serums?

- a) Hyaluronic acid
- b) Benzoyl peroxide
- c) Vitamin C
- d) Salicylic acid

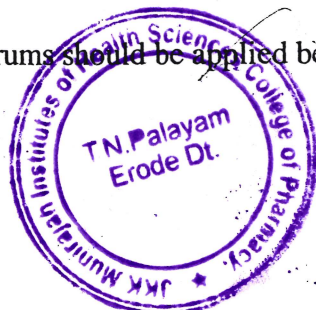
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- a) Oily
- b) Dry
- c) Normal
- d) Sensitive

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- a) Hydrating serum
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- c) Brightening serum
- d) Acne-fighting serum

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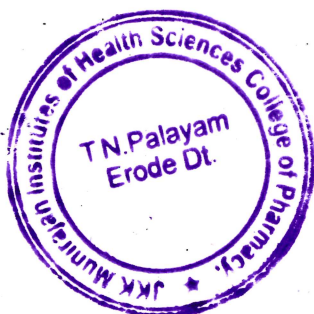
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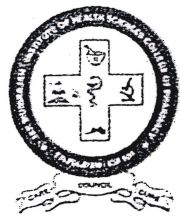
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- b) Serum, cleanser, moisturizer, sunscreen
- c) Cleanser, moisturizer, serum, sunscreen
- d) Serum, cleanser, sunscreen, moisturizer



  
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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

## FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY (FSC2001)

Name of Student: Gowri sankar .k

Course & Year: B.Pharm Final Year.

Registration No: 561794019

Semester:

Date: 11.7.20

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

24  
-----  
30

1. What is the primary purpose of a facial serum?

- a) To cleanse the skin
- b) To moisturize the skin
- c) To provide targeted skincare benefits
- d) To exfoliate the skin

2. Which of the following ingredients is commonly found in anti-aging serums?

- a) Hyaluronic acid
- b) Benzoyl peroxide
- c) Vitamin C
- d) Salicylic acid

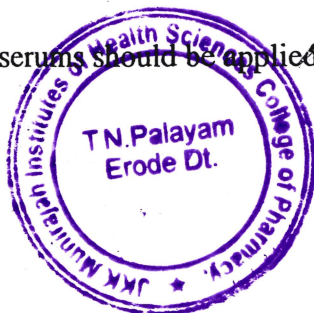
3. What skin type might benefit most from a hydrating facial serum?

- a) Oily
- b) Dry
- c) Normal
- d) Sensitive

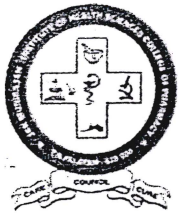
4. Which type of facial serum is designed to reduce the appearance of dark spots and uneven skin tone?

- a) Hydrating serum
- b) Anti-aging serum
- c) Brightening serum
- d) Acne-fighting serum

5. True or False: Facial serums should be applied before moisturizer in your skincare routine.



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6. Which vitamin is often used in serums to promote collagen production and skin elasticity?

- a)  Vitamin A (Retinol)
- b)  Vitamin E
- c)  Vitamin B5 (Panthenol)
- d)  Vitamin K

7. What should you do if you experience skin irritation or redness after using a new facial serum?

- a)  Apply more serum to soothe the skin
- b)  Continue using the serum as directed
- c)  Discontinue use and consult a dermatologist
- d)  Mix the serum with a moisturizer to dilute it

8. Which of the following serums is suitable for addressing acne-prone skin?

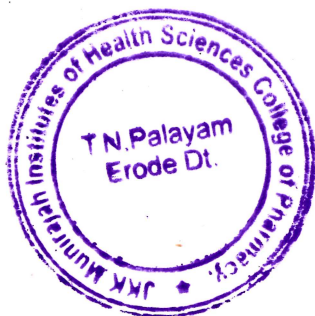
- a)  Hyaluronic acid serum
- b)  Vitamin C serum
- c)  Salicylic acid serum
- d)  Collagen-boosting serum


9. How often should you typically use a facial serum in your skincare routine?

- a)  Once a week
- b)  Twice a day
- c)  Every other day
- d)  Only on special occasions

10. What is the general order of application for skincare products when using a facial serum?

- a)  Cleanser, serum, moisturizer, sunscreen
- b)  Serum, cleanser, moisturizer, sunscreen
- c)  Cleanser, moisturizer, serum, sunscreen
- d)  Serum, cleanser, sunscreen, moisturizer



  
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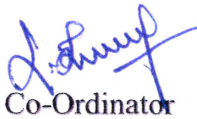
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## ADD-ON COURSE: ANSWER KEY


Course Code : FSC2001  
Course Name : FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY  
Date : 13.06.2020 to 11.07.2020 (All Saturday)  
Course & Year : B. Pharm Final Year

## ANSWER KEY

1. c) To provide targeted skincare benefits
2. c) Vitamin C
3. b) Dry
4. c) Brightening serum
5. True
6. a) Vitamin A (Retinol)
7. c) Discontinue use and consult a dermatologist
8. c) Salicylic acid serum
9. b) Twice a day
10. b) Serum, cleanser, moisturizer, sunscreen

  
Co-Ordinator



  
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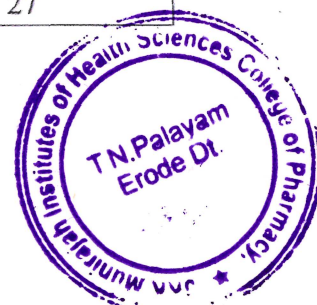
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## MARK STATEMENT

Course Code : FSC2001  
Course Name : FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY  
Date : 13.06.2020 to 11.07.2020 (All Saturday)  
Course & Year : B. Pharm Final Year

S.No	Student Name	Registration Number	Mark Secured
1	AFREEN N	561794001	24
2	AISHWARYA J	561794002	27
3	AJITHKUMAR E	561794003	24
4	ARUNRAJA R	561794005	27
5	BALAJI R	561794006	30
6	BAVADARINI V	561794008	27
7	BHARATHKUMAR S	561794010	27
8	BHAVATHARANI S	561794011	21
9	DEVI E	561794012	24
10	DINESH C	561794014	27
11	DINESH D	561794015	24
12	GAYATHRI B	561794016	24
13	GEETHAVARMAN S	561794017	27
14	GOWRI SANKARI K	561794019	27
15	GOWRI SHANKAR E	561794020	24
16	HARIPRAKASH B	561794021	21
17	IMAMDEEN N	561794023	27
18	KAMALRAJ T	561794024	30
19	KARTHIKADEVI M	561794025	27
20	KAVIYA K	561794026	24
21	KOHILA M	561794028	27
22	KRISHNA PRIYA R	561794029	27
23	MARTIN JOHNPAUL A	561794030	21
24	MOHANRAJ S	561794031	24
25	MONISHA B	561794032	27

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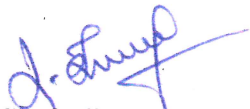





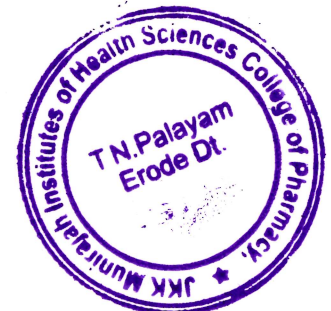
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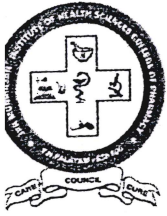
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S.No	Student Name	Registration Number	Mark Secured
26	NAVEEN A	561794033	24
27	NISHANTH P	561794034	27
28	PARTHIBAN M	561794036	30
29	POONGODI S	561794038	21
30	PRITHIVIRAJAN S	561794039	27
31	PRIYADHARSHINI K	561794040	24
32	RAJESHWARI M K	561794041	27
33	RAVIKUMAR S	561794042	24
34	SAROJINI S	561794045	24
35	SATHIYADHARANI N	561794046	21
36	SIVABHARATHI S P	561794047	27
37	SRIDHAR K	561794049	30
38	TAMILARASAN K	561794051	27
39	UDHAYAKUMAR M	561794053	21
40	VAIDEESH S	561794054	24
41	VASIM S	561794056	24
42	VASUDEVAN G	561794057	27
43	VIGNESH P	561794058	21
44	VIGNESH KUMAR B	561794059	24
45	VINOTHINI V	561794060	27
46	RAMESH S	561894061	27
47	SHALIK U	561894062	24

  
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## ADD ON COURSE FEEDBACK FORM

Name of the student: **NAVEEN . A**

Course & Year: **B. Pharm Final year**

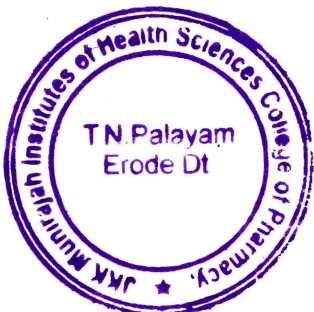
Registration No: **561794033**


Date: **11.01.2020**

Name of the Course: **FACE SERUM; AN INNOVATIVE APPROACH IN COSMETIC TECHNOLOGY**

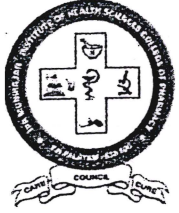
Evaluating the Following Questions

- This Course was interesting  
a. Strongly Agree    b. Agree    c.  Moderate    d. Disagree    e. Strongly Disagree
- Was this course useful  
a. Strongly Agree    b.  Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- During the course did you find any technical difficulties?  
a.  Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- Did the resource person delivered the information, you didn't know already?  
a. Strongly Agree    b. Agree    c. Moderate    d.  Disagree    e. Strongly Disagree
- The subject matter was presented effectively  
a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e.  Strongly Disagree
- The resource person helped me learn about how the course works in the real world  
a. Strongly Agree    b.  Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- The resource person provided information I can use to be successful in my career  
a. Strongly Agree    b. Agree    c.  Moderate    d. Disagree    e. Strongly Disagree
- Overall how do you rate the Training Program?  
a.  Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



  
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## ADD ON COURSE FEEDBACK FORM

Name of the student: AFREEN . N

Course & Year: B. PHARM FINAL YEAR

Registration No: 561794001.

Date: 11.07.2020.

Name of the Course: FACE SERUM: AN INNOVATIVE APPROACH IN COSMETIC  
TECHNOLOGY.  
Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

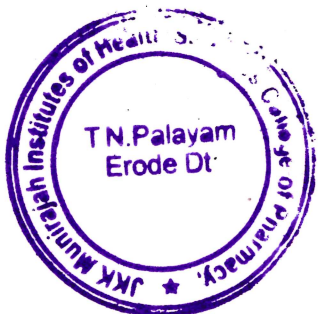
a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

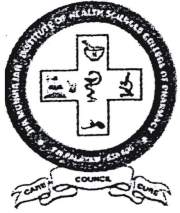
8. Overall how do you rate the Training Program?

a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



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## ADD ON COURSE FEEDBACK FORM

Name of the student: AISHWARYA . J

Course & Year: B.Pharm final year

Registration No: 561794002

Date: 11.07.2020

Name of the Course: FACE SERUM - AN INNOVATE APPROACH IN COSMETIC

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

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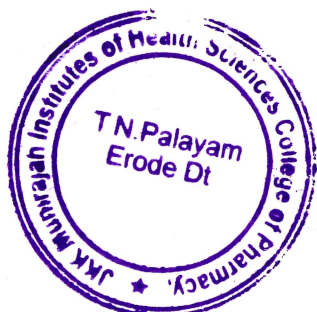
a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

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8. Overall how do you rate the Training Program?

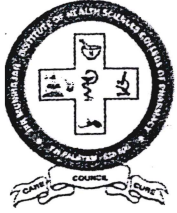
a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree





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## ADD ON COURSE FEEDBACK FORM

Name of the student: *ATITHKUMAR . E* Course & Year: *B Pharm, final year*

Registration No: *5610794003* Date: *11.07.2020*

Name of the Course: *FACE SERUM - AN INNOVATE APPROACH IN  
COSMETIC*

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

2. Was this course useful

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

3. During the course did you find any technical difficulties?

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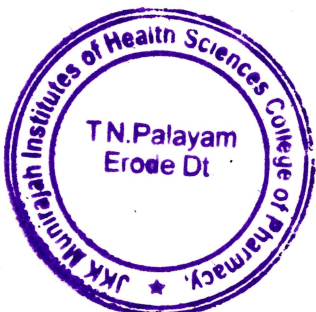
a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

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a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

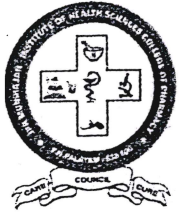


*[Handwritten Signature]*

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*[Handwritten Signature]*  
Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: Nishanth . P

Course & Year: B. pharm final year

Registration No: 561794034

Date: 11.07.2020

Name of the Course: face serum An innovative approach in cosmetic  
Evaluating the Following Questions  
Technology.

1. This Course was interesting

a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

2. Was this course useful

a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

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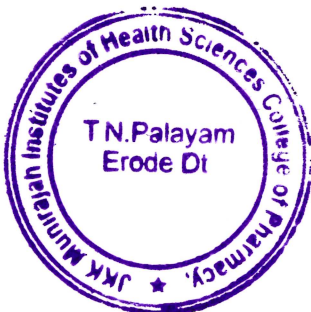
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## ADD-ON COURSE - SYLLABUS

Course Code : TTP2002

Course Name : TECHNOLOGY TRENDS IN PHARMACEUTICAL  
INDUSTRY AND MANUFACTURING

Date : 08.08.2020 to 26.09.2020 (All Saturday)

Course & Year : B. Pharm Third Year


Course Objective : Participants will gain insights into the latest technology trends shaping the pharmaceutical industry, enabling them to stay informed and contribute to advancements in drug development and manufacturing processes

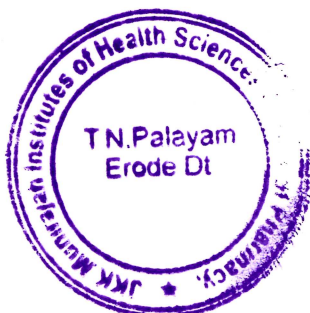
S. No	Topic	Hours
1	<b>Module-I:</b> Introduction, Artificial Intelligence (AI) and Machine Learning, High-Performance Computing (HPC), Blockchain for Supply Chain Management, 3D Printing, Advanced Analytics and Big Data, Gene Editing and CRISPR, Continuous Manufacturing, Digital Twins, Iot and Sensors, Robotics and Automation, Nanotechnology, Regulatory Technology (regtech), Virtual Reality (VR) and Augmented Reality (AR), Green Manufacturing	12
2	<b>Module-II:</b> Accelerating drug discovery and development, enhancing drug efficacy and safety, ensuring quality and compliance, personalizing medicine, reducing environmental impact, optimizing clinical trials, increasing patient engagement and adherence, enhancing training and education, minimizing human error, Fostering innovation and competitiveness	8
3	<b>Module-III:</b> How industry 4.0 technologies could be deployed in pharma manufacturing, Digitization and digital maturity Artificial intelligence, Full automation	8
4	<b>Module-IV:</b> Challenges to realizing industry 4.0 in pharmaceutical manufacturing, Regulatory challenges, Technical challenges, Determining and communicating the data's purpose will be a key technical challenge in Industry, Logistical challenges, Overall resolution of new trends	8


### Course Outcome:

After the successful completion of this course, the student shall be able to:

1. These outcomes include improved drug discovery, personalized medicine, enhanced quality and safety, transparent supply chains, remote monitoring, and control, as well as cost reduction and streamlined regulatory compliance. These advancements are poised to continue shaping the future of pharmaceuticals, ultimately benefiting both the industry and patients.

  
Co-Ordinator



  
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**ADD-ON COURSE NAME: TECHNOLOGY TRENDS IN PHARMACEUTICAL**

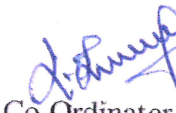
**INDUSTRY AND MANUFACTURING**

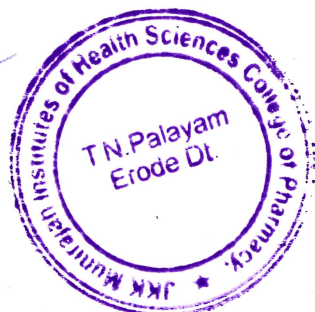
**Course Code: TTP2002**


**RESOURCE PERSON**



**Name** : DR. SENTHIL RAJA AYYANNAN  
**Qualification** : M. Pharm., Ph.D.,  
**Designation** : Associate Professor  
**Department** : Pharmaceutical Engineering & Technology  
**Organization** : Indian Institute of Technology (BHU), Varanasi  
**Area of Specialization** : Structure-based and Ligand-based Molecular Design, Discovery, Optimization, Pharmaceutical Engineering, Industrial Pharmacy  
**Phone number** : +91 9453313140  
**Mail-ID** : [asr aja.phe@iitbhu.ac.in](mailto:asr aja.phe@iitbhu.ac.in)  
**Experience** : 14 Year 06 Months

  
Co-Ordinator



  
Principal  
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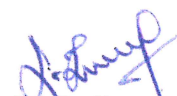
## ADD-ON COURSE NAME: TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY AND MANUFACTURING

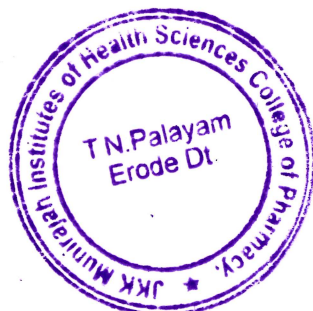
Course Code: TTP2002


### RESOURCE PERSON



**Name** : DR. S. SELVARAJ  
**Qualification** : M.Pharm., Ph.D.,  
**Designation** : Professor  
**Department** : Pharmaceutics  
**Organization** : JKK Munirajah Institute of Health Sciences College of Pharmacy,  
Erode, Tamilnadu.  
**Area of Specialization** : Physical Pharmaceutics, Pharmaceutical Formulation, Pharmaceutical  
Engineering, Nanotechnology, Novel Drug Delivery System,  
Biopharmaceutics, Cosmetic Science. Computer Aided Drug Delivery  
System  
**Phone number** : +91 99947 56130  
**Mail-ID** : [selvaraj@jkkmihscep.org](mailto:selvaraj@jkkmihscep.org)  
**Experience** : 09 Years 10 Months

  
Co-Ordinator



  
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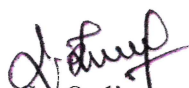
# JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

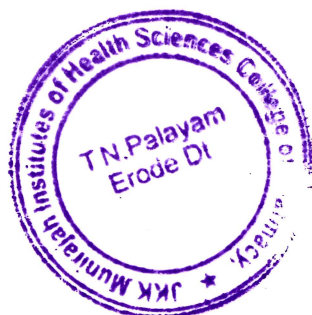
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## ADD-ON COURSE - SCHEDULE

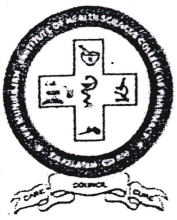
Course Code : TTP2002  
Course Name : TECHNOLOGY TRENDS IN PHARMACEUTICAL  
INDUSTRY AND MANUFACTURING  
Date : 08.08.2020 to 26.09.2020 (All Saturday)  
Course & Year : B. Pharm Third Year

S. No	Topic	Hours
1	UNIT-I: Introduction, Artificial Intelligence (AI) and Machine Learning, High-Performance Computing (HPC), Blockchain for Supply Chain Management, 3D Printing, Advanced Analytics and Big Data, Gene Editing and CRISPR, Continuous Manufacturing, Digital Twins, Iot and Sensors, Robotics and Automation, Nanotechnology, Regulatory Technology (regtech), Virtual Reality (VR) and Augmented Reality (AR), Green Manufacturing	08.08.2020 DR. A. Senthil Raja & DR. S. Selvaraj
2	UNIT-II: Accelerating drug discovery and development, enhancing drug efficacy and safety, enhancing drug efficacy and safety, ensuring quality and compliance, personalizing medicine, Reducing environmental impact,	22.08.2020 DR. A. Senthil Raja & DR. S. Selvaraj
3	Optimizing clinical trials, increasing patient engagement and adherence, enhancing training and education, minimizing human error, Fostering innovation and competitiveness	12.09.2020 DR. A. Senthil Raja & DR. S. Selvaraj
4	UNIT-III: How industry 4.0 technologies could be deployed in pharma manufacturing, Digitization and digital maturity Artificial intelligence, Full automation	19.09.2020 DR. A. Senthil Raja & DR. S. Selvaraj
5	UNIT-IV: Challenges to realizing industry 4.0 in pharmaceutical manufacturing, Regulatory challenges, Technical challenges, Determining and communicating the data's purpose will be a key technical challenge in Industry, Logistical challenges, Overall resolution of new trends	26.09.2020 DR. A. Senthil Raja & DR. S. Selvaraj

  
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## TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY AND MANUFACTURING (TTP2002)

Name of Student: ADINATHAN. R

Course & Year: B. Pharm Third year

Registration No: 561894002

Semester:

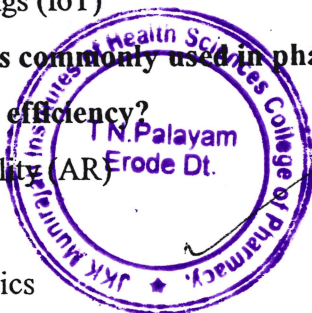
Date: 26/9/20

Marks Secured:

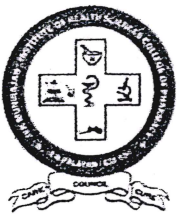
Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of implementing technology trends in pharmaceutical manufacturing?  
A) Reducing research and development costs  
 B) Increasing drug quality and safety  
C) Expediting regulatory approvals  
D) Maximizing shareholder profits
2. Which technology trend is revolutionizing drug discovery by simulating molecular interactions and predicting drug efficacy?  
A) 3D Printing  
 B) Artificial Intelligence (AI)  
C) Blockchain  
D) Virtual Reality (VR)
3. What is the key benefit of using blockchain technology in pharmaceutical manufacturing?  
A) Faster drug production  
B) Improved patient diagnosis  
 C) Enhanced supply chain transparency  
D) Reduced clinical trial duration
4. Which technology enables the customization of drug formulations for individual patients, often referred to as personalized medicine?  
A) Nanotechnology  
B) Gene editing  
 C) 3D Printing  
D) Internet of Things (IoT)
5. What technology is commonly used in pharmaceutical manufacturing to automate repetitive tasks and increase efficiency?  
A) Augmented Reality (AR)  
 B) Robotics  
C) Big Data Analytics  
D) Quantum Computing

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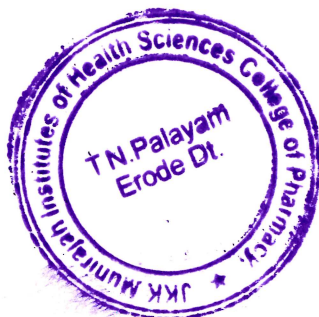
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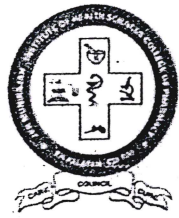
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6. How can the Internet of Things (IoT) improve pharmaceutical manufacturing processes?
- A) Enhancing drug testing in the lab
  - B) Monitoring and controlling equipment remotely
  - C) Analyzing genetic data
  - D) Speeding up clinical trials
7. What is the term for the process of 3D printing medication in a patient-specific dosage and form?
- A) Bioprinting
  - B) Nanoformulation
  - C) Pharmacogenomics
  - D) Telemedicine
8. Which technology trend has the potential to significantly reduce the time and cost required for clinical trials?
- A) Quantum Computing
  - B) Artificial Intelligence (AI)
  - C) Virtual Reality (VR)
  - D) Augmented Reality (AR)
9. What is the main advantage of using advanced analytics and big data in pharmaceutical research and development?
- A) Faster regulatory approvals
  - B) Predictive maintenance of manufacturing equipment
  - C) Improved drug formulation
  - D) Early identification of potential drug candidates
10. Which technology trend is focused on ensuring the integrity and security of pharmaceutical data and supply chains?
- A) Quantum Computing
  - B) Blockchain
  - C) Gene Editing
  - D) 3D Printing



  
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## TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY AND MANUFACTURING (TTP2002)

Name of Student: DINESH . V

Course & Year: B. Pharm - III year

Registration No: 561894006

Semester:

Date: 26.09.20

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of implementing technology trends in pharmaceutical manufacturing?

- A) Reducing research and development costs
- B) Increasing drug quality and safety
- C) Expediting regulatory approvals
- D) Maximizing shareholder profits

2. Which technology trend is revolutionizing drug discovery by simulating molecular interactions and predicting drug efficacy?

- A) 3D Printing
- B) Artificial Intelligence (AI)
- C) Blockchain
- D) Virtual Reality (VR)

3. What is the key benefit of using blockchain technology in pharmaceutical manufacturing?

- A) Faster drug production
- B) Improved patient diagnosis
- C) Enhanced supply chain transparency
- D) Reduced clinical trial duration

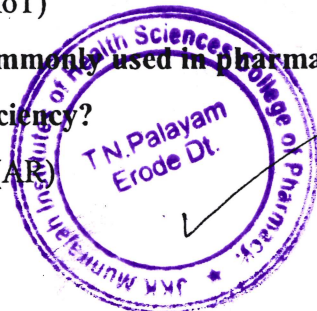
4. Which technology enables the customization of drug formulations for individual patients, often referred to as personalized medicine?

- A) Nanotechnology
- B) Gene editing
- C) 3D Printing
- D) Internet of Things (IoT)

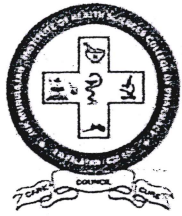
5. What technology is commonly used in pharmaceutical manufacturing to automate repetitive tasks and increase efficiency?

- A) Augmented Reality (AR)
- B) Robotics
- C) Big Data Analytics
- D) Quantum Computing

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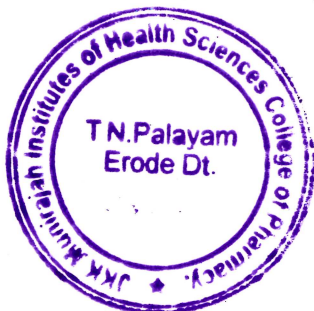
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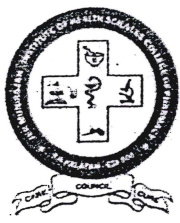
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6. How can the Internet of Things (IoT) improve pharmaceutical manufacturing processes?
- A) Enhancing drug testing in the lab
  - B)  Monitoring and controlling equipment remotely
  - C) Analyzing genetic data
  - D) Speeding up clinical trials
7. What is the term for the process of 3D printing medication in a patient-specific dosage and form?
- A)  Bioprinting
  - B) Nanoformulation
  - C) Pharmacogenomics
  - D) Telemedicine
8. Which technology trend has the potential to significantly reduce the time and cost required for clinical trials?
- A) Quantum Computing
  - B) Artificial Intelligence (AI)
  - C)  Virtual Reality (VR)
  - D) Augmented Reality (AR)
9. What is the main advantage of using advanced analytics and big data in pharmaceutical research and development?
- A) Faster regulatory approvals
  - B) Predictive maintenance of manufacturing equipment
  - C) Improved drug formulation
  - D)  Early identification of potential drug candidates
10. Which technology trend is focused on ensuring the integrity and security of pharmaceutical data and supply chains?
- A) Quantum Computing
  - B)  Blockchain
  - C) Gene Editing
  - D) 3D Printing



  
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## TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY AND MANUFACTURING (TTP2002)

Name of Student: M. Bhanath

Registration No: 561294005

Date: 26.09.20

Course & Year: B. Pharm III<sup>rd</sup> Year

Semester:

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of implementing technology trends in pharmaceutical manufacturing?

- A) Reducing research and development costs
- B) Increasing drug quality and safety
- C) Expediting regulatory approvals
- D) Maximizing shareholder profits

2. Which technology trend is revolutionizing drug discovery by simulating molecular interactions and predicting drug efficacy?

- A) 3D Printing
- B) Artificial Intelligence (AI)
- C) Blockchain
- D) Virtual Reality (VR)

3. What is the key benefit of using blockchain technology in pharmaceutical manufacturing?

- A) Faster drug production
- B) Improved patient diagnosis
- C) Enhanced supply chain transparency
- D) Reduced clinical trial duration

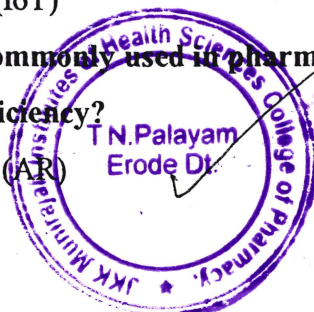
4. Which technology enables the customization of drug formulations for individual patients, often referred to as personalized medicine?

- A) Nanotechnology
- B) Gene editing
- C) 3D Printing
- D) Internet of Things (IoT)

5. What technology is commonly used in pharmaceutical manufacturing to automate repetitive tasks and increase efficiency?

- A) Augmented Reality (AR)
- B) Robotics
- C) Big Data Analytics
- D) Quantum Computing

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6. How can the Internet of Things (IoT) improve pharmaceutical manufacturing processes?

- A) Enhancing drug testing in the lab
- B) Monitoring and controlling equipment remotely
- C) Analyzing genetic data
- D) Speeding up clinical trials

7. What is the term for the process of 3D printing medication in a patient-specific dosage and form?

- A) Bioprinting
- B) Nanoformulation
- C) Pharmacogenomics
- D) Telemedicine

8. Which technology trend has the potential to significantly reduce the time and cost required for clinical trials?

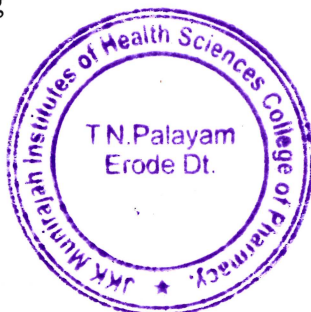
- A) Quantum Computing
- B) Artificial Intelligence (AI)
- C) Virtual Reality (VR)
- D) Augmented Reality (AR)


9. What is the main advantage of using advanced analytics and big data in pharmaceutical research and development?

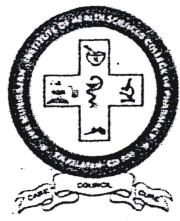
- A) Faster regulatory approvals
- B) Predictive maintenance of manufacturing equipment
- C) Improved drug formulation
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10. Which technology trend is focused on ensuring the integrity and security of pharmaceutical data and supply chains?

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- B) Blockchain
- C) Gene Editing
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## TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY AND MANUFACTURING (TTP2002)

Name of Student: Arun Swiya . M

Course & Year: B. Pharm Third year

Registration No: 561894004

Semester:

Date: 26/09/2020

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of implementing technology trends in pharmaceutical manufacturing?

- A) Reducing research and development costs
- B) Increasing drug quality and safety
- C) Expediting regulatory approvals
- D) Maximizing shareholder profits

2. Which technology trend is revolutionizing drug discovery by simulating molecular interactions and predicting drug efficacy?

- A) 3D Printing
- B) Artificial Intelligence (AI)
- C) Blockchain
- D) Virtual Reality (VR)

3. What is the key benefit of using blockchain technology in pharmaceutical manufacturing?

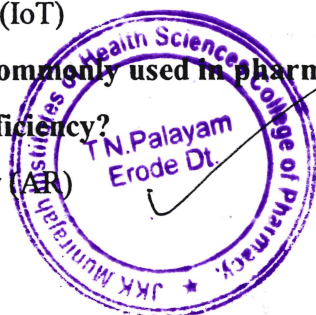
- A) Faster drug production
- B) Improved patient diagnosis
- C) Enhanced supply chain transparency
- D) Reduced clinical trial duration


4. Which technology enables the customization of drug formulations for individual patients, often referred to as personalized medicine?

- A) Nanotechnology
- B) Gene editing
- C) 3D Printing
- D) Internet of Things (IoT)

5. What technology is commonly used in pharmaceutical manufacturing to automate repetitive tasks and increase efficiency?

- A) Augmented Reality (AR)
- B) Robotics
- C) Big Data Analytics
- D) Quantum Computing



  
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6. How can the Internet of Things (IoT) improve pharmaceutical manufacturing processes?

- A) Enhancing drug testing in the lab
- B) Monitoring and controlling equipment remotely
- C) Analyzing genetic data
- D) Speeding up clinical trials

7. What is the term for the process of 3D printing medication in a patient-specific dosage and form?

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- C) Pharmacogenomics
- D) Telemedicine

8. Which technology trend has the potential to significantly reduce the time and cost required for clinical trials?

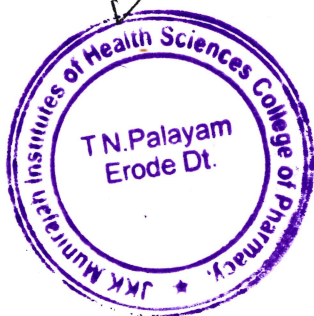
- A) Quantum Computing
- B) Artificial Intelligence (AI)
- C) Virtual Reality (VR)
- D) Augmented Reality (AR)


9. What is the main advantage of using advanced analytics and big data in pharmaceutical research and development?

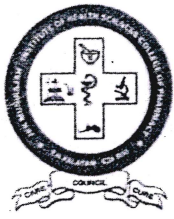
- A) Faster regulatory approvals
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- C) Improved drug formulation
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10. Which technology trend is focused on ensuring the integrity and security of pharmaceutical data and supply chains?

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- C) Gene Editing
- D) 3D Printing



  
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## TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY AND MANUFACTURING (TTP2002)

Name of Student: Abarna . A

Course & Year: B. Pharm, III<sup>rd</sup> Year

Registration No: 561894001

Semester:

Date: 26-09-20

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of implementing technology trends in pharmaceutical manufacturing?

- A) Reducing research and development costs
- B) Increasing drug quality and safety
- C) Expediting regulatory approvals
- D) Maximizing shareholder profits

27  
30

2. Which technology trend is revolutionizing drug discovery by simulating molecular interactions and predicting drug efficacy?

- A) 3D Printing
- B) Artificial Intelligence (AI)
- C) Blockchain
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- B) Improved patient diagnosis
- C) Enhanced supply chain transparency
- D) Reduced clinical trial duration


4. Which technology enables the customization of drug formulations for individual patients, often referred to as personalized medicine?

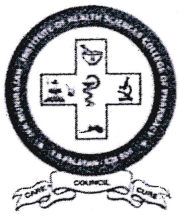
- A) Nanotechnology
- B) Gene editing
- C) 3D Printing
- D) Internet of Things (IoT)

5. What technology is commonly used in pharmaceutical manufacturing to automate repetitive tasks and increase efficiency?

- A) Augmented Reality (AR)
- B) Robotics
- C) Big Data Analytics
- D) Quantum Computing



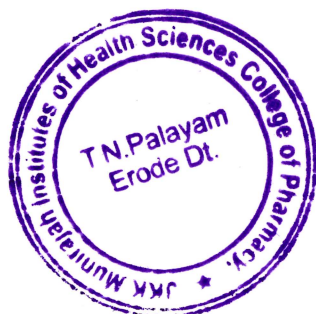
  
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6. How can the Internet of Things (IoT) improve pharmaceutical manufacturing processes?
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- A) Bioprinting
  - B) Nanoformulation
  - C) Pharmacogenomics
  - D) Telemedicine
8. Which technology trend has the potential to significantly reduce the time and cost required for clinical trials?
- A) Quantum Computing
  - B) Artificial Intelligence (AI)
  - C) Virtual Reality (VR)
  - D) Augmented Reality (AR)
9. What is the main advantage of using advanced analytics and big data in pharmaceutical research and development?
- A) Faster regulatory approvals
  - B) Predictive maintenance of manufacturing equipment
  - C) Improved drug formulation
  - D) Early identification of potential drug candidates
10. Which technology trend is focused on ensuring the integrity and security of pharmaceutical data and supply chains?
- A) Quantum Computing
  - B) Blockchain
  - C) Gene Editing
  - D) 3D Printing



  
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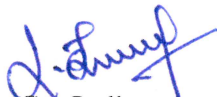
( Approved by Tamil Nadu Govt. & Pharmacy Council of India - New Delhi, Affiliated to The Tamil Nadu Dr. M.G.R Medical University, Chennai )  
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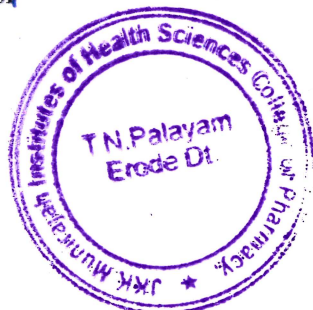
## ADD-ON COURSE: ANSWER KEY

Course Code : TTP2002  
Course Name : TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY AND MANUFACTURING  
Date : 08.08.2020 to 26.09.2020 (All Saturday)  
Course & Year : B. Pharm Third Year

## ANSWER KEY

1. Answer: B) Increasing drug quality and safety
2. Answer: B) Artificial Intelligence (AI)
3. Answer: C) Enhanced supply chain transparency
4. Answer: C) 3D Printing
5. Answer: B) Robotics
6. Answer: B) Monitoring and controlling equipment remotely
7. Answer: A) Bioprinting
8. Answer: B) Artificial Intelligence (AI)
9. Answer: D) Early identification of potential drug candidates
10. Answer: B) Blockchain

  
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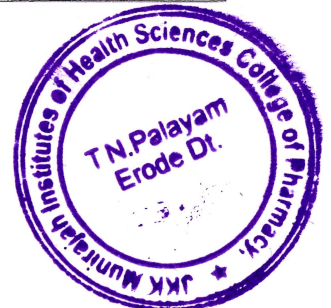
## MARK STATEMENT

Course Code : TTP2002  
Course Name : TECHNOLOGY TRENDS IN PHARMACEUTICAL  
INDUSTRY AND MANUFACTURING  
Date : 08.08.2020 to 26.09.2020 (All Saturday)  
Course & Year : B. Pharm Third Year

S.No	Student Name	Registration Number	Mark Secured
1	ABARNA A	561894001	27
2	ADINATHAN R	561894002	30
3	ARUN SURYA M	561894004	30
4	BARATH M	561894005	27
5	DINESH V	561894006	24
6	GOKUL G	561894008	27
7	GOKUL J	561894009	24
8	GOPINATH S	561894011	21
9	GOVINDARAJ A	561894012	27
10	HARIPRASATH D	561894015	24
11	HARISH KUMAR E	561894016	27
12	INDHUMATHI P	561894017	24
13	KALYANKUMAR H	561894021	21
14	KARTHICK N	561894022	30
15	LOKESWARAN M	561894024	21
16	MANIRAJ V	561894025	27
17	MOHAMED SABEEL V	561894028	27
18	NAGARAJ M	561894029	24
19	NAIDU SHREYA CHANDRASHEKHAR	561894030	30
20	NAKKEERAN S	561894031	21
21	NAVEENKUMAR V	561894032	24
22	PRADEEP RAJ V	561894033	27
23	PRAKASH M	561894035	24
24	PRAKASH R	561894036	24
25	PRAVEEN A	561894038	21

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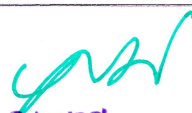


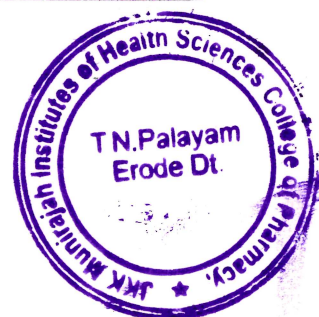
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S.No	Student Name	Registration Number	Mark Secured
26	RAGHUL M	561894040	24
27	SANGEETHA B	561894044	27
28	SATHISKUMAR M	561894046	24
29	SELVAMANI R	561894047	24
30	SELVI R	561894048	21
31	SURYA R	561894052	24
32	TAMILAMUTHAN V	561894053	24
33	UDHAYANITHI K	561894055	24
34	UMAMAHESWARI S	561894056	21
35	VIGNESHMOORTHY T	561894057	24
36	VIJAY R	561894058	27
37	LOSHINI M	561894063	24
38	PRAVEEN KUMAR R	561894064	24
39	ARUNKUMAR P	5619940100	24
40	BASKARAN B	5619940101	27
41	DEEPAKKUMAR D	5619940102	27
42	DINESH KUMAR V	5619940103	21
43	GOWRISANKAR K	5619940104	27
44	JEYA SEELAN B	5619940106	24
45	KANNAIAN G	5619940107	30
46	KRISHNA DEVI R	5619940108	27
47	NIRMAL G	5619940109	24
48	NITHESHWAR H	5619940110	21
49	NITHISH B	5619940111	21
50	RAGHUL P	5619940113	27
51	RAJIVGANDHI R	5619940114	27
52	SAMUVEL DAVID P	5619940115	21
53	SANTHANAKUMAR B	5619940116	24
54	SHANKARADAS T	5619940117	27
55	SHEIK MOIDHEEN A	5619940118	27
56	SURYA A	5619940119	21
57	VAITHEESHWARAN M K	5619940120	24
58	AJITHKUMAR E	561794003	27
59	HARISH G	561794022	30

  
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## ADD ON COURSE FEEDBACK FORM

Name of the student: GOMUL - G

Course & Year: B-pharm Third Year

Registration No: 161894008

Date: 26-09-2020

Name of the Course: Technology trends in pharmaceutical industry and manufacturing

Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree      b. Agree      c. Moderate      d. Disagree      e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree      b. Agree      c. Moderate      d. Disagree      e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree      b. Agree      c. Moderate       d. Disagree      e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

- a. Strongly Agree      b. Agree      c. Moderate       d. Disagree      e. Strongly Disagree

5. The subject matter was presented effectively

- a. Strongly Agree       b. Agree      c. Moderate      d. Disagree      e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

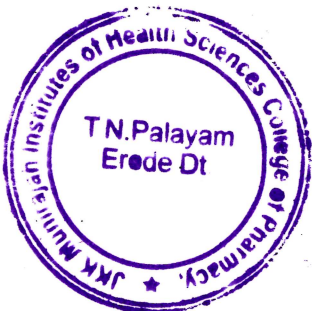
- a. Strongly Agree       b. Agree      c. Moderate      d. Disagree      e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree      b. Agree      c. Moderate      d. Disagree      e. Strongly Disagree

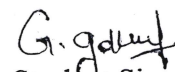
8. Overall how do you rate the Training Program?

- a. Strongly Agree       b. Agree      c. Moderate      d. Disagree      e. Strongly Disagree



  
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Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: *Narish G*

Course & Year: *B. Pharm Third Year*

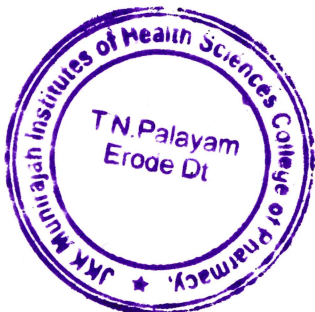
Registration No: *561794022*

Date: *26.9.2020*

Name of the Course: *Technology Trends in pharmaceutical Industry and manufacturing*

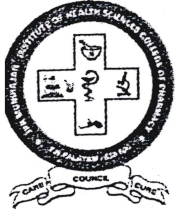
Evaluating the Following Questions

- This Course was interesting  
a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree
- Was this course useful  
a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- During the course did you find any technical difficulties?  
a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- Did the resource person delivered the information, you didn't know already?  
 a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- The subject matter was presented effectively  
a. Strongly Agree    b. Agree    c. Moderate    d. Disagree     e. Strongly Disagree
- The resource person helped me learn about how the course works in the real world  
a. Strongly Agree    b. Agree    c. Moderate     d. Disagree    e. Strongly Disagree
- The resource person provided information I can use to be successful in my career  
a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree
- Overall how do you rate the Training Program?  
a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



*[Signature]*  
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Gobi (Tk), Erode (Dt) - 638 506

*[Signature]*  
Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: NIRMAL .G. Course & Year: B.Pharm. Third Year.

Registration No: 5619940109 Date: 26/09/2020

Name of the Course: TECHNOLOGY TRENDS IN PHARMACEUTICAL INDUSTRY  
AND MANUFACTURING.

Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

- a. Strongly Agree    b. Agree    c. Moderate     d. Disagree    e. Strongly Disagree

5. The subject matter was presented effectively

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

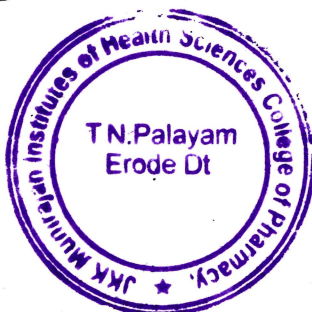
- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree


7. The resource person provided information I can use to be successful in my career

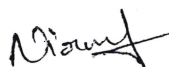
- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

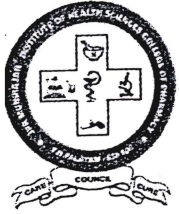
8. Overall how do you rate the Training Program?

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



  
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## ADD ON COURSE FEEDBACK FORM

Name of the student: Vijay . R

Course & Year: B. Pharm. III<sup>rd</sup> year

Registration No: 561894058

Date: 26/09/2020

Name of the Course: Technology Trends In pharmaceutical Industry  
Evaluating the Following Questions and Manufacturing

1. This Course was interesting

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

- a. Strongly Agree    b. Agree    c. Moderate     d. Disagree    e. Strongly Disagree

5. The subject matter was presented effectively

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

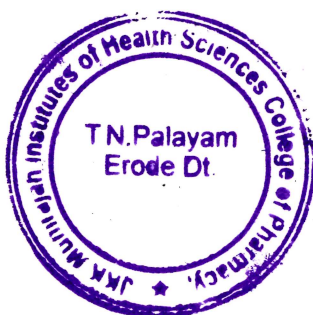
- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree


7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

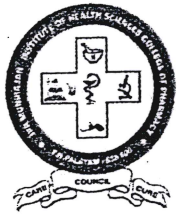
8. Overall how do you rate the Training Program?

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



  
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## ADD ON COURSE FEEDBACK FORM

Name of the student: Naveen Kumar V

Course & Year: B.Pharm Third Year

Registration No: 561894032

Date: 26-09-2020

Name of the Course: Technology Trends In Pharmaceutical Industry and Manufacturing

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree    b. Agree    c. Moderate     d. Disagree    e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

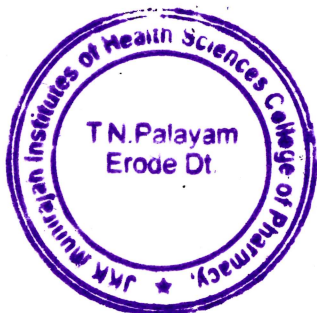
a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

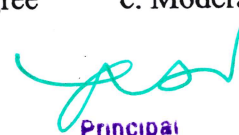
7. The resource person provided information I can use to be successful in my career

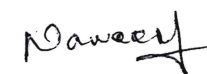
a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

8. Overall how do you rate the Training Program?

a. Strongly Agree    b. Agree    c. Moderate     d. Disagree    e. Strongly Disagree



  
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## ADD-ON COURSE - SYLLABUS

Course Code : AEM2003

Course Name : ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH

Date : 10.10.2020 to 28.11.2020 (All Saturday)

Course & Year : B. Pharm Second Year

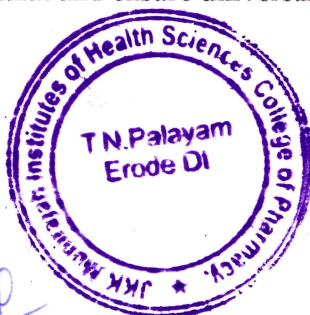
Course Objective : Participants should be equipped with the knowledge, skills, and perspectives needed to contribute effectively to the promotion of access to essential medicines as an integral component of the right to health

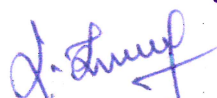
S.No	Topic	Hours
1	<b>Module-I:</b> Introduction, Access to medicines in the global burden of disease, The tension between the international trade regime and the international human rights regimen	10
2	<b>Module-II: AFFIRMATION OF THE HUMAN RIGHT TO ESSENTIAL MEDICINES</b> - Position of the Committee on Economic, Social and Cultural Rights, Non-governmental and academic promotion of the right to access essential medicines	12
3	<b>Module-III:</b> Draft Guidelines by the Special Rapporteur	8

### Course Outcome:

After the successful completion of this course, the student shall be able to:

1. Ensuring that people have equitable access to the medicines they need can lead to better health outcomes, reduced mortality rates, and improved overall well-being.
2. Therefore, governments, international organizations, and civil society must work together to uphold the right to health and ensure universal access to essential medicines.



  
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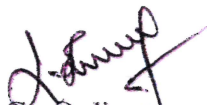
## ADD-ON COURSE NAME: ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH

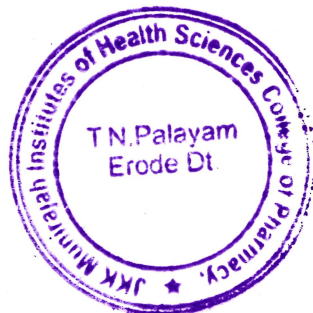
Course Code: AEM2003


### RESOURCE PERSON



**Name** : DR. M. PERIASAMY  
**Qualification** : M. Pharm., Ph.D.,  
**Designation** : Professor  
**Department** : Pharmacology  
**Organization** : JKK Munirajah Institute of Health Sciences College of Pharmacy,  
Erode, Tamilnadu.  
**Area of Specialization** : General Pharmacology, Drug discovery, ADR monitoring, Toxicology.  
**Phone number** : +91 94432 30618  
**Mail-ID** : [periasamy@jkkmihscep.org](mailto:periasamy@jkkmihscep.org)  
**Experience** : 13 Years 08 Months

  
Co-Ordinator



  
Principal  
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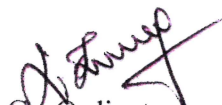
## ADD-ON COURSE NAME: ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH

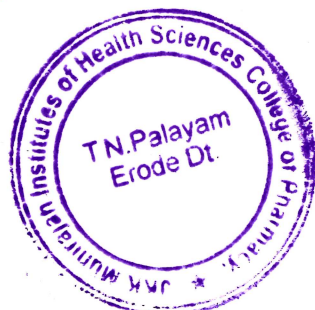
Course Code: AEM2003

### RESOURCE PERSON



**Name** : DR. S. KAMESHWARAN  
**Qualification** : M. Pharm., Ph.D.,  
**Designation** : Associate Professor  
**Department** : Pharmacology  
**Organization** : SSM College of Pharmacy, Jambai, Erode, Tamilnadu.  
**Area of Specialization** : General Pharmacology, Biochemical Pharmacology, Clinical Toxicology, Pharmacodynamics, Drug Metabolism and Transporters.  
**Phone number** : +91 79049 00273  
**Mail-ID** : [kamesh.pharm@gmail.com](mailto:kamesh.pharm@gmail.com)  
**Experience** : 09 Year 07 Months

  
Co-Ordinator





Principal

JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N. Palayam,  
Gobi (Tk), Erode (Dt) - 638 506



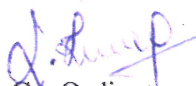
# JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

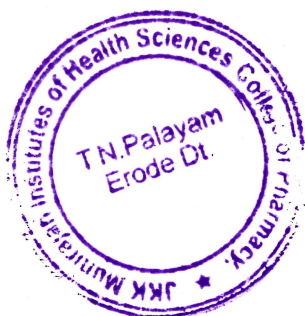
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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

## ADD-ON COURSE - SCHEDULE

Course Code : AEM2003  
Course Name : ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH  
Date : 10.10.2020 to 28.11.2020 (All Saturday)  
Course & Year : B. Pharm Second Year

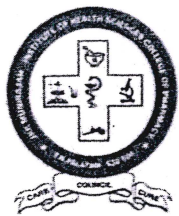
S. No	Topic	Hours
1	UNIT-I: Introduction, Access to medicines in the global burden of disease	10.10.2020 DR. S. Kameshwaran & DR. M. Periasamy
2	The tension between the international trade regime and the international human rights regimen	24.10.2020 DR. S. Kameshwaran & DR. M. Periasamy
3	UNIT-II: AFFIRMATION OF THE HUMAN RIGHT TO ESSENTIAL MEDICINES - Position of the Committee on Economic, Social and Cultural Rights	07.11.2020 DR. S. Kameshwaran & DR. M. Periasamy
4	Non-governmental and academic promotion of the right to access essential medicines	14.11.2020 DR. S. Kameshwaran & DR. M. Periasamy
5	UNIT-III: Draft Guidelines by the Special Rapporteur	28.11.2020 DR. S. Kameshwaran & DR. M. Periasamy

  
Co-Ordinator





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## ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH (AEM2003)

Name of Student: DEVA RAJ. P

Registration No: 561994016

Date: 20.11.2020

Answer All Multiple-Choice Questions (10 × 3 = 30)

Course & Year: B.Pharm Second year

Semester:

Marks Secured:

1. Which international document recognizes the right to health, including access to essential medicines?

- a) Universal Declaration of Human Rights
- b) Convention on the Rights of the Child
- c) International Covenant on Economic, Social, and Cultural Rights
- d) Paris Agreement on Climate Change

29/30

2. What does the term "availability" refer to in the context of access to essential medicines?

- a) The cost of medicines
- b) The presence of medicines in healthcare facilities
- c) The acceptability of medicines to patients
- d) The accessibility of medicines by all populations

3. Which component of access to essential medicines emphasizes that medicines should be affordable to all?

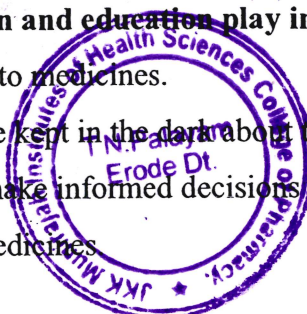
- a) Availability
- b) Accessibility
- c) Affordability
- d) Acceptability

4. What does the "acceptability" component of access to essential medicines entail?

- a) Ensuring medicines are culturally appropriate and respectful
- b) Ensuring all medicines are highly profitable
- c) Ensuring medicines are available at all times
- d) Ensuring medicines are free of side effects

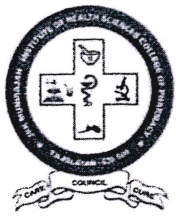
5. What role does information and education play in access to essential medicines?

- a) It's not relevant to access to medicines.
- b) It ensures that patients are kept in the dark about their treatment.
- c) It empowers patients to make informed decisions about their treatment.
- d) It increases the cost of medicines.



X  
Principal

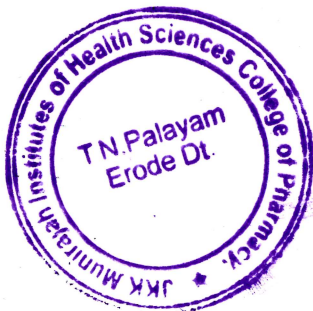
JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N. Palayam,  
Gobi (Tk), Erode (Dt) - 638 506




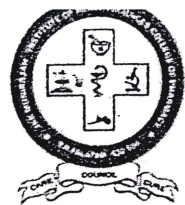
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6. Which factor is NOT a barrier to access to essential medicines?
- a) Financial barriers ✓
  - b) Geographic barriers
  - c) Language barriers
  - d) High profitability ✓
7. What is the responsibility of governments regarding access to essential medicines?
- a) Governments have no role in ensuring access to medicines. ✓
  - b) Governments should ensure medicines are always free of charge.
  - c) Governments should regulate drug prices and promote accessibility. ✓
  - d) Governments should prioritize pharmaceutical industry profits.
8. Why is accountability important in ensuring access to essential medicines?
- a) It ensures all medicines are profitable.
  - b) It monitors and addresses issues related to access and quality. ✓
  - c) It increases the cost of healthcare services.
  - d) It limits access to essential medicines.
9. Which component of access to essential medicines involves accommodating people with disabilities?
- a) Availability ✗
  - b) Affordability ✓
  - c) Accessibility
  - d) Acceptability
10. What does "participation" mean in the context of access to essential medicines?
- a) Participation of healthcare providers in drug pricing decisions ✓
  - b) Involvement of communities and individuals in healthcare decisions and policies ✓
  - c) Participation of pharmaceutical companies in healthcare delivery
  - d) Encouraging patients to stay uninformed in their own treatment decisions



  
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### ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH

(AEM2003)

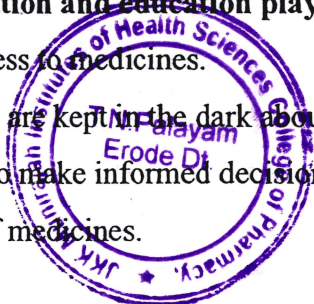
Name of Student: Arjali . J  
Registration No: 561994003  
Date: 20.11.2020


Course & Year: B. Pharm ; II<sup>nd</sup> year  
Semester:  
Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. Which international document recognizes the right to health, including access to essential medicines?  
a) Universal Declaration of Human Rights ✓  
b) Convention on the Rights of the Child  
c)  International Covenant on Economic, Social, and Cultural Rights  
d) Paris Agreement on Climate Change
2. What does the term "availability" refer to in the context of access to essential medicines?  
a) The cost of medicines  
b)  The presence of medicines in healthcare facilities ✓  
c) The acceptability of medicines to patients  
d) The accessibility of medicines by all populations
3. Which component of access to essential medicines emphasizes that medicines should be affordable to all?  
a) Availability ✓  
b) Accessibility  
c)  Affordability  
d) Acceptability
4. What does the "acceptability" component of access to essential medicines entail?  
a)  Ensuring medicines are culturally appropriate and respectful ✓  
b) Ensuring all medicines are highly profitable  
c) Ensuring medicines are available at all times  
d) Ensuring medicines are free of side effects
5. What role does information and education play in access to essential medicines?  
a) It's not relevant to access to medicines.  
b) It ensures that patients are kept in the dark about their treatment.  
c)  It empowers patients to make informed decisions about their treatment.  
d) It increases the cost of medicines.

24  
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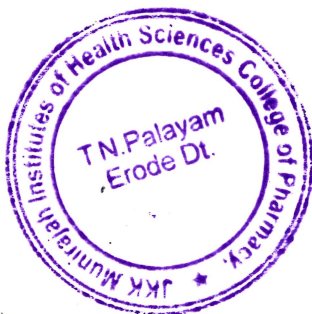
  
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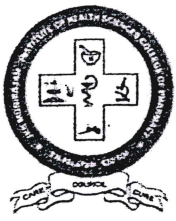
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6. Which factor is NOT a barrier to access to essential medicines?
- a) Financial barriers ✓
  - b) Geographic barriers
  - c) Language barriers
  - d) High profitability
7. What is the responsibility of governments regarding access to essential medicines?
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  - b) It monitors and addresses issues related to access and quality. ✓
  - c) It increases the cost of healthcare services.
  - d) It limits access to essential medicines.
9. Which component of access to essential medicines involves accommodating people with disabilities?
- a) Availability ✗
  - b) Affordability
  - c) Accessibility
  - d) Acceptability
10. What does "participation" mean in the context of access to essential medicines?
- a) Participation of healthcare providers in drug pricing decisions ✗
  - b) Involvement of communities and individuals in healthcare decisions and policies
  - c) Participation of pharmaceutical companies in healthcare delivery
  - d) Encouraging patients to stay uninvolved in their own treatment decisions



*[Signature]*  
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## ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH

(AEM2003)

Name of Student: DEEPAK. P

Course & Year: B. Pharm - II year

Registration No: 561994014

Semester:

Date: 20.11.2020

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. Which international document recognizes the right to health, including access to essential medicines?

- a) Universal Declaration of Human Rights ✓
- b) Convention on the Rights of the Child
- c) ~~International~~ International Covenant on Economic, Social, and Cultural Rights
- d) Paris Agreement on Climate Change

24  
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2. What does the term "availability" refer to in the context of access to essential medicines?

- a) The cost of medicines
- b) ~~The~~ The presence of medicines in healthcare facilities ✓
- c) The acceptability of medicines to patients
- d) The accessibility of medicines by all populations

3. Which component of access to essential medicines emphasizes that medicines should be affordable to all?

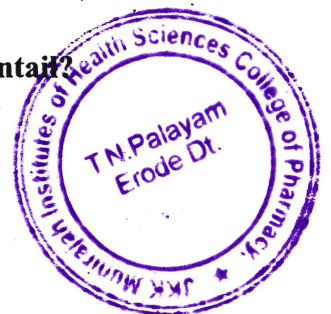
- a) Availability X
- b) ~~Accessibility~~ Accessibility
- c) Affordability
- d) Acceptability

4. What does the "acceptability" component of access to essential medicines entail?

- a) ~~Ensuring~~ Ensuring medicines are culturally appropriate and respectful ✓
- b) Ensuring all medicines are highly profitable
- c) Ensuring medicines are available at all times
- d) Ensuring medicines are free of side effects

5. What role does information and education play in access to essential medicines?

- a) It's not relevant to access to medicines.
- b) It ensures that patients are kept in the dark about their treatment.
- c) ~~It~~ empowers patients to make informed decisions about their treatment. ✓
- d) It increases the cost of medicines.



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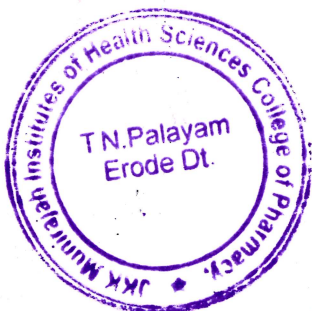
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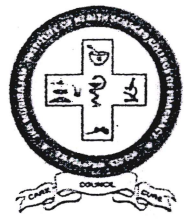
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  - d) It limits access to essential medicines.
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  - c) Accessibility
  - d) Acceptability
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  - b) Involvement of communities and individuals in healthcare decisions and policies
  - c) Participation of pharmaceutical companies in healthcare delivery
  - d) Encouraging patients to stay uninvolved in their own treatment decisions



  
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## ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH

(AEM2003)

Name of Student: M. Balaswarya

Registration No: 561994011

Date: 20.11.2020

Course & Year: B. pharm Second Year

Semester:

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. Which international document recognizes the right to health, including access to essential medicines?

- a) Universal Declaration of Human Rights
- b) Convention on the Rights of the Child
- c) International Covenant on Economic, Social, and Cultural Rights
- d) Paris Agreement on Climate Change

30  
30

2. What does the term "availability" refer to in the context of access to essential medicines?

- a) The cost of medicines
- b) The presence of medicines in healthcare facilities
- c) The acceptability of medicines to patients
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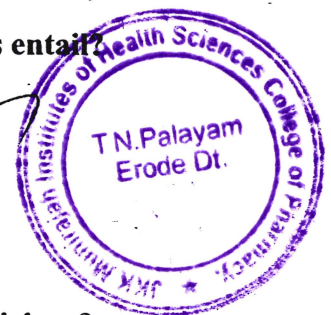
- a) Availability
- b) Accessibility
- c) Affordability
- d) Acceptability

4. What does the "acceptability" component of access to essential medicines entail?

- a) Ensuring medicines are culturally appropriate and respectful
- b) Ensuring all medicines are highly profitable
- c) Ensuring medicines are available at all times
- d) Ensuring medicines are free of side effects

5. What role does information and education play in access to essential medicines?

- a) It's not relevant to access to medicines.
- b) It ensures that patients are kept in the dark about their treatment.
- c) It empowers patients to make informed decisions about their treatment.
- d) It increases the cost of medicines.



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- d) ~~High profitability~~

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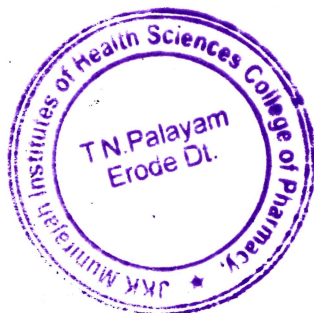
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- b) ~~It monitors and addresses issues related to access and quality.~~
- c) It increases the cost of healthcare services.
- d) It limits access to essential medicines.


9. Which component of access to essential medicines involves accommodating people with disabilities?

- a) Availability ✓
- b) Affordability
- c) ~~Accessibility~~
- d) Acceptability

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- a) Participation of healthcare providers in drug pricing decisions ✓
- b) ~~Involvement of communities and individuals in healthcare decisions and policies~~
- c) Participation of pharmaceutical companies in healthcare delivery
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## ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH (AEM2003)

Name of Student: *Ajuna G*

Course & Year: *B Pharm second year*

Registration No: *561994006*

Semester:

Date: *20.11.2020*

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. Which international document recognizes the right to health, including access to essential medicines?

- a) Universal Declaration of Human Rights
- b) Convention on the Rights of the Child
- c) International Covenant on Economic, Social, and Cultural Rights
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*24*  
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*30*

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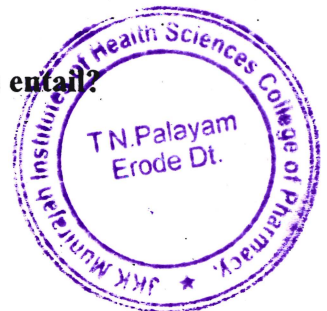
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- b) Accessibility
- c) Affordability
- d) Acceptability



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- c) Ensuring medicines are available at all times
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5. What role does information and education play in access to essential medicines?

- a) It's not relevant to access to medicines.
- b) It ensures that patients are kept in the dark about their treatment.
- c) It empowers patients to make informed decisions about their treatment.
- d) It increases the cost of medicines.



*yes*  
Principal

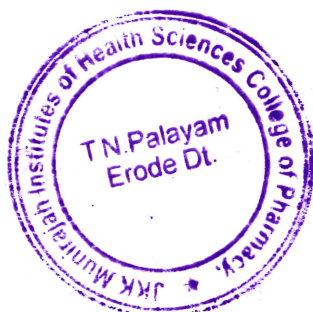
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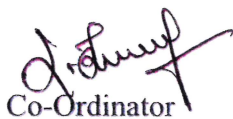
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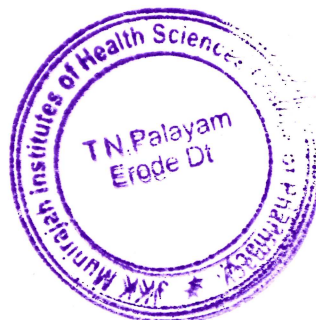
## ADD-ON COURSE: ANSWER KEY


Course Code : AEM2003  
Course Name : ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH  
Date : 10.10.2020 to 28.11.2020 (All Saturday)  
Course & Year : B. Pharm Second Year

## ANSWER KEY

1. Answer: c) International Covenant on Economic, Social, and Cultural Rights
2. Answer: b) The presence of medicines in healthcare facilities
3. Answer: c) Affordability
4. Answer: a) Ensuring medicines are culturally appropriate and respectful
5. Answer: c) It empowers patients to make informed decisions about their treatment.
6. Answer: d) High profitability
7. Answer: c) Governments should regulate drug prices and promote accessibility.
8. Answer: b) It monitors and addresses issues related to access and quality.
9. Answer: c) Accessibility
10. Answer: b) Involvement of communities and individuals in healthcare decisions and policies.

  
Co-Ordinator



  
Principal  
JKK Munirajah Institute of Health Science  
College of Pharmacy, T.N. Palayam,  
Gobi (Tk), Erode (Dt) - 638 506



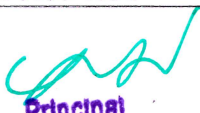
# JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

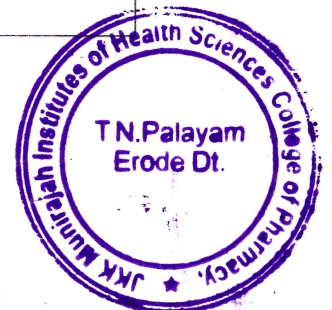
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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

## MARK STATEMENT

Course Code : AEM2003  
Course Name : ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT OF THE RIGHT TO HEALTH  
Date : 10.10.2020 to 28.11.2020 (All Saturday)  
Course & Year : B. Pharm Second Year

S.No	Student Name	Registration Number	Mark Secured
1	ABISHEK A S	561994001	24
2	ANJALI J	561994003	24
3	ARISHRAM PRASATH B	561994005	27
4	ARUN G	561994006	24
5	ARUN K	561994007	24
6	ARUNA C	561994009	27
7	ASHOK M	561994010	24
8	BALASURYA M	561994011	30
9	BHARATH KUMAR S	561994012	24
10	BHUVANESHWARAN B	561994013	27
11	DEEPAK P	561994014	24
12	DEVA PREETHI J	561994015	24
13	DEVARAJ P	561994016	24
14	DHANESHEER AHAMED A	561994017	24
15	DHANUSH S	561994018	27
16	DINESH T	561994020	24
17	DINESH KUMAR J	561994021	24
18	GEETHA RUBIKA S A	561994022	24
19	GIRISANKAR M	561994023	24
20	GODWIN MOSES M	561994024	27
21	GOKUL S	561994025	27
22	GOMATHI J	561994028	24
23	GOPI M	561994029	24
24	GOPINATH K	561994030	21
25	GOWTHAM R	561994031	21

  
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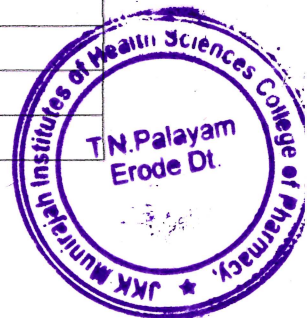
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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

S.No	Student Name	Registration Number	Mark Secured
26	GOWTHAM S	561994032	24
27	GOWTHAMAN P	561994033	27
28	HARAN K	561994034	24
29	HARIPRASATH V	561994035	21
30	INDRA T	561994036	27
31	JAMES JEBA BENNY G	561994037	24
32	JAYAPRAKASH P	561994038	24
33	JEEVANADHAM M	561994039	24
34	KALAIVANNAN M	561994040	21
35	KAVIYA M	561994042	27
36	KAVIYARASAN K	561994043	24
37	KAVIYARASU G	561994044	21
38	KEERTIVASAN M	561994045	24
39	KIRUBHAKARAN P	561994046	24
40	KOKILA M	561994047	27
41	MANIVASAN P	561994048	21
42	MARUTHU PANDI R	561994049	21
43	MAYILSAMY L	561994050	21
44	MOHAMED RIZWAN S	561994051	24
45	MOHAMMED FAHATH F	561994052	24
46	MOHAN RAJ V	561994053	27
47	NARMATHA K K	561994055	24
48	NAVEENA V L	561994057	27
49	NITHESH G K	561994058	21
50	NITHISH KUMAR A	561994059	24
51	PERUMAL T	561994060	21
52	PRAVEEN KUMAR S	561994061	24
53	PRAVEEN KUMAR T	561994062	24
54	PRAVIN P	561994063	21
55	PRIYADHARSINI V	561994065	27
56	RAJADURAI T	561994066	24
57	REETA SILLVIA S	561994068	27
58	SAJMA BEGAM A	561994070	27
59	SAKTHIVEL P	561994071	21
60	SALMANKHAN S	561994072	24

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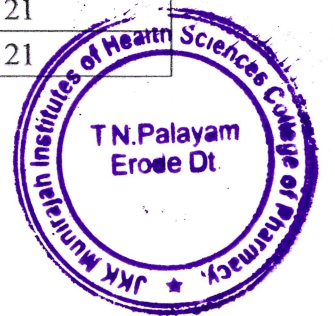
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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

S.No	Student Name	Registration Number	Mark Secured
61	SANJAITH S	561994074	24
62	SANJAY K	561994075	24
63	SANTHOSH P	561994076	24
64	SANTHOSHKUMAR P	561994077	21
65	SARAVANAN M	561994078	24
66	SATHEESH KUMAR R	561994079	24
67	SIVASAKTHI S	561994081	21
68	SONA R	561994082	27
69	SRIRAM M	561994083	21
70	SUBIKSHA A	561994085	24
71	SURENDIRAN S	561994086	24
72	THIRUMALAINANDAA D	561994088	27
73	VARSHA S	561994090	24
74	VASANTH J	561994091	27
75	VEERAVEL A	561994092	24
76	VENKATESH K	561994093	21
77	VIGNESH M	561994095	21
78	VIJAYARAGAVAN S	561994096	21
79	VISHNU P	561994097	30
80	YAMINI M	561994098	30
81	YUVANRAJ L	561994099	27
82	ABISHA D	560020516585	24
83	JANARTHANA SUTHAN T	560020516586	21
84	GODWIN G	561894007	27
85	JAGAN S	561894018	24
86	JEEVA C	561894019	21
87	MARAN S	561894027	24
88	RAJESH T	561894043	24
89	SATHISH KUMAR S	561894045	27
90	SIVASRITHARAN M	561894050	24
91	SUNDHARAMUKIL S	561894051	21
92	KARTHIKEYAN S	561894060	21

  
Co-Ordinator

  
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## ADD ON COURSE FEEDBACK FORM

Name of the student: Kaviya, M.

Course & Year: B.Pharm Second year.

Registration No: 56199A0A2

Date: 28.11.2020

Name of the Course: Access to Essential Medicines  
as a component of the Right to health [AEM2003].  
Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

5. The subject matter was presented effectively

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

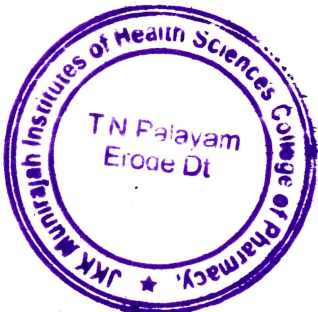
- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

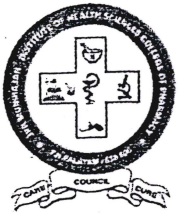
8. Overall how do you rate the Training Program?

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



*[Signature]*  
Principal  
JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N. Palayam,  
Gobi (Tk), Erode (Dt) - 638 506

*[Signature]*  
Student Signature



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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

## ADD ON COURSE FEEDBACK FORM

Name of the student: DEEPAK P Course & Year: B.Pharm second year

Registration No: 561994014 Date: 28.11.2020

Name of the Course: Access to essential medicines as a component of  
the Right To Health - AEM 2003

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree b.  Agree c. Moderate d. Disagree e. Strongly Disagree

2. Was this course useful

a. Strongly Agree b.  Agree c. Moderate d. Disagree e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree b. Agree c.  Moderate d. Disagree e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree b. Agree c.  Moderate d. Disagree e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree b.  Agree c. Moderate d. Disagree e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

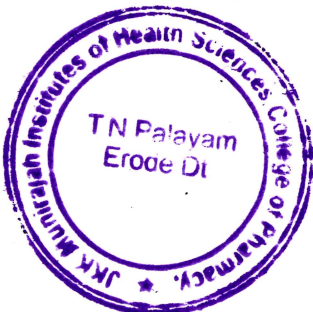
a.  Strongly Agree b. Agree c. Moderate d. Disagree e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

a. Strongly Agree b.  Agree c. Moderate d. Disagree e. Strongly Disagree

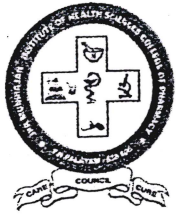
8. Overall how do you rate the Training Program?

a. Strongly Agree b.  Agree c. Moderate d. Disagree e. Strongly Disagree



*psw*  
Principal  
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College of Pharmacy, T.N. Palayam,  
Gobi (Tk), Erode (Dt) - 638 506

*P. Dik*  
Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: SANJAY. R

Course & Year: B .Pharm second Year

Registration No: 561994075

Date: 28.11.2020

Name of the Course: Access to Essential Medicines as a component of the right to Health. - AEM 2003

Evaluating the Following Questions

1. This Course was interesting

a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

2. Was this course useful

a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

3. During the course did you find any technical difficulties?

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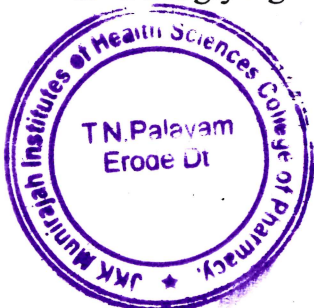
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

7. The resource person provided information I can use to be successful in my career

a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

8. Overall how do you rate the Training Program?

a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree



*[Signature]*  
Principal  
JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N. Palayam,  
Gobi (TK), Erode (Dt) - 638 506

*[Signature]*  
Student Signature

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## ADD ON COURSE FEEDBACK FORM

Name of the student: P. Santhosh

Course & Year: B. Pharm Second Year

Registration No: 561994076

Date: 28.11.2020

Name of the Course: Access to essential Medicines as a Component of  
The right to the health. AEM2003  
Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

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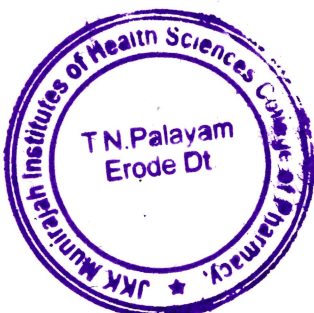
a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree


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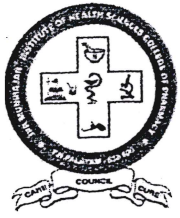
8. Overall how do you rate the Training Program?

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## ADD ON COURSE FEEDBACK FORM

Name of the student: JEEVA.C

Course & Year: B.Pharm Second Year

Registration No: 561894019

Date: 28.11.2020

Name of the Course: ACCESS TO ESSENTIAL MEDICINES AS A COMPONENT  
OF THE RIGHT TO HEALTH - AEM2003

Evaluating the Following Questions

1. This Course was interesting

- a.  Strongly Agree      b.  Agree      c.  Moderate      d.  Disagree      e.  Strongly Disagree

2. Was this course useful

- a.  Strongly Agree      b.  Agree      c.  Moderate      d.  Disagree      e.  Strongly Disagree

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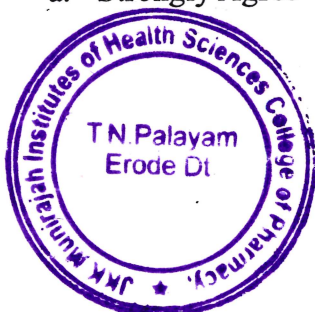
- a.  Strongly Agree      b.  Agree      c.  Moderate      d.  Disagree      e.  Strongly Disagree

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- a.  Strongly Agree      b.  Agree      c.  Moderate      d.  Disagree      e.  Strongly Disagree



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College of Pharmacy, T.N. Palayam,  
Gobi (Tk), Erode (Dt) - 638 506

C. Jeeva  
Student Signature



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## ADD-ON COURSE - SYLLABUS

Course Code : PDD2004  
Course Name : INTRODUCTION TO PHARMACEUTICAL SCIENCES:  
EXPLORING THE DRUG DEVELOPMENT JOURNEY  
Date : 12.12.2020 to 30.01.2021 (All Saturday)  
Course & Year : B. Pharm First Year

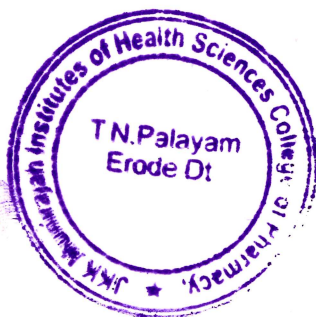
Course Objective : To equip students with a solid foundation in pharmaceutical sciences and an understanding of the multifaceted drug development journey

S.No	Topic	Hours
1	<b>Module-I: DRUG DISCOVERY:</b> Preclinical development, Clinical trials, Post-Marketing Surveillance	9
2	<b>Module-II: EXPLORING THE DRUG DEVELOPMENT:</b> Discovery and Research, Preclinical Testing, Market access	10
3	<b>Module-III: DISCOVERY AND RESEARCH:</b> Research objective, research planning, Data collection and experimentation, Interdisciplinary Collaboration, Funding and Resources, Manufacturing, Market access.	11

### Course Outcome:

After the successful completion of this course, the student shall be able to:

1. Ensuring that people have equitable access to the medicines they need can lead to better health outcomes, reduced mortality rates, and improved overall well-being.
2. Therefore, governments, international organizations, and civil society must work together to uphold the right to health and ensure universal access to essential medicines.



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Co-Ordinator



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## ADD-ON COURSE NAME: INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY

Course Code: PDD2004

### RESOURCE PERSON

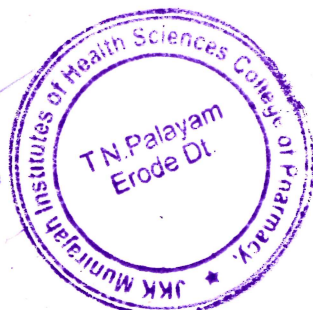


**Name** : DR. P. VAIJAYANTHIMALA  
**Qualification** : M. Pharm., Ph.D.,  
**Designation** : Professor  
**Department** : Pharmaceutical Chemistry  
**Organization** : SSM College of Pharmacy, Jambai, Erode, Tamilnadu.  
**Area of Specialization** : Drug Design, Pharmaceutical Organic Chemistry, Pharmaceutical Inorganic Chemistry, Medicinal Chemistry, Natural Products, Process Chemistry.  
**Phone number** : +91 94883 76917  
**Mail-ID** : [vaijsiva@gmail.com](mailto:vaijsiva@gmail.com)  
**Experience** : 16 Year 04 Months

Principal

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College of Pharmacy, T.N.Palayam,  
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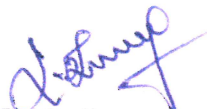
## ADD-ON COURSE NAME: INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY

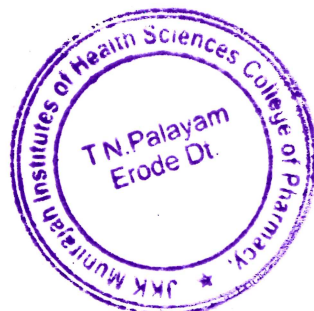
Course Code: PDD2004


### RESOURCE PERSON



**Name** : Mrs. J. PRIYA  
**Qualification** : M. Pharm.,  
**Designation** : Associate Professor  
**Department** : Pharmaceutical Chemistry  
**Organization** : JKK Munirajah Institute of Health Sciences College of Pharmacy,  
Erode, Tamilnadu.  
**Area of Specialization** : Medicinal Chemistry, Pharmaceutical Organic Chemistry, Molecular  
Docking, Drug design, CADD, QSAR, Researcher.  
**Phone number** : +91 90802 06848  
**Mail-ID** : [priya@jkkmihsep.org](mailto:priya@jkkmihsep.org)  
**Experience** : 10 Year 06 Months

  
Co-Ordinator



  
Principal  
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Gobi (TK), Erode (Dt) - 638 506



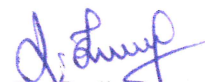
# JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

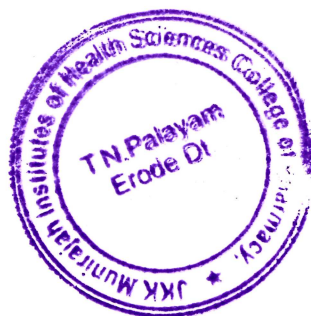
( Approved by Tamil Nadu Govt. & Pharmacy Council of India - New Delhi, Affiliated to The Tamil Nadu Dr. M.G.R Medical University, Chennai )  
Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

## ADD-ON COURSE - SCHEDULE

Course Code : PDD2004  
Course Name : INTRODUCTION TO PHARMACEUTICAL SCIENCES:  
EXPLORING THE DRUG DEVELOPMENT JOURNEY  
Date : 12.12.2020 to 30.01.2021 (All Saturday)  
Course & Year : B. Pharm First Year

S. No	Topic	Hours
1	UNIT-I: DRUG DISCOVERY: Preclinical development, Clinical trials, Post-Marketing Surveillance	12.12.2020 DR. P.Vaijayanthimala & Mrs. J. Priya
2	UNIT-II: EXPLORING THE DRUG DEVELOPMENT: Discovery and Research	19.12.2020 DR. P.Vaijayanthimala & Mrs. J. Priya
3	Preclinical Testing, Market access	09.01.2021 DR. P.Vaijayanthimala & Mrs. J. Priya
4	UNIT-III: DISCOVERY AND RESEARCH: Research objective, research planning, Data collection and experimentation	23.01.2021 DR. P.Vaijayanthimala & Mrs. J. Priya
5	Interdisciplinary Collaboration, Funding and Resources, Manufacturing, Market access	30.01.2021 DR. P.Vaijayanthimala & Mrs. J. Priya

  
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## INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY (PDD2004)

Name of Student: Jeeva . M

Course & Year: B. Pharm 1<sup>st</sup> Year

Registration No: 560020516528

Semester:

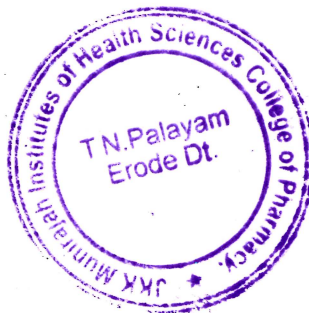
Date: 30.01.21

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

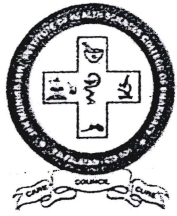
30  
30

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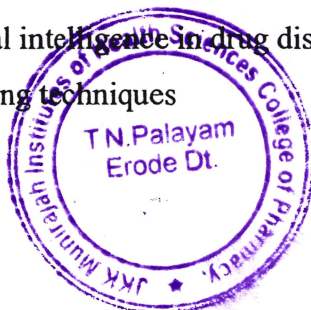
JKK Munirajah Institute of Health Sciences  
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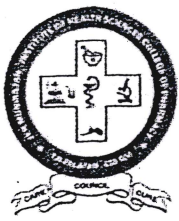
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## INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY (PDD2004)

Name of Student: ABIRAMI. K

Course & Year: B. Pharm - I year

Registration No: 560020516502

Semester:

Date: 30.1.21

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of preclinical studies in drug development?

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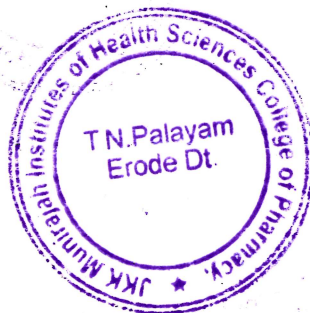
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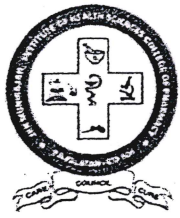
4. Which phase of clinical trials typically involves a larger patient population to confirm safety and efficacy?

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- C) Phase III
- D) Phase IV



  
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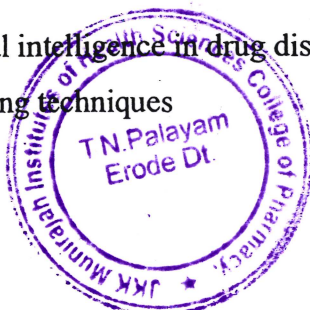
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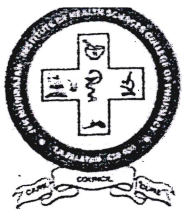
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## INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY (PDD2004)

Name of Student: Abinath A

Course & Year: B.Pharm First year

Registration No: 560020516501

Semester:

Date: 30.01.2024

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

24  
30

1. What is the primary goal of preclinical studies in drug development?

- A) To assess drug safety and efficacy in humans
- B) To manufacture the drug on a large scale
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2. What is the purpose of Phase I clinical trials in drug development?

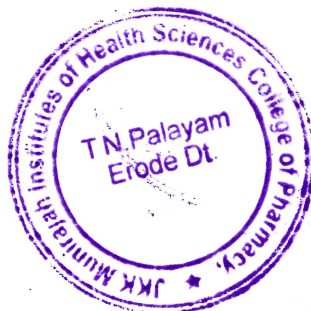
- A) To confirm safety and efficacy in a broad patient population
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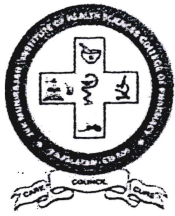
- A) Phase I
- B) Phase II
- C) Phase III
- D) Phase IV



*[Handwritten Signature]*

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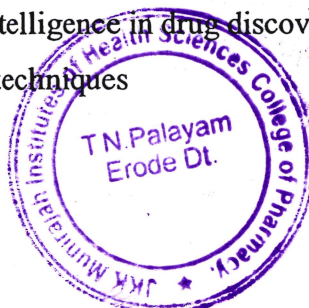
- A) Conducting clinical trials
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9. In drug development, what does the term "bioequivalence" refer to?

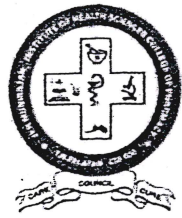
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10. What are some future trends in pharmaceutical sciences mentioned in the text?

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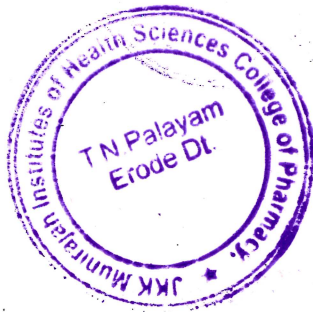
## INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY (PDD2004)

Name of Student: R. Divya  
Registration No: 560020516518  
Date: 30.01.2021

Course & Year: B. Pharm I<sup>st</sup> Year  
Semester:  
Marks Secured:  $\frac{24}{30}$

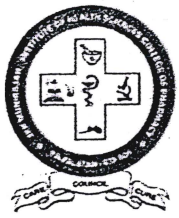
Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of preclinical studies in drug development?
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  - C) Phase III ✓
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5. What is the term for drugs that are bioequivalent to brand-name drugs and are often more affordable?

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- A) Insulin
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8. What is the role of post-marketing surveillance in pharmaceutical sciences?

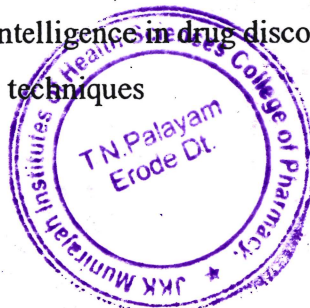
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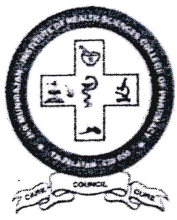
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## INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY (PDD2004)

Name of Student: GRACY.S

Course & Year: B.Pharm I<sup>st</sup> year

Registration No: 560020516526

Semester:

Date: 30.1.21

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary goal of preclinical studies in drug development?

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$\frac{27}{30}$

2. What is the purpose of Phase I clinical trials in drug development?

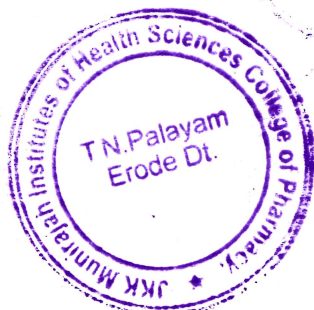
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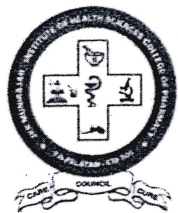
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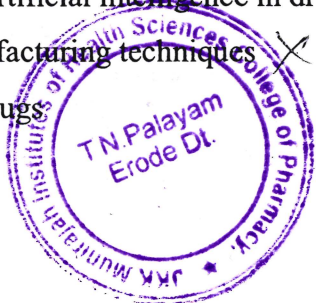


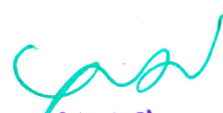
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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

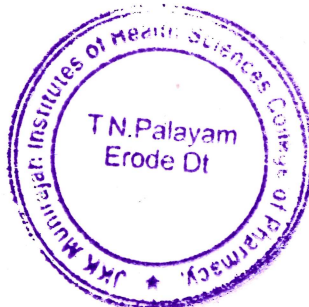
## ADD-ON COURSE: ANSWER KEY


Course Code : PDD2004  
Course Name : INTRODUCTION TO PHARMACEUTICAL SCIENCES: EXPLORING THE DRUG DEVELOPMENT JOURNEY  
Date : 12.12.2020 to 30.01.2021 (All Saturday)  
Course & Year : B. Pharm First Year

## ANSWER KEY

1. C) To identify potential drug candidates
2. C) To evaluate safety and dosage in a small group of healthy volunteers
3. B) New Drug Application (NDA)
4. C) Phase III
5. B) Generic drugs
6. A) Tailoring treatments to an individual's genetic makeup
7. C) Monoclonal antibodies
8. C) Assessing drug safety and effectiveness after market approval
9. D) The similarity in the rate and extent of drug absorption compared to a reference product
10. B) Nanotechnology and artificial intelligence in drug discovery

  
Co-Ordinator



  
Principal  
JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N. Palayam,  
Gobi (Tk), Erode (Dt) - 638 506



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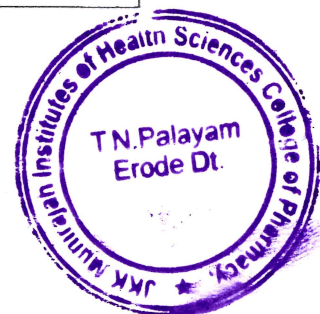
## MARK STATEMENT

Course Code : PDD2004  
Course Name : INTRODUCTION TO PHARMACEUTICAL SCIENCES:  
EXPLORING THE DRUG DEVELOPMENT JOURNEY  
Date : 12.12.2020 to 30.01.2021 (All Saturday)  
Course & Year : B. Pharm First Year

S.No	Student Name	Registration Number	Mark Secured
1	ABINATH A	560020516501	24
2	ABIRAMI K	560020516502	24
3	ABIRAMI L	560020516503	21
4	AINESH S	560020516504	24
5	AJAY A	560020516505	24
6	AKASH G	560020516506	27
7	ARAVIND V	560020516508	24
8	ARAVINDHAN V	560020516509	27
9	ARIVAZHAGAN S	560020516510	24
10	ARUN A	560020516511	24
11	ARUNPRAVIN K R	560020516512	24
12	ARUN BHARATHI A	560020516513	21
13	AYYANAR A	560020516514	24
14	BHARATH KUMAR T	560020516515	27
15	DHAMOTHARAN T	560020516516	24
16	DIVYA R	560020516518	24
17	ESWARAN A	560020516519	27
18	GIRIDHARAGANAPATHI R	560020516521	24
19	GOKULNATH K	560020516522	21
20	GOKULPRASATH K	560020516523	21
21	GOPINATH P	560020516524	24
22	GRACY S	560020516526	27
23	GUNA N	560020516527	24
24	JEEVA M	560020516528	30
25	KALAIMUHILAN B	560020516530	21

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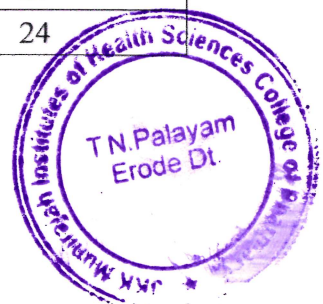
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S.No	Student Name	Registration Number	Mark Secured
26	KALEESWARAN K	560020516531	24
27	KARTHIKEYAN C	560020516532	24
28	KEERTHIKA A	560020516534	27
29	KESAVAMOORTHY S	560020516535	24
30	KISHORE M	560020516536	27
31	KOKILA V	560020516537	24
32	KOWSALYA S	560020516538	24
33	LOKEHWARAN E	560020516539	21
34	MADHANKUMAR M	560020516540	21
35	MANIGANDAN N	560020516542	24
36	MANIKANDAN N	560020516543	21
37	MANOJ PRAKASH S	560020516544	21
38	MITHUNCHAKRAVARTHI S	560020516546	24
39	MONISHA M	560020516547	24
40	MOWLISHWARAN R	560020516548	27
41	NAVEEN S	560020516549	21
42	NAVEEN V	560020516550	27
43	PAVITHRA S	560020516551	24
44	PERARASAN M	560020516552	21
45	POOVENTHAN K	560020516553	24
46	PRAVEEN V	560020516554	21
47	RAJ NARENDRAN M	560020516555	24
48	RAMYA E	560020516556	27
49	RANJITH KUMAR R	560020516557	21
50	RANJITHKUMAR S	560020516558	27
51	RISHIKESAVAN M	560020516559	21
52	RUTHNAKUMAR S	560020516560	24
53	RUVITHA P	560020516561	24
54	SARANATHI K	560020516562	21
55	SARATHI D	560020516563	21
56	SATHISH S	560020516564	24
57	SHAJAHAN S	560020516566	27
58	SONA R	560020516567	27
59	SOUNDAR K	560020516568	27
60	SUBARANJANI P G	560020516569	24

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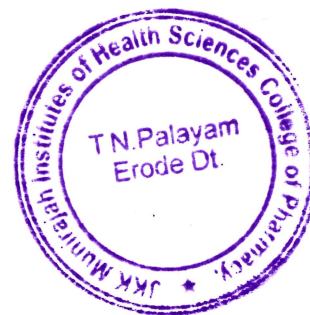




# JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

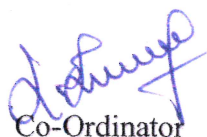
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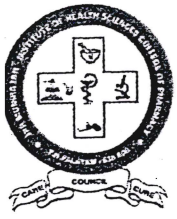
S.No	Student Name	Registration Number	Mark Secured
61	SUNDARRAJAN G	560020516570	24
62	SURENDHAR M	560020516571	27
63	SUSEENDHARAN V A	560020516572	24
64	TAMILSELVAM T	560020516573	21
65	THAIARASAN V	560020516574	21
66	TIVIN T V	560020516575	24
67	VAITHEESWARAN V	560020516576	21
68	VENKATESA PERUMAL M	560020516577	21
69	VIGNESHWARAN S	560020516578	24
70	VIJAY V	560020516579	21
71	VIJO G	560020516580	24
72	VIMAL P	560020516581	24
73	YUVARAJ KRISHNAN N	560020516584	21



  
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Co-Ordinator



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## ADD ON COURSE FEEDBACK FORM

Name of the student: **RAMYA.E**

Course & Year: **B. Pharm First Year**

Registration No: **560020516556**

Date: **30-1-2021**

Name of the Course: **INTRODUCTION TO PHARMACEUTICAL SCIENCES**  
Evaluating the Following Questions **EXPLORING THE DRUG DEVELOPMENT JOURNEY**

1. This Course was interesting

- a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

2. Was this course useful

- a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

3. During the course did you find any technical difficulties?

- a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

- a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

5. The subject matter was presented effectively

- a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

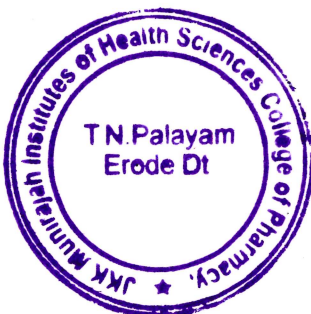
- a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

7. The resource person provided information I can use to be successful in my career

- a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree

8. Overall how do you rate the Training Program?

- a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree



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Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: KISHORE M Course & Year: B. PHARM FIRST YEAR

Registration No: 5600205165636 Date: 30.01.2021

Name of the Course: INTRODUCTION TO PHARMACEUTICAL SCIENCES  
EXPLORING THE DRUG DEVELOPMENT JOURNEY

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree  b. Agree  c. Moderate  d. Disagree  e. Strongly Disagree

2. Was this course useful

a. Strongly Agree  b. Agree  c. Moderate  d. Disagree  e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree  b. Agree  c. Moderate  d. Disagree  e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree  b. Agree  c. Moderate  d. Disagree  e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree  b. Agree  c. Moderate  d. Disagree  e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

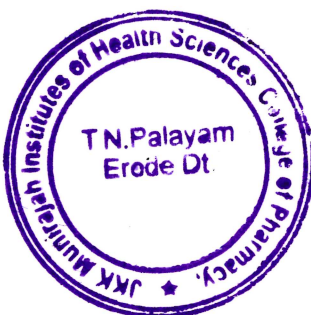
a. Strongly Agree  b. Agree  c. Moderate  d. Disagree  e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

a. Strongly Agree  b. Agree  c. Moderate  d. Disagree  e. Strongly Disagree

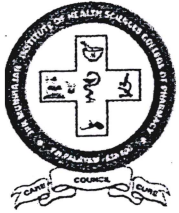
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## ADD ON COURSE FEEDBACK FORM

Name of the student: VIJO G

Course & Year: B-PHARM FIRST

Registration No: 560020516580

Date: 30.01.2021

Name of the Course: INTRODUCTION TO PHARMACEUTICAL SCIENCES -

EXPLORING THE DRUG DEVELOPMENT JOURNEY  
Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

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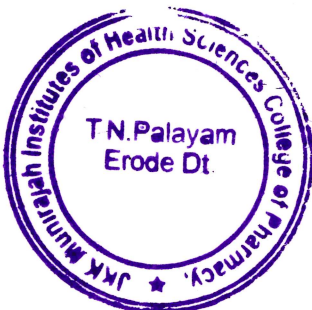
- a. Strongly Agree    b. Agree    c. Moderate     d. Disagree    e. Strongly Disagree

7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

8. Overall how do you rate the Training Program?

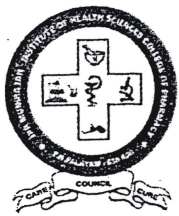
- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



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VIJO G  
Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: GRACY . S

Course & Year: B.Pharm FIRST YEAR

Registration No: 56 00 20 5 16 526

Date: 30.01.2021.

Name of the Course: INTRODUCTION TO PHARMACEUTICAL SCIENCE : EXPLORING THE  
DRUG DEVELOPMENT JOURNEY

Evaluating the Following Questions

1. This Course was interesting

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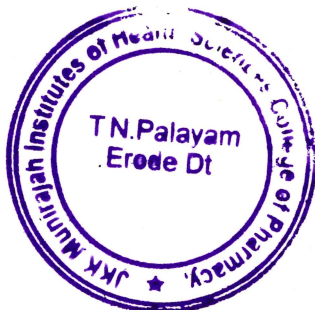
a. Strongly Agree    b. Agree    c. Moderate    d. Disagree     e. Strongly Disagree


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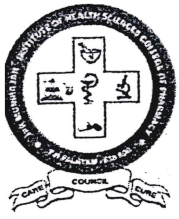
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Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: *M. Jeeva*

Course & Year: *B.Pharm FIRST YEAR*

Registration No: *560020516528*

Date: *30.01.2021*

Name of the Course: *INTRODUCTION TO PHARMACEUTICAL SCIENCES EXPLORING THE DRUG DEVELOPMENT JOURNEY*

Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

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8. Overall how do you rate the Training Program?

- a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree



*Jeeva*  
Principal  
JKK Munirajah Institute of Health Sciences  
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*Jeeva*  
Student Signature



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## ADD-ON COURSE - SYLLABUS

Course Code : HPA2005  
Course Name : HEALTH POLICY AND ADMINISTRATION  
Date : 13.02.2021 to 27.03.2021 (All Saturday)  
Course & Year : Pharm. D First Year

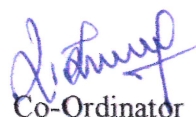
Course Objective : To provide students with a well-rounded understanding of the healthcare system, the policies that govern it, and the skills necessary for effective leadership and administration in the healthcare sector

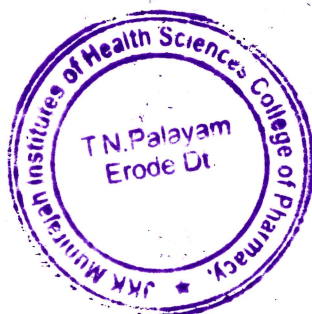
S.No	Topic	Hours
1	<b>UNIT-I:</b> Introduction, Health Care System before Adoption of National Health Policy (NHP), 1983, Bhore Committee Report, National health policy, 2017, Progressively achieve Universal Health Coverage, Reinforcing trust in Public Health Care System	7
2	<b>UNIT-II:</b> Health Status and Programme Impact, Health Systems Performance, Primary healthcare service and committee, Re-Orienting Public Hospitals	8
3	<b>Unit-III:</b> Closing Infrastructure and Human Resources/Skill Gaps National Health Programmes Communicable Diseases Non-Communicable Diseases	8
4	<b>UNIT IV:</b> Paramedical Skills: Public Health Management Care, Purchasing of Healthcare Services, Tissue and organ transplantations, Regulation of Clinical Establishments, Drug Regulation, Governance Role of Centre & State, Legal Framework for Health Care and Health Pathway, Implementation frame work	8


### Course Outcome:

After the successful completion of this course, the student shall be able to:

1. The education in healthcare policy and administration is instrumental in producing professionals who can contribute positively to the healthcare sector, drive improvements in healthcare delivery, and advocate for policies that enhance public health and patient outcomes.
2. These outcomes have a significant impact on the healthcare system's overall effectiveness and efficiency.
3. Policies and practices in this field continue to evolve as healthcare systems face ongoing challenges and opportunities for improvement.

  
Co-Ordinator



  
Principal  
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**ADD-ON COURSE NAME: HEALTH POLICY AND ADMINISTRATION**

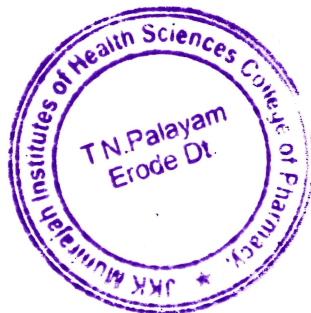
**Course Code: HPA2005**


## **RESOURCE PERSON**



**Name** : Mr. S. SHARMA  
**Qualification** : M. Pharm.,  
**Designation** : Associate Professor  
**Department** : Pharmaceutics  
**Organization** : JKK Munirajah Institute of Health Sciences College of Pharmacy,  
Erode, Tamilnadu.  
**Area of Specialization** : Pharmaceutics, Physical Pharmacy, Industrial Pharmacy, Novel Drug  
Delivery System, Novel Drug Delivery System  
**Phone number** : +91 97886 39999  
**Mail-ID** : [sharma@jkkmihscep.org](mailto:sharma@jkkmihscep.org)  
**Experience** : 06 Year 07 Months

  
Co-Ordinator



  
Principal  
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**ADD-ON COURSE NAME: HEALTH POLICY AND ADMINISTRATION**

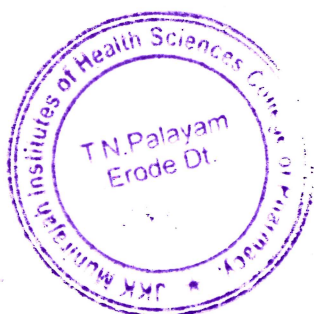
**Course Code: HPA2005**


## **RESOURCE PERSON**



**Name** : Mr. K. BALASUBRAMANIAN  
**Qualification** : M.Pharm.,  
**Designation** : Associate Professor  
**Department** : Pharmaceutics  
**Organization** : JKK Munirajah Institute of Health Sciences College of Pharmacy,  
Erode, Tamilnadu.  
**Area of Specialization** : Pharmaceutical Formulation, Pharmaceutical Engineering, Novel Drug  
Delivery System, Biopharmaceutics, Cosmetic Science.  
**Phone number** : +91 90252 42575  
**Mail-ID** : [kbalasubramanian@jkkmihscep.org](mailto:kbalasubramanian@jkkmihscep.org)  
**Experience** : 05 Years 01 Months.

  
Co-Ordinator



  
Principal  
JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N.Palayam,  
Gobi (Tk), Erode (Dt) - 638 506



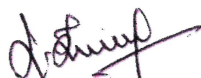
# JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

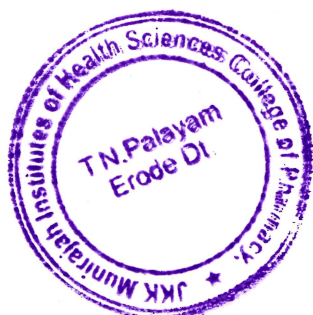
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## ADD-ON COURSE - SCHEDULE

Course Code : HPA2005  
Course Name : HEALTH POLICY AND ADMINISTRATION  
Date : 13.02.2021 to 27.03.2021 (All Saturday)  
Course & Year : Pharm. D First Year

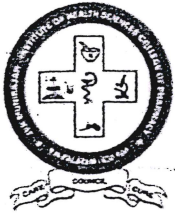
S. No	Topic	Hours
1	UNIT-I: Introduction, Health Care System before Adoption of National Health Policy (NHP), 1983, Bhore Committee Report, National health policy, 2017, Progressively achieve Universal Health Coverage, Reinforcing trust in Public Health Care System	13.02.2021 Mr. S. Sharma & Mr. K. Balasubramanian
2	UNIT-II: Health Status and Programme Impact, Health Systems Performance, Primary healthcare service and committee, Re-Orienting Public Hospitals	19.12.2020 Mr. S. Sharma & Mr. K. Balasubramanian
3	Unit-III: Closing Infrastructure and Human Resources/Skill Gaps National Health Programmes Communicable Diseases Non-Communicable Diseases	09.01.2021 Mr. S. Sharma & Mr. K. Balasubramanian
4	UNIT IV: Paramedical Skills: Public Health Management Care, Purchasing of Healthcare Services, Tissue and organ transplantations	23.01.2021 Mr. S. Sharma & Mr. K. Balasubramanian
5	Regulation of Clinical Establishments, Drug Regulation, Governance Role of Centre & State, Legal Framework for Health Care and Health Pathway, Implementation frame work	30.01.2021 Mr. S. Sharma & Mr. K. Balasubramanian

  
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## HEALTH POLICY AND ADMINISTRATION (HPA2005)

Name of Student: SURYA PRAKASH . M

Course & Year: Pharm . D I<sup>st</sup> year

Registration No: 380020516518

Semester:

Date: 27.3.2021

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary role of health policy in healthcare systems?

- A) Direct patient care
- B) Clinical research
- C) Regulation and compliance
- D) Management of healthcare facilities

2. Which level of government is responsible for implementing public health policies in a specific city or region?

- A) Federal government
- B) State government
- C) Local government
- D) International organizations

3. What is the purpose of healthcare financing in health policy and administration?

- A) Providing medical training
- B) Regulating pharmaceuticals
- C) Ensuring funding for healthcare services
- D) Managing healthcare facilities

4. Which of the following is NOT a key responsibility of healthcare administrators?

- A) Managing healthcare facilities
- B) Developing healthcare policies
- C) Budgeting and financial management
- D) Strategic planning

5. What is the term for the goal of ensuring that all individuals have access to necessary healthcare services, regardless of their background or financial status?

- A) Healthcare disparity
- B) Health insurance
- C) Healthcare equity
- D) Telemedicine



*[Signature]*  
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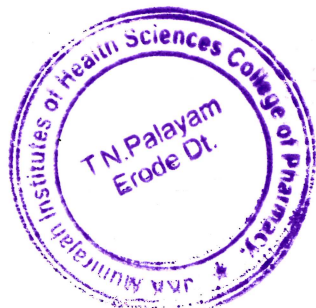
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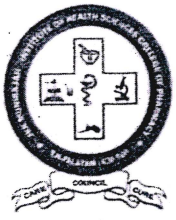
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6. Which of the following is a common tool used to monitor and improve the quality of healthcare services?
- A) Electronic Health Records (EHRs)
  - B) Health insurance premiums
  - C) Medical malpractice lawsuits
  - D) Patient waiting times
7. What role does public health play in health policy and administration?
- A) Managing healthcare facilities
  - B) Preventing and controlling diseases
  - C) Administering health insurance
  - D) Conducting clinical research
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  - C) Autonomy
  - D) Justice
9. Which organization is responsible for overseeing the approval and regulation of medications and medical devices in the United States?
- A) World Health Organization (WHO)
  - B) European Medicines Agency (EMA)
  - C) Centers for Disease Control and Prevention (CDC)
  - D) U.S. Food and Drug Administration (FDA)
10. What term describes the use of technology to provide healthcare services remotely, often via videoconferencing or telecommunication networks?
- A) Electronic Health Records (EHRs)
  - B) Health Information Management (HIM)
  - C) Telemedicine
  - D) Biotechnology



  
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## HEALTH POLICY AND ADMINISTRATION (HPA2005)

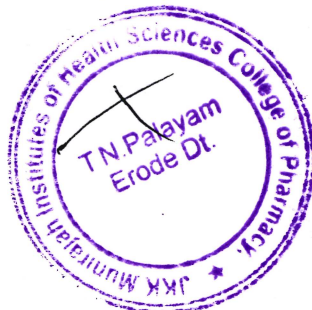
Name of Student: D. Divyashya  
Registration No: 380020616503  
Date: 27.3.21


Course & Year: Pharm D. I<sup>st</sup> Year  
Semester:  
Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

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A) Direct patient care  
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2. Which level of government is responsible for implementing public health policies in a specific city or region?  
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B) Health insurance ✓  
C) Healthcare equity  
D) Telemedicine

27  
30



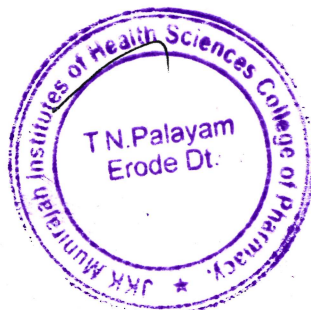
  
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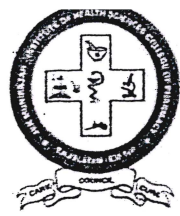
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## HEALTH POLICY AND ADMINISTRATION (HPA2005)

Name of Student: ARVINDAN. C

Course & Year: Pharm. D I-year

Registration No: 380020516501

Semester:

Date: 27-03-21

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary role of health policy in healthcare systems?

- A) Direct patient care
- B) Clinical research
- C) Regulation and compliance
- D) Management of healthcare facilities

27  
30

2. Which level of government is responsible for implementing public health policies in a specific city or region?

- A) Federal government
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3. What is the purpose of healthcare financing in health policy and administration?

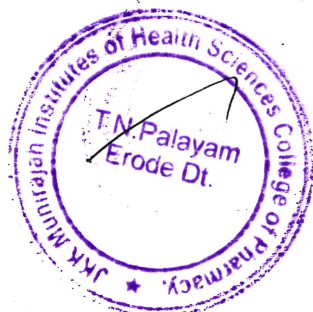
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- C) Healthcare equity
- D) Telemedicine



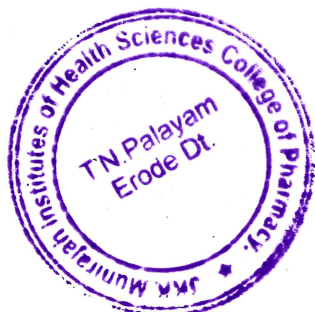
*[Signature]*  
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## HEALTH POLICY AND ADMINISTRATION (HPA2005)

Name of Student: Ajuna Kumari M

Course & Year: Pharm D First year

Registration No: 380020516502

Semester:

Date: 27.03.21

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary role of health policy in healthcare systems?

- A) Direct patient care
- B) Clinical research
- C) Regulation and compliance
- D) Management of healthcare facilities

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30

2. Which level of government is responsible for implementing public health policies in a specific city or region?

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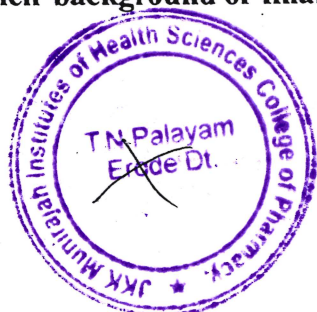
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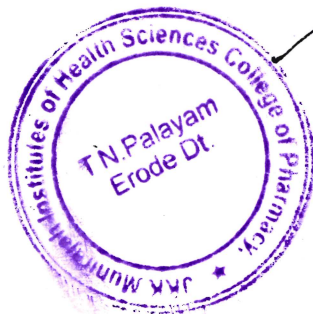
  
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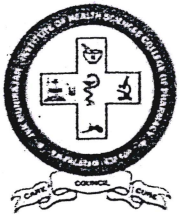
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## HEALTH POLICY AND ADMINISTRATION (HPA2005)

Name of Student: Gowu Moorthi : N

Course & Year: Pharm. D 1<sup>st</sup> Year

Registration No: 380020516504

Semester:

Date: 27.03.21

Marks Secured:

Answer All Multiple-Choice Questions (10 × 3 = 30)

1. What is the primary role of health policy in healthcare systems?

- A) Direct patient care
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- D) Management of healthcare facilities

30  
30

2. Which level of government is responsible for implementing public health policies in a specific city or region?

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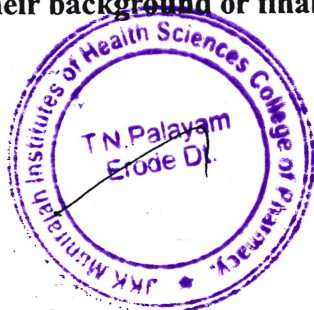
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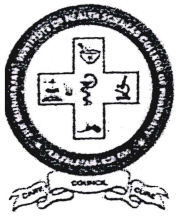
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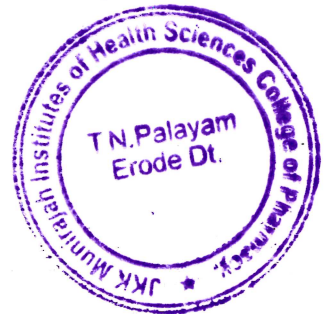
  
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*[Handwritten Signature]*

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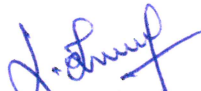
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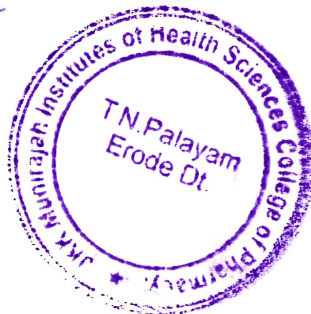
## ADD-ON COURSE: ANSWER KEY


Course Code : HPA2005  
Course Name : HEALTH POLICY AND ADMINISTRATION  
Date : 13.02.2021 to 27.03.2021 (All Saturday)  
Course & Year : Pharm. D First Year

## ANSWER KEY

1. C) Regulation and compliance
2. C) Local government
3. C) Ensuring funding for healthcare services
4. B) Developing healthcare policies
5. C) Healthcare equity
6. A) Electronic Health Records (EHRs)
7. B) Preventing and controlling diseases
8. C) Autonomy
9. D) U.S. Food and Drug Administration (FDA)
10. C) Telemedicine

  
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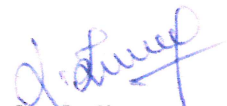
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## MARK STATEMENT

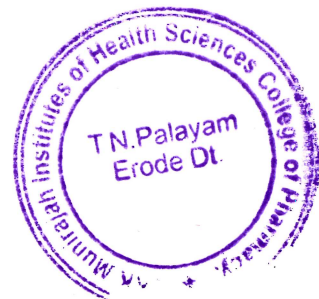
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Date : 13.02.2021 to 27.03.2021 (All Saturday)  
Course & Year : Pharm. D First Year

S.No	Student Name	Registration Number	Mark Secured
1	ARVINDAN C	380020516501	27
2	ARUN KUMAR M	380020516502	24
3	DINESHIYA D	380020516503	27
4	GURU MOORTHY N	380020516504	30
5	ILAVARASAN D M	380020516505	21
6	JANAT SELVIYA P	380020516506	27
7	JINJA J	380020516508	24
8	KAVIARASAN R	380020516509	30
9	NISHANTH KUMAR S	380020516511	24
10	PRAGATHEESWARI M	380020516513	24
11	PRAVEEN G	380020516514	24
12	RITHIKA R P	380020516515	27
13	SAMUVEL R	380020516516	24
14	SURYAPRAKASH M	380020516518	24
15	VENKATESAN K	380020516519	27
16	VENKATESH E	380020516520	24
17	WINSHA MERLIN GOLD E	380020516521	27

  
Co-Ordinator

  
Principal

JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N.Palayam,  
Gobi (Tk), Erode (Dt) - 638 506



# JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

(Approved by Tamil Nadu Govt. & Pharmacy Council of India - New Delhi, Affiliated to The Tamil Nadu Dr. M.G.R Medical University, Chennai )  
Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

## ADD ON COURSE FEEDBACK FORM

Name of the student: GIJURUMOORTHIN Course & Year: Pharm.D First year

Registration No: 380020516504 Date: 27.03.2021

Name of the Course: HEALTH POLICY AND ADMINISTRATION

Evaluating the Following Questions

- This Course was interesting  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- Was this course useful  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- During the course did you find any technical difficulties?  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- Did the resource person delivered the information, you didn't know already?  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- The subject matter was presented effectively  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- The resource person helped me learn about how the course works in the real world  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- The resource person provided information I can use to be successful in my career  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- Overall how do you rate the Training Program?  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree



Principal  
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Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: RITHIKA RP

Course & Year: Pharm. D First year

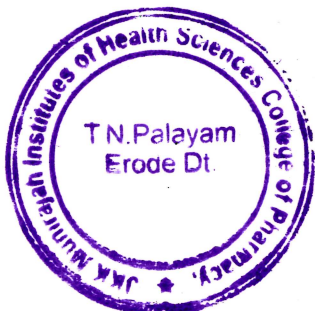
Registration No: 380020516515


Date: 27.03.2021

Name of the Course: HEALTH POLICY AND  
ADMINISTRATION

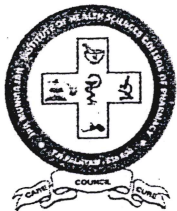
Evaluating the Following Questions

- This Course was interesting  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- Was this course useful.  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- During the course did you find any technical difficulties?  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- Did the resource person delivered the information, you didn't know already?  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- The subject matter was presented effectively  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- The resource person helped me learn about how the course works in the real world  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- The resource person provided information I can use to be successful in my career  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree
- Overall how do you rate the Training Program?  
a.  Strongly Agree    b.  Agree    c.  Moderate    d.  Disagree    e.  Strongly Disagree



  
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Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: PRAVEEN GI

Course & Year: Pharm.D First year

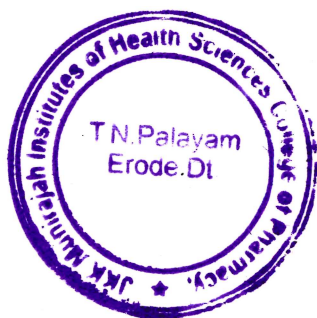
Registration No: 380020516514

Date: 27.03.2021

Name of the Course: HEALTH POLICY AND ADMINISTRATION

### Evaluating the Following Questions

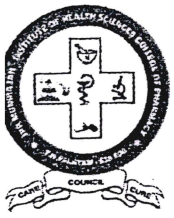
- This Course was interesting  
a. Strongly Agree    b. Agree    c. Moderate    d. Disagree     e. Strongly Disagree
- Was this course useful  
a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- During the course did you find any technical difficulties?  
a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree
- Did the resource person delivered the information, you didn't know already?  
a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- The subject matter was presented effectively  
a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree
- The resource person helped me learn about how the course works in the real world  
a. Strongly Agree    b. Agree    c. Moderate     d. Disagree    e. Strongly Disagree
- The resource person provided information I can use to be successful in my career  
 a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree
- Overall how do you rate the Training Program?  
a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



*[Handwritten Signature]*

Principal  
JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N. Palayam,  
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*[Handwritten Signature]*  
Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: JINJA J

Course & Year: Pharm-D First year

Registration No: 380020516508

Date: 27.03.2021

Name of the Course: Health Policy And Administration

Evaluating the Following Questions

1. This Course was interesting

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

2. Was this course useful

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

3. During the course did you find any technical difficulties?

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

5. The subject matter was presented effectively

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

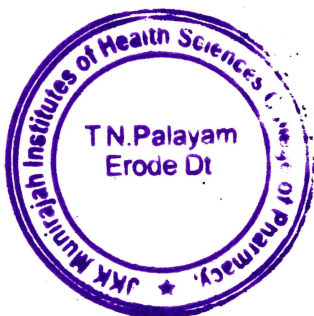
a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree


7. The resource person provided information I can use to be successful in my career

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree

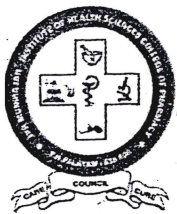
8. Overall how do you rate the Training Program?

a. Strongly Agree     b. Agree     c. Moderate     d. Disagree     e. Strongly Disagree



  
Principal  
JKK Munirajah Institute of Health Sciences  
College of Pharmacy, T.N. Palayam,  
Gobi (Tk), Erode (Dt) - 638 506

  
Student Signature



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## ADD ON COURSE FEEDBACK FORM

Name of the student: Arun Kumar.M

Course & Year: Pharm .D First Year

Registration No: 380020516502

Date: 27.03.2021

Name of the Course: Health Policy and Administration

Evaluating the Following Questions

1. This Course was interesting

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

2. Was this course useful

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

3. During the course did you find any technical difficulties?

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

4. Did the resource person delivered the information, you didn't know already?

- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

5. The subject matter was presented effectively

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree

6. The resource person helped me learn about how the course works in the real world

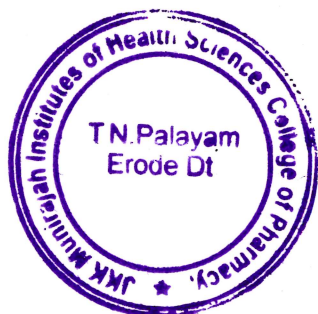
- a. Strongly Agree    b. Agree     c. Moderate    d. Disagree    e. Strongly Disagree

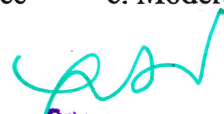
7. The resource person provided information I can use to be successful in my career

- a. Strongly Agree    b. Agree    c. Moderate    d. Disagree     e. Strongly Disagree

8. Overall how do you rate the Training Program?

- a. Strongly Agree     b. Agree    c. Moderate    d. Disagree    e. Strongly Disagree



  
Principal  
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College of Pharmacy, T.N. Palayam,  
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Student Signature