

ADITYA

COLLEGE OF PHARMACY

Approved by AICTE & PCI - NEW DELHI, Affiliated to JNTUK KAKINADA
(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

Ph: 99498 76664

Email: office@acop.edu.in

Website: www.acop.edu.in

ADD ON / CERTIFICATE PROGRAM

2022-2023

S. NO	Name of add on / certificate course offered	Branch & year of offering	Number of students completing the course in the year	Type of add-on course
1	Pharmaceutical sales and marketing	IV B.PHARMACY	95	Self – Framed Course
2	Hands on Training of Laboratory Techniques In Organic Synthesis”	III PHARM D	25	Self – Framed Course
3	Good laboratory practices for fail-safe and effective experimentation”	II B.PHARMACY	97	Self – Framed Course
4	Improving mental health and suicidal prevention	I B.PHARMACY & I PHARM D	151	Self – Framed Course
5	Handling of Animals	IV PHARM D	26	Self – Framed Course
6	Hands on training program in analytical instruments	III B.PHARMACY	99	Self – Framed Course
Total No. of Students Enrolled			493	



Dr. Anurag Chandra
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SURAMPALEM- 533 437





ADITYA COLLEGE OF PHARMACY

Aditya nagar, Surampalem,
Andhra Pradesh 533437



A VALUE-ADDED course on "Pharmaceutical sales and marketing"

Eligibility: III B.Pharmacy

Students who are interested to join the value-added course should contact the respective coordinator

Coordinator: K.Keerthi sai
Asst. Professor,
Aditya College of Pharmacy

Resource Person: P.Prashanthi
Asso. Professor,
Aditya College of Pharmacy

Convener: Dr.K.Ravishankar
Principal,
Aditya College of Pharmacy

Patron: Dr.N. Satish Reddy
Vice-Chairman,
Aditya Educational Institutions

DURATION:
09th July 2022
to
06th August 2022
(Every Saturday)



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All the students enrolled in this course will be provided with a certificate



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Website: www.acop.edu.in, Email: office@acop.edu.in

01-07-2022

CIRCULAR

This is to inform that all **IV B.Pharmacy** students is that our college is conducting Value Added course on “**Pharmaceutical sales and marketing**” as per the below schedule. The Students should contact the respective coordinator who is interested to join the Value added course.

Coordinator:

Timings: 09th July to 06th August, 2022 (Every Saturday)



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COURSE SYLLABUS

DURATION: 30Hrs

COURSE NAME: Value-added Course on Pharmaceutical Sales and Marketing

Course Objective:

Describe the concept of pharmaceutical marketing.

Demonstrate different pharmaceutical marketing channels

Understand the role of market research

Course Outcome:

To explain the concept of product management in pharmaceutical industry

To understand the various components of promotion of pharmaceutical products

To elaborate the role and responsibility of professional sales representative

To identify the roles and responsibilities of pricing authorities in India

To demonstrate the emerging concepts of marketing

DAY 1: 09-07-2022, 6Hrs

Module 1:

General Overview: Definition, general concepts, and scope of marketing; Distinction between marketing & selling; Marketing environment; Industry and competitive analysis;



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DAY 2: 16-07-2022, 6Hrs

Module 2:

Pharmaceutical market: Quantitative and qualitative aspects; size and composition of the market; demographic descriptions and socio-psychological characteristics of the consumer; market segmentation & targeting. Consumer profile;

DAY 3: 23-07-2022, 6Hrs

Module 3:

Product decision: Meaning, Classification, product line and product mix decisions, product life cycle, product portfolio analysis; product positioning; New product decisions; Product branding, packaging and labeling decisions,

DAY 4: 30-07-2022, 6Hrs

Module 4:

Promotion: Meaning and methods, determinants of promotional mix, promotional budget; An overview of personal selling, advertising, direct mail, journals, sampling, retailing, medical exhibition,

DAY 5: 06-08-2022, 6Hrs

Module 5:

Pricing: Meaning, importance, objectives, determinants of price; pricing methods and strategies, issues in price management in pharmaceutical industry. An overview of DPCO (Drug Price Control Order) and NPPA (National Pharmaceutical Pricing Authority).



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REFERENCE:

1. Lidstone, J., & MacLennan, J. (2017). *Marketing planning for the pharmaceutical industry*. Routledge.
2. Arora, U., & Taneja, G. (2006). An analytical study of physicians behaviour towards marketing of pharmaceutical products. *Indian Journal of Marketing*, 36(11).
3. Attarabeen, O., & Alkhateeb, F. M. (2013). Rollins B, Perri M.: Pharmaceutical Marketing. *American Journal of Pharmaceutical Education*, 77(6).
4. Lerer, L., & Piper, M. (2003). *Digital strategies in the pharmaceutical industry*. Basingstoke, UK: Palgrave Macmillan.




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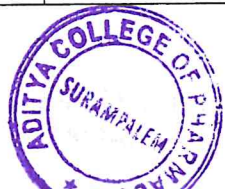
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Website: www.acop.edu.in, Email: office@acop.edu.in

Course Name: Value Added Course on “Pharmaceutical Sales and Marketing”

LIST OF STUDENTS ENROLLED

S NO	REG NO	STUDENT NAME	SIGNATURE
1	193H1R0001	ALLURI NALINI	
2	193H1R0002	ANKANI HEMA	
3	193H1R0003	BERA PAVANI	
4	193H1R0004	BODDETI SUDHEER	
5	193H1R0005	BOLEM DINESH TEJA	
6	193H1R0006	BONGU PRAMEELA	
7	193H1R0007	CHATRATI MURALI KRISHNA	
8	193H1R0008	CHINTAKAYALA NAGUR RAJU	



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9	193H1R0009	DARAPUREDDY GOWRI PRIYA	D. Gowri Priya
10	193H1R0010	DAYAM HELEENA SUKEERTHI	D. Sukeerthi
11	193H1R0011	DEVARAKONDA SEETHA LAKSHMI	S. Seethalakshmi
12	193H1R0012	DIVI BHARGAVI DEVI	Bhargavi Devi
13	193H1R0013	DWARAMPUDI MAHALAKSHMI	Mahalakshmi
14	193H1R0015	GUBBALA SONY MAHESH VARDHANI	G.S.M. Vardhani
15	193H1R0016	GUJJA THARUN	Tharun
16	193H1R0017	GUNAPU PUSHPA MADHURI	G.P. Madhuri
17	193H1R0018	INDIGA SAI SUDHA	Sai Sudha
18	193H1R0019	JAMMI SATYA VENKATA SURENUKA	J.S.V. Surenuka
19	193H1R0020	KADALI KUMARA VARA PRASAD	Kumar Varaprasad
20	193H1R0021	KODE JAHNAVI	Jahnavi
21	193H1R0022	KOPPISETTI LAKSHMI NARAYANA	Lakshmi Narayana
22	193H1R0023	KORIPALLI GIRISH SAI SAMPATH	Sampath
23	193H1R0024	KOSANAM EVANGIL "	K. Evangel
24	193H1R0025	KOTHADATTI MOUNIKA	K. Mounika



25	193H1R0028	KURRU GOVARDHINI	K. Govardhini
26	193H1R0029	LANKE SOWMYA	L. Sowmya
27	193H1R0030	MADDALA DURGA SESHAGIRI	M.D. Seshagiri
28	193H1R0031	MONANGI ASRITHA	M. Asritha
29	193H1R0032	MORTHA YAMINI	M. Yamini
30	193H1R0033	NALLI ANNEPREETHAM	N. Annepreetham
31	193H1R0034	NALLURI DIVYA SRI	N. Divya Sri
32	193H1R0035	NEELAPALA SURYA MAHALAKSHMI	N. S. Mahalakshmi
33	193H1R0037	PAILA KEERTHI	Keerthi P.
34	193H1R0039	PATTA SWAPNA	Patta Swapna
35	193H1R0040	POLAKI SIREESHA	Sireesha
36	193H1R0041	POTHU SUNITHA	P. Sunitha
37	193H1R0042	REGAM SARASWATHI	Regam Saraswati
38	193H1R0043	SABBELLA DIVYA SRI	Divya Sri
39	193H1R0044	SALADI LIKHITHA	S. Likhitha
40	193H1R0045	SAMUDAYAPALEPU MOUNIKA	Mounika



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41	193H1R0046	SHAIK ASHROF SAMEER	S. Ashraf
42	193H1R0047	SIDDANTHAPU KALYANI	S. Kalyani
43	193H1R0048	SUDHABATTULA SAIBABU	S. Sai Babu
44	193H1R0049	SUPRAJA SIDDHANTAPU	Supraja Siddhantapu
45	193H1R0050	SURAMPUDI VEERA ANITHA	S. Anitha
46	193H1R0051	TEKI LEELE BHAVANI	Teki Leela Bhavani
47	193H1R0053	TUMPALA HARIKA RAMYA	T. Harika Ramya
48	193H1R0054	BANALA LIKHITHA	L. Likhitha
49	193H1R0055	VADDADI KRISHNA PRIYA	Vaddadi Krishna Priya
50	193H1R0056	AASTHA SINGH	Aastha Singh
51	193H1R0058	ABRAR ANSARI	A. Ansari
52	193H1R0061	AMATAM SAI MANOGNA	A. Sai Manogna
53	193H1R0062	ARCHANA KUMARI	Archana Kumari
54	193H1R0063	SOUVIK DAS	Souvik Das
55	193H1R0064	ARYAN KUMAR	Aryan Kumar
56	193H1R0065	ASHISH PRASAD KOHAR	Ashish Kohar



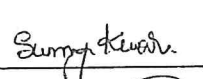



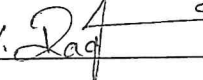
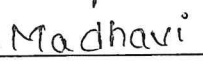

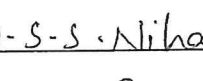
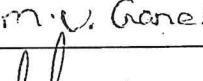
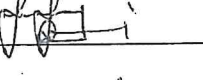
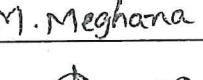
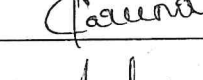




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57	193H1R0066	BANDE NAGA GANGA RAO	B. Ganga
58	193H1R0067	BIJAY KUMAR CHAUHAN	Bijay Kumar Chauhan
59	193H1R0068	BIKASH KUMAR RAUNIYAR	Bijay
60	193H1R0069	BIKASH KUMAR YADAV	Bijay
61	193H1R0071	GOVADA VEERAMANI	G. Veeramani
62	193H1R0073	HIMADRI SINHA	Himadri Sinha
63	193H1R0074	JUJJAVARAPU HEMASATISH	J. Hemasatish
64	193H1R0075	JUSTIN THANGSUOLIEN KHOBUNG	Justin Khobung
65	193H1R0076	K.KALPANA	Kalpana
66	193H1R0077	KADA RATNAKAR RAO	K. Ratnakar Rao
67	193H1R0078	KESHAB RUNGTA	Keshab Rungta
68	193H1R0080	MEDICHARLA KHANTESH VENKAT	M. Venkat
69	193H1R0081	PAPPU MAHATO TATMA	Pappu Mahato Tatma
70	193H1R0082	PASALA DURGA MALLESHWARI	Mallelu
71	193H1R0088	SOUMYADEEP KHATUA	Soumyadeep Khutua
72	193H1R0089	SOUVIK ADAK	Souvik

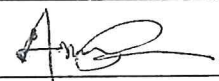

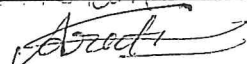






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73	193H1R0090	SUMIT KHAJURIA	
74	193H1R0091	SUMIT KUMAR GUPTA	
75	193H1R0092	SUNNY KUMAR	
76	193H1R0094	TEEPARTHI RANJITH KUMAR	
77	193H1R0096	VAKACHARLA SAI PRASANNA	
78	193H1R0097	VANAMADI KEERTHANA	
79	193H1R0098	VINNA YOGENDRA MEHER RAGHUVVEER	
80	193H1R0099	YAJJALA MADHAVI	
81	193H1R00A0	YALLA ALEKHYA DEVI	
82	193H1R00A1	DEVARA SRI SAI NIHARIKA	
83	193H1R00A2	UMMIDI VEERA MANI GANESH	
84	193H1R00A3	DONEPALLI SOMESWAR	
85	193H1R00A4	MALLIDI MEGHANA	
86	193H1R00A5	YALLA KARUNA	
87	193H1R00A6	JYOTHULA AMBICA NAGALAKSHMI	
88	193H1R00A9	AJAY KUMAR YADAV	



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89	193H1R00B2	ARUN BAHARDAR	
90	193H1R00B4	BIKRAM PANDEY	
91	193H1R00B5	ARATI KUMARI MAJHI	
92	193H1R00B6	NIRAJ KUMAR SAH	
93	193H1R00B7	SHYAM MANOHAR SHAH	
94	203H5R0001	LEELA SRI VENKATA DURGA	
95	203H5R0002	PADALA VEERA VENKATA SIVAJI	




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COURSE NAME : Pharmaceutical Sales and Marketing

MARKS: 30

DATE : 08-08-2022

REG NO: 193H1R0009

1. Marketing is a process which aims at _____.

[C]

- a) Selling products
- b) Maximizing profits
- c) Satisfying customers
- d) Producing

2. "Many people want a BMW but only a few are able to buy", is an example

[C]

- a) Need
- b) Want
- c) Demand
- d) status

3. _____ is the father of modern marketing.

[B]

- a) Peter Drucker
- b) Philip Kotler
- c) Adam Smith
- d) Henry Fayol

4. Marketing is _____

[C]

- a) Art
- b) Science
- c) Both
- d) Neither

5. The buying process starts when the buyer recognizes a _____.

[D]

- a) Product
- b) an advertisement for the product



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- c) a salesperson from a previous visit
- d) problem or need

6. _____ refers to collecting goods of the same type from various sources of supply. [C]

- a) Buying
- b) Selling
- c) Assembling
- d) Financing

7. Which function helps in place utility ?

[A]

- a) Transportation
- b) Financing
- c) Risk bearing
- d) Selling

8. Which function gives "time utility"?

[D]

- a) Transportation
- b) Financing
- c) Risk bearing
- d) Warehousing

9. The standardised grade name for agricultural product is _____.

[A]

- a) Agmark
- b) ISI
- c) Aavin
- d) BIS

10. Aggressive selling is a characteristic of which of the following concept of marketing?

[C]

Select correct option:

- a) Production concept



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- b) Marketing concept
- c) Selling concept
- d) Product concept

11. Adding new features to a product is advocated by which of the approaches? [B]

- a) Product Approach
- b) Production Approach
- c) Marketing Approach
- d) Selling Approach

12. One of the key tasks of marketers is _____ and to create consumer perceptions that the product is worth purchasing. [C]

- a) To make products easily visible and available
- b) To promote sales of products
- c) To differentiate their products from those of competitors
- d) To do marketing surveys

13. Which one of the following BEST describes the human need? [A]

- a) Food
- b) French-fries
- c) Burger
- d) Pizza

14. _____ provides fast and accurate marketing information. [A]

- a) Marketing Information System
- b) Management Information System
- c) Maintenance Information System
- d) All of the above

15. _____ includes the complete analysis of the market. [A]

- a) Marketing Research
- b) Management Research



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- c) Maintenance Research
- d) All of the above

16. _____ is a function of physical supply.

[A]

- a) Transportation
- b) Financing
- c) Risk bearing
- d) Selling

17. _____ is a means to reduce risk.

[A]

- a) Insurance
- b) Financing
- c) Risk bearing
- d) Selling

18. The word "market" is derived from the latin word _____.

[B]

- a) Marketing
- b) Marcatus
- c) Marque
- d) Markatus

19. Stock exchange of Mumbai is an example for _____.

[C]

- a) Perfect market
- b) Manufacture market
- c) Imperfect market
- d) Regulated market

20. _____ is a connecting link between the consumer and the producer.

[A]

- a) Marketing
- b) Selling
- c) Consumption
- d) Buying

21. Anything that can be offered to a market for attention, acquisition, use, or consumption that



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might satisfy a want or need is called a(n):

[C]

- a) Idea.
- b) Demand.
- c) Product.
- d) Service.

22. The most basic level of a product is called the:

[A]

- a) Core product.
- b) Central product.
- c) Fundamental product.
- d) Augmented product

23. A(n) _____ product exceeds customer expectations.

[C]

- a) Strategic
- b) Superior
- c) Augmented
- d) Anticipated

24. Identify the products that the customer usually buys frequently and with a minimum of

comparison and buying effort.

[B]

- a) Specialty
- b) Convenience
- c) Unsought
- d) Augmented

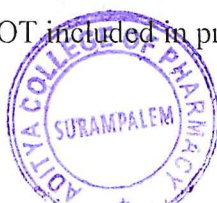
25. Bread and milk are which kind of products?

[B]

- a) Specialty Products
- b) Convenience products
- c) Shopping products
- d) Unsought products

26. Which of the following is NOT included in product decisions?

[C]



- a) Styling
- b) Brand name
- c) Warehousing
- d) Packaging

27. If actual performance of the product exceeds the expected performance of the product, Then

customer is _____

[D] ✓

- a) Satisfied
- b) Dissatisfied
- c) Delighted
- d) Neutral

28. Who pioneered sachet strategy in shampoos?

[D] ✓

- a) Clinic plus
- b) Chik
- c) Sunsilk
- d) Dove

29. Which of the following is a name, term, sign, symbol, design, or a combination of these, that

identifies that maker or seller of a product or service?

[C] ✓

- a) Label
- b) Co-brand
- c) Brand
- d) Product

30. The _____ identifies the product or brand.

[B] ✓

- a) Container
- b) Label
- c) Advertisement
- d) Warranty



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CERTIFICATE COURSE SUMMARY 2022-23

COURSE CODE AND NAME : VPSM and Pharmaceutical Sales and Marketing

COURSE DURATION : 30Hrs

BRANCH AND YEAR OFFERED: IV B.Pharmacy

COURSE INSTRUCTORS :

COURSE OUTCOME

Student would be able to understand the concept of product management in pharmaceutical industry, various components of promotion of pharmaceutical products and to elaborate the role and responsibility of professional sales representative

COURSE TYPE : Self framed course

ASSESSMENT MODE

DURATION : 30 Hours

NO.OF PARTICIPANTS : 95

SCHEME OF EXAM : MCQ Offline

DATE OF EXAM : 08-08-2022


Course coordinator




Principal

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Certificate of
Completion

This is to certify that Mr./Ms.

PAILA KEERTHI

bearing roll number 193H1R0037 has successfully
completed the Value Added course entitled
"Pharmaceutical sales and marketing" held in
Aditya College of Pharmacy, Surampalem from
09th July to 06th August, 2022

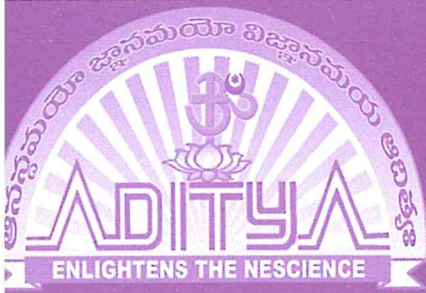
N. Sankar Reddy
Chairman

N. Sankar Reddy
Vice-Chairman



K. Anand Kumar
Director & Principal

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A VALUE ADDED COURSE ON HANDS ON TRAINING OF LABORATORY TECHNIQUES IN ORGANIC SYNTHESIS

CO ORDINATOR

A.S.GAYATRI

ASST PROFESSOR

**ELIGIBILITY
III PHARM D**

RESOURCE PERSON

B.N.B.VAIDEHI

ASSO PROFESSOR

**26TH AUGUST
TO
21ST OCTOBER
2022
(EVERY FRIDAY)**



Dr. A. S. Gayatri
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16-08-2022

CIRCULAR

This is to inform all the **III PharmD** students that our college is conducting value added course on “**Hands on training of laboratory techniques in organic synthesis**” as per the schedule given below. Students who are interested to join this course should contact the respective coordinator.

Coordinator: A.Gayatri

Timings: 26th August to 21st October, 2022 (Every Friday)



Principals

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SURAMPALEM- 533 437



ADITYA COLLEGE OF PHARMACY

(Affiliated to JNTUK, Approved by AICTE)



(ADITYA NAGAR, ADB ROAD, SURAMPALEM 533 437, E.G.Dt, Ph.9949876664, 08852-200005)

Website: www.acop.edu.in, Email: office@acop.edu.in

COURSE SYLLABUS

DURATION: 45Hrs

COURSE NAME: Hands on training of laboratory techniques in organic synthesis

Course objective:

1. To create awareness on instruments used in organic synthesis.
2. Purification and drying organic solvents and reagents by distillation in an inert and moisture-free atmosphere.
3. Micro-scale synthesis.
4. Running a reaction for a long time (also under reflux), Running a reaction at low temperature.
5. Synthesis under moisture- and air-free conditions.
6. Isolation of the product by distillation, crystallization and chromatography.

Course Outcome:

1. To get information about easy handling of instruments and reagents involved in organic synthesis.
2. To get knowledge about various techniques, preparation of various reagents and their applications involved in organic synthesis.
3. To know about Reaction conditions and precautions involved in various synthetic procedures.


DAY 1: 26-08-2022 (6 Hrs)

Module: 1

Using lab equipment and basic experimental techniques:

Using a Balance, Pipette, magnetic stirrer, folding fluted filter paper, rotary evaporators, vacuum and gravity filtration, extraction and usage of drying agents, Steam distillation, distillation, vacuum distillation crystallization, Recrystallization, evaporation, sublimation techniques, determination of melting point, molecular weight, density etc




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DAY 2: 02-09-2022 (6 Hrs)

DAY 3: 09-09-2022 (6Hrs)

Module: 2

Systematic qualitative analysis of unknown organic compounds like

1. Preliminary test: Color, odour, aliphatic/aromatic compounds, saturation and unsaturation, etc.
2. Detection of elements like Nitrogen, Sulphur and Halogen by Lassaigne's test
3. Solubility test
4. Functional group test like Phenols, Amides/ Urea, Carbohydrates, Amines, Carboxylic acids, Aldehydes and Ketones, Alcohols, Esters, Aromatic and Halogenated Hydrocarbons, Nitro compounds and Anilides.
5. Melting point/Boiling point of organic compounds
6. Identification of the unknown compound from the literature using melting point/ boiling point.
7. Preparation of the derivatives and confirmation of the unknown compound by melting point/ boiling point

DAY 4: 16-09-2022 (6Hrs)

Module: 3

Separation of components from mixture by chromatography

Thin layer chromatography, paper chromatography, column chromatography

DAY 5: 23-09-2022, (6Hrs)

DAY 6: 30-09-2022 (5Hrs)

Module: 4

Solvent Free Organic Synthesis:

1. Pinacol coupling reaction
2. Reformatsky reaction/Luche
3. Knoevenagel condensation
4. Dieckmann condensation
5. Corrole Synthesis
6. Knoevenagel condensation, 3-carboxycoumarin
7. 3-(ethoxycarbonyl)-4-hydroxy-5-(1-hydroxyalkyl)-2-isoxazoline-2-oxide
8. Biginelli reaction
9. Claisen reaction
10. Pechmann reaction.

DAY 7: 14-10-2022, (5Hrs)

DAY 8: 21-10-2022 (5Hrs)

Module: 5

Methods involved in organic compounds: Asymmetric synthesis, carbon-carbon bond-forming reactions, disconnection reactions, retrosynthesis.



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References:

1. J. C. Gilbert, S. F. Martin, "Experimental Organic Chemistry. A Miniscale and Microscale Approach", Thomson 2006
2. A. I. Vogel, A. R. Tatchell, B. S. Furnis, A. J. Hannaford, P. W. G. Smith "Vogel's Textbook of practical organic chemistry", Prentice Hall 1996.
3. Solvent-free Organic Synthesis by Koichi Tanaka (Copyright © 2009 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, ISBN: 978-3-527-32264-)
4. Practical organic chemistry. Cambridge. F. G. Mann. May 1936. B. C. Saunders.

Kaewana

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Website: www.acop.edu.in, Email: office@acop.edu.in

COURSE NAME: Value added Course on “Hands on Training of Laboratory Techniques In Organic Synthesis”.

LIST OF STUDENTS

S NO	REG NO	STUDENT NAME	SIGNATURE
1	193H1T0028	RAKESH KUMAR PANDIT	
2	193H1T0035	KANIKELLA ELIZABETH VERONICA	
3	203H1T0001	ALLA ESWARA SATYA SAI	
4	203H1T0002	BHAMIDIPATI KANAKA DURGA	
5	203H1T0003	BODDU MEENAKSHI	
6	203H1T0004	GADI PRIYANKA	
7	203H1T0005	GUMMALLA PREMA FLORENCE	
8	203H1T0006	KORLAKUNTA DEVA HARSHINI	
9	203H1T0007	KUDIPUDI VENKATA PRATIGNA	
10	203H1T0008	KUSUMA LALITHA MADHURI CHINTALA	
11	203H1T0009	LALAM SWARNAKUMARI	



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12	203H1T0010	MABUTO MICHELLE TANAKA	M. Mabuto
13	203H1T0011	MADDU GIRIJA BHAVANI	M. Girija Bhavani
14	203H1T0012	MAHITHA KANUMURI	K. Mahitha
15	203H1T0013	MAKIREDDI VENKATALAKSHMI	M. Venkatesh Babu
16	203H1T0014	MANGAM SRAVANI	M. Sravani
17	203H1T0015	MATTA PURNA RAJEENA	M. P. Rajeeva
18	203H1T0016	MD ZOYA ALVIRA	Zoya Alvira
19	203H1T0017	PITANI MANISHA	Manisha
20	203H1T0018	RAMAVATH SAI KUMAR NAIK	Naik
21	203H1T0019	SAMANA SURYA ISWARYAMBICA POOJA	S. S. I. Pooja
22	203H1T0020	SATHISETTI LAKSHMI PRAVEENA	S. Praveena
23	203H1T0022	SHREYASI MAITY	S. Maity
24	203H1T0023	SIVAKOTI YAMINI	
25	203H1T0024	PEDIREDLA VENKATA MANGA SINDHU VARSHINI	P. Sindhu

SIGNATURE OF COORDINATOR



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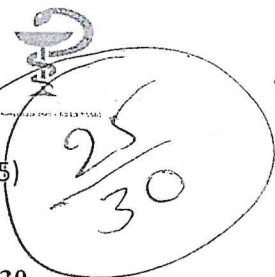


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COURSE NAME : Hands on training of laboratory techniques in organic synthesis

MARKS: 30

DATE : 22-10-2022

REG NO: 203H1T0004

1. Containers or laboratory glassware having chemicals in them should be properly labelled.

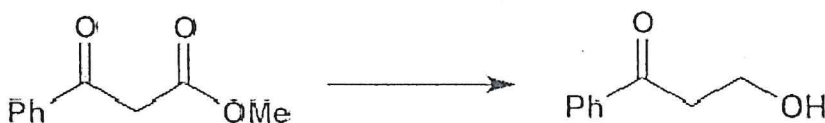
When should you place a label on a container?

(B)

- After adding a chemical to a container
 - Before adding a chemical to a container
 - after the container has been emptied
 - none.
2. If a substance decomposes when heated to its boiling point, the suitable method is (A)
- Simple distillation
 - vacuum
 - fractional distillation
 - crystallization
3. What is true about pure substance:
- (D)
- They have fixed exact boiling points
 - They have fixed exact melting points
 - They form one point on chromatogram.
 - All
4. One of the most common solvent used for recrystallization is (B)
- water
 - alcohol
 - benzene
 - hexane
5. Which of the following (to be converted by FGI) is not a good alternative target for the synthesis of a carboxylic acid, RCO_2H ? (D)

- a. ROH b. RCHO c. $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$ d. RCN

6. Which combination of reagents is appropriate for the following transformation? (D)



- a. 1) $\text{HOCH}_2\text{CH}_2\text{OH}$, H^+ ; 2) LiAlH_4 , Et_2O ; 3) H_3O^+



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- b. 1) NaBH_4 , MeOH ; 2) LiAlH_4 , Et_2O ; 3) H_3O^+
- c. 1) LiAlH_4 , Et_2O ; 2) H_3O^+
- d. NaBH_4 , MeOH
7. Which of the following statements best describes retrosynthesis? (B)
- a. The reaction conditions required to convert the product of a reaction back to the original starting materials
 - b. A strategy used to design a synthesis of a target molecule by working back from the target to simple starting materials
 - c. The design of a synthetic scheme using cheap, traditional reagents, rather than expensive modern reagents
 - d. The design of reaction conditions such that an equilibrium reaction is pushed towards the products rather than the starting materials.
8. Sublimation, dissolving, and filtration can only be carried out in (D)
- A. soluble-substances in solution
 - B. insoluble substances in liquids
 - C. liquid-liquid mixtures
 - D. solid-solid mixtures
9. The anhydrous agent used to remove water from ethanol distillate maybe (C)
- A. iodine
 - B. hydrocarbon
 - C. calcium chloride
 - D. naphthalene
10. Chromatography can be used to (C)
- A. form mixtures
 - B. change mixture compositions
 - C. separate mixtures into pure substances
 - D. none of above
11. The phase that never gains in sublimation is (A)



- A. solid
- B. liquid
- C. gas
- D. vapours

12. which of the following is a product formed in claisen condensation.

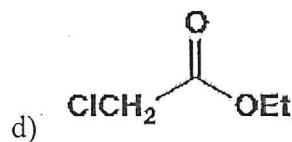
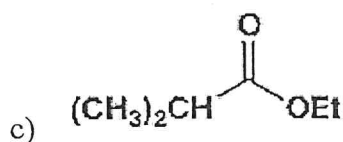
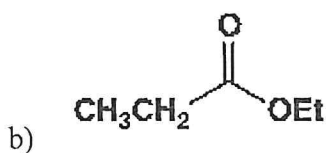
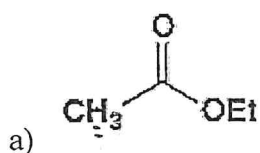
(B) α

a. β -ester b. β - ketone c. β -ketoester d. none

13. Which ester will not give a good yield of the claisen condensation

(A)

product with NaOEt in EtOH?



14. Condensation reaction is the reverse of which of the following reaction?

(C)

a) lock and key hypothesis b) oxidation c) hydrolysis

d) glycogen formation.

15. Which compound gets precipitated in the detection of carbon and hydrogen?

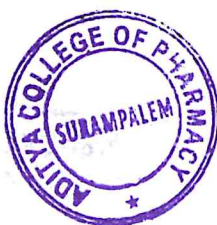
(A)

- a) Copper
- b) Carbon dioxide
- c) Calcium carbonate
- d) Copper sulphate

16. Identify the element that cannot be detected by Lassaigne's test.

(B)

a) Nitrogen b) Fluorine c) Sulfur d) Phosphorous



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17. What is the color of the precipitate obtained in the test for sulphur?

- a) White b) Black c) Violet d) Blue

(C)

18. Camphor is separated from common salt

(A)

- a) By sublimation (b) by distillation (c) By filtration (d) by boiling

19. Filter paper used in paper chromatography is

- a) What man No 1 paper (b) normal filter paper (c) both (a) & (b) (d) none

(C)

20. The process of changing a solid substance into liquid by heating is called

- a) Boiling (b) Melting (c) Freezing (d) none

(B)

21. The Product formed from pinacol coupling reaction is

- a) Diols b) aldehydes c) ketones d) amines

(A)

22. The starting material in reformatsky reaction is

- a) Aldehyde b) phenol c) amide d) amines

(D)

23. A corrole is

- a) An aromatic tetraPyrrole b) an aromatic tripyrrole
c) Pyrrolidine d) hexahydropyridine

(D)

24. The claisen condensation involves reaction between

- a) 2 ester molecules b) ester and alcohol c) ester and amine d) none.

(A)

25. Pechmann's condensation is used for synthesizing

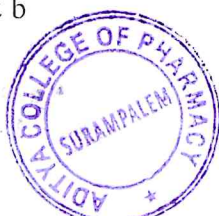
- a) coumarine b) alkaloids c) glycosides d) none

(A)

26. The catalyst used in Biginelli reaction is

- a) Acid b) base c) none d) a& b

(A)



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27. What is the advantage of vacuum filtration

(B)

a) Efficiency b) fast c) cost effective d) low power cost

28. What is the advantage of hot filtration?

(C)

a) To prevent virus during filtration

b) To prevent bacteria during filtration

c) Minimize crystal during filtration

d) None

29. Why is cotton wool used in filtration?

(A)

a) Remove fine Particles

b) Remove moderately coarse particles

c) Remove big particles

d) Remove uniform particles

30. Identify the filtration equipment.

(A)

a) Vacuum pump b) centrifuge c) dessicator d) muffle furnace



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(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

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Website: www.acop.edu.in

VALUE ADDED COURSE SUMMARY 2022-23

COURSE CODE AND NAME : HLOS and Hands on training of laboratory techniques in organic synthesis

COURSE DURATION : 45Hrs

BRANCH AND YEAR OFFERED: III PharmD

COURSE INSTRUCTORS : B.N.B.Vaidehi, Associate Professor

COURSE OUTCOME

Student would be able to get information about easy handling of instruments and reagents involved in organic synthesis, to get knowledge about various techniques, preparation of various reagents and their applications involved in organic synthesis, and to know about Reaction conditions and precautions involved in various synthetic procedures.

COURSE TYPE : Self framed course

ASSESSMENT MODE

ATTENDANCE : 45 Hours

NO.OF PARTICIPANTS : 25

SCHEME OF EXAM : MCQ Offline

DATE OF EXAM : 22-10-2022


Course coordinator





Principal

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CERTIFICATE OF COMPLETION



This is to certify that Mr./Ms
SATHISETTI LAKSHMI PRAVEENA

bearing roll number **203H1T0020** has successfully
completed the Value added course entitled
"Hands on training of laboratory techniques in organic synthesis"
held in Aditya College of Pharmacy, Surampalem from
26th August to 21st October, 2022.

N. Seetha Reddy

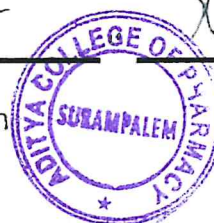
Chairman

N. Subash Kumar

Vice-Chairman

Helan Chauhan

Director &
Principal



Helan Chauhan

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ADITYA COLLEGE OF PHARMACY

**Aditya nagar, Surampalem,
Andhra Pradesh 533437**

**VALUE ADDED COURSE ON
GOOD LABORATORY PRACTICES FOR FAIL-SAFE AND
EFFECTIVE EXPERIMENTATION**

DURATION

12TH NOVEMBER

TO

17TH DECEMBER

2022

EVERY SATURDAY



Eligibility: II B.Pharmacy

**Students who are interested to join the value-added
course should contact the respective coordinator**

**Coordinator: T.Prashanthi
Asst. Professor,
Aditya College of Pharmacy**



**Resource Person: S.P.N.Kumar
Asso. Professor,
Aditya College of Pharmacy**

[Signature]
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All the students enrolled in this course will be provided with a certificate



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Website: www.acop.edu.in, Email: office@acop.edu.in

05-11-2022

CIRCULAR

This is to notify all the students of II B.PHARMACY that our college is providing a Value added course on **“GOOD LABORATORY PRACTICES FOR FAIL-SAFE AND EFFECTIVE EXPERIMENTATION”**. Interested students can contact the concerned co-coordinator for further details.

Coordinator: T. Prashanthi

Course duration: 12th November to 17th December, 2022 (Every Saturday)

T. Prashanthi
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Website: www.acop.edu.in, Email: office@acop.edu.in

COURSE SYLLABUS

DURATION: 36Hrs

Certificate course: A value added course on good laboratory practices for fail-safe and effective experimentation.

Course description:

This certificate value added course on good laboratory practices for fail-safe and effective experimentation, provides a collective knowledge on the significance of ensuring reliability and integrity of pharmaceuticals. Therefore, the course comprises the principles of GLP that is to be followed in a laboratory or organisation which deals with non-clinical safety tests.

Course objectives:

The course is built based on the following objectives:

1. Insights in the importance of GLP
2. Ability to understand the process and product requirements as per standards
3. Inculcate good manufacturing practices
4. A firm hand on the techniques of quality control
5. To practice safety standards and to evaluate future hazards

DAY 1: 12-11-2022 (6Hrs)

Module: 1

This module includes introduction to good laboratory practices. The student will learn about the significance of GLP in pharmaceuticals and the relevant fields of applications. This introductory session will also include about the GMP and quality management in good laboratory practices.

DAY 2: 19-11-2022 (6Hrs)

Module: 2

In this module, the student will learn about the general aspects of quality good services. The module tools of quality management along with SPC techniques. The student will also learn the importance of productivity. The module comprises of quality management principles along with ISO 9001 structure.

DAY 3: 26-11-2022 (6Hrs)



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Module: 3

The importance of GMP based regulatory and application aspects will be taught in this module. The student will learn about the concepts of equipment qualification and validation along with good documentation practices and quality risk management. The documentation practices will include standard operating procedures and standard testing procedures.

DAY 4: 03-12-2022 (6Hrs)

Module: 4

The lecture will include the day to day problems associated with quality science along with the methodologies and techniques used to deal with such problems to produce an effective quality control.

DAY 5: 10-12-2022 (6Hrs)

Module: 5

This introductory lecture will include about the significance of bio-safety. The student will learn about the various requirements of bio-safety standards, bio-safety levels and risk assessment.

DAY 6: 17-12-2022 (6Hrs)

Module: 6

In this session, the student will learn about the safety programs and acceptable risks. The module also includes government laws and regulations along with process safety management. Toxicological studies will also be taught based on various study models

References:

1. Pharmaceutical quality assurance vol. I &II BY Wagh Kaveri Raman et al., PV publications.
2. Qualitative pharma analysis by Jenkins, The Blakiston division, New York
3. How to practice GMP- A plan for total quality control by P.P. Sharma, Vandana publications, Agra



Principals

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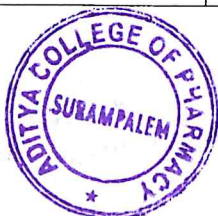
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COURSE NAME: Value added course on “Good laboratory practices for fail-safe and effective experimentation”

LIST OF STUDENTS

S NO	REG NO	STUDENT NAME	SIGNATURE
1	213H1R0001	AISHWARYA DANDUBOYINA	Aishy.
2	213H1R0002	AKONDI SAI LAHARI	Lahar
3	213H1R0003	BALANAGU DINESH VENKAT RAJU	CVL
4	213H1R0004	BOKKA DEEPTHI	B. Deepthi
5	213H1R0005	BONTHU SUPRIYA	CBT-B
6	213H1R0006	BURGULA LAKSHMI PRASAD	Lakshmi prasad. R
7	213H1R0007	CHEEPURUPALLI BHUVANESWARI	Ch. Bhuvaneshwari
8	213H1R0008	CHEPURI NAGA LAKSHMI	Ch. Naga lakshmi
9	213H1R0009	CHINTHA LOKESH KUMAR	Ch. Lokesh Kumar
10	213H1R0010	DASI LAKSHMI JAYASRI	D. Lakshmi Jayasri
11	213H1R0011	DEVAVARAPU VIJAYA LAKSHMI	D. Vijaya Lakshmi
12	213H1R0012	GANGIREDDY RAGA SUREKHA	G. Raga surekha.
13	213H1R0013	GEDDAM NAGA MAHITHA	G. Mahitha
14	213H1R0014	GUTTIMDEEVI AISWARYA	Aishwarya. G.
15	213H1R0015	JANGAM NOOKARATNAM	J. Nookaratnam
16	213H1R0016	JANIPATI PRASHANTHI	J. Prashanthi
17	213H1R0017	JOGI SAI SIVA	J. Sai siva
18	213H1R0018	KADALI HIMA SRI	K. Hima Sri



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19	213H1R0019	KARIMISETTI RAJESH	K. Rajesh
20	213H1R0020	KARINGI BHARATHI	K. Bharathi
21	213H1R0021	KATTA SWAPNA MADHURI	K. Swapna Madhuri
22	213H1R0022	KOLUTURI KAVYA SRI	Kavya Sri K
23	213H1R0023	KUCHIBHOTLA GAYATHRI SRI NAGA PRANATHI	K. G. S. N. Pranathi
24	213H1R0024	KUMPATLA UMA SRI LAKSHMI	K. Uma Sri
25	213H1R0025	LANKA SIDDU	L. Siddu
26	213H1R0026	MALLA RAVISYAMALA	Ravi syamala M.
27	213H1R0027	MEDA KIRAN KUMAR	Meda. Kiran Kumar
28	213H1R0028	MOGALLAPU SWAPNA	Swapna
29	213H1R0029	MOHAMMAD SHAHUL	MD. Shahul
30	213H1R0030	MOLLETI MOUNIKA LAKSHMI	M. Mounika
31	213H1R0031	NAGOTU SUDHARSHINI DURGA DEVI	Sudharshini N.
32	213H1R0032	NALLAPU SRAVANI	N. Sravani
33	213H1R0033	PALAGANI SATYA PRAVEEN	P. Praveen
34	213H1R0034	PILLI LAKSHMI SUREKHA	P. Lakshmi Surekha
35	213H1R0035	PITLA LAVANYA	P. Lavanya
36	213H1R0036	PRATHI JEMEEMA	P. Jemeema
37	213H1R0037	PUTTA NAGA DIVYA	P. Naga Divya
38	213H1R0038	RAMANAM SRI DURGA NAGA PAVANI	R. Naga Divya
39	213H1R0039	SADI VASANTHA LAKSHMI	S. Vasantha
40	213H1R0040	SAMBANGI SURENDRA	S. Surendra
41	213H1R0041	SANA SAI	Sana Sai
42	213H1R0042	SATHA PAVANI	S. Pavani
43	213H1R0043	SOORAJ KUMAR SURENDRA	S. Sooraj
44	213H1R0044	SUARNAM JHANSI LAKSHMI	S. Jhansi Lakshmi



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47	213H1R0047	VITTANALA DIVYA POOJITHA	V. Divya poojitha
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51	213H1R0051	ABHISHEK MAHATO	Abhishek mahato
52	213H1R0052	ALLU DIVYA	A. Divya
53	213H1R0053	AMAN KUMAR RAWANI	A. Kumar Rawani
54	213H1R0054	NEELIMA BIKKINA	N. Bikkina
55	213H1R0056	ANADI DAS	A. Das
56	213H1R0057	ANISH SHARMA	Anish sharma
57	213H1R0058	ANKUR DAS	A. Ankur Das
58	213H1R0059	AVIJIT NAYEK	Avijit Nayek
59	213H1R0060	AVINASH KUNDRAL	Avinash kundral
60	213H1R0061	BISHAL SAH	B. Sah
61	213H1R0062	CHAKKA NAGA LAKSHMI MANGATHAYARU	Ch. N. L. M. Thayaru
62	213H1R0063	CHITTIMENU MAHALAKSHMI VIDYA	Ch. Mahalakshmi vidya
63	213H1R0064	DINESH MURAU	D. Murau
64	213H1R0065	DWIPJOY MALAKAR	D. Malakar
65	213H1R0066	GEDDAM SANJEEV KUMAR	G. Sanjeev Kumar
66	213H1R0068	JUNAID AHMAD BHAT	J. Ahmad Bhat
67	213H1R0069	KAKARLAPUDI VENKATA SAI MANIKANTA VARMA	K. V. S. Varma
68	213H1R0070	KANCHARLA LAHARI	K. Lahari
69	213H1R0072	MA. AMAN ANSARI	M. Aman Ansari
70	213H1R0073	MD AZEEZ RAIN	Md. Azeez Rain
71	213H1R0074	MD IRSHAD	Md. Irshad



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74	213H1R0077	NAKAJJA LETICIA	Nakajja
75	213H1R0078	PASUPULETI VENKATA SATYA PRASAD	P. Satya Prasad
76	213H1R0079	PILLI NEERAJA	Neeraja
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79	213H1R0082	RITESH KUMAR PATHAK	Ritesh
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81	213H1R0084	SANIPINI RAHITYA	S. Rahitya
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88	213H1R0091	SUBHANKAR ROY	Subhankar Roy
89	213H1R0092	SUTHAPALLI THARUNA SREE	S. Tharuna Sree
90	213H1R0093	GURRALA ESTHER HEPHIZIBAH	G. Esther Hephzibah
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92	213H1R0095	YALLA DIVYA SINDHU	Y. D. Sindhu
93	213H1R0096	GURRAM GANGABABU	G. gangababu
94	213H1R0097	TIPPALA GAMYA DEVI	T. Gamya Devi
95	213H1R0098	VANGA RAMA KRANTHI	Kranthi Vanga
96	213H1R0099	KAPPALA SURYA LAKSHMI GAYATHRI DEVI	K. Gayathri



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97	213H1R00A0	THANDROTU SUSRITHA APARNA VEERAVALLI DEVI	<i>T. Susrita</i> <i>T.S.A.V.V. Devi</i>
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T. Pravanthi
COURSE COORDINATOR



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COURSE NAME : Good Laboratory Practices For Fail-Safe And Effective Experimentation

MARKS: 30

DATE: 19-12-2022

REG NO: 213H1R0013

1. Generally key posts should be occupied by ____ personnel.

[B] ✓

a) Part time

b) Full time

c) Both A&B

d) None of the above

2. Which department is responsible for evaluation of batch records?

[A] ✓

a) QA

b) QC

c) Both A&B

d) None of the above

3. The finished products containing active ingredients should comply with ____ composition of the marketing authorization.

[C] ✓

a) Qualitative

b) Quantitative

c) Both A&B

d) None of the above

4. The scope of sanitation and hygiene covers ____

[D] ✓

a) Personnel

b) Premises

c) Equipment



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d) All the above

5. The reserve sample should contain at least ____ the quantity needed for all tests required to determine the sterility and pyrogen testing.

[A] ✓

a) Twice

b) Thrice

c) Similar

d) None of these

6. During examination and testing of samples at least ____ test should be conducted on each lot of component drug product to verify identity.

[A] ✓

a) 2

b) 3

c) 1

d) None of the above

7. A high level of personal hygiene should be followed and observed by all those concerned with ____ processes.

[A] ✓

a) Manufacturing

b) Transporting

c) Warehousing

d) None of the above

8. To approve or reject the starting materials, packaging materials, and intermediate, bulk and finished products is responsibility of which department?

[B] ✓

a) QC

b) QA

c) Production



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d) All of the above

9. Which of the following department is responsible for quality monitoring and audit?

[B]

a) QC

b) QA

c) Production

d) All of the above

10. During sampling and testing in – process materials should be tested for which of the following?

[D]

a) Identity

b) Strength

c) Purity

d) All of the above

11. GMP ensures which of the following parameters?

[C]

a) Quality

b) Safety

c) Efficacy

d) All of the above

12. To identify and prepare the necessary SOPs related to the control of quality is a responsibility of _____ department.

[B]

a) Production

b) QA

c) QC

d) None of the above



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13. QC activities focus on identifying _____ in actual product produced

[C] ✓

a) Defects

b) Strength

c) Both A&B

d) None of the above

14. According to WHO QC is the part of _____

[C] ✓

a) GLP

b) GCP

c) GMP

d) None of the above

15. According to dictionary, quality is the degree of _____.

[A] ✓

a) Excellence

b) Agreement

c) Greatness

d) None of the above

16. Beers law is related with _____

[A] ✓

a) Concentration

b) Thickness of medium

c) Wavelength of incident radiation

d) Wavelength of transmitted radiation a

17. Deciding to collect a sample from a population is often:

[B] ✓

a) A personal decision

b) An economical decision



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c) A risky decision

d) A team decision b

18. We use _____ to calculate the estimate of the process standard deviation.

[A] ✓

a) Sample standard deviation

b) Sample average

c) Sample variance

d) Sample mean a

19. The packaging that envelops the product and is in direct contact with the content is called _____

[A] ✓

a) Primary packaging

b) Secondary packaging

c) Tertiary packaging

d) None of the above a

20. Accelerated stability testing is done to:

[A] ✓

a) Predict shelf life of the formulation

b) Predict dissociation constant

c) Predict diffusion constant

d) Determine activation energy a

21. Stability testing is done to:

[A] ✓

a) Determine shelf life of product

b) Determine the components used for packaging

c) Get information at pre-formulation stage

d) All of the above



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22. The desire to maintain a safe laboratory environment for all begins with _____? [B] X

- a) Prevention
- b) Ubiquity
- c) Microbiology
- d) Accidents

23. When a chemical splashes in the eye rinse for _____?

[C] ✓

- a) 10 seconds
- b) 30 seconds
- c) 5 minutes
- d) 15 minutes

24. Which of the following type(s) of Personal Protective Equipment (PPE) is frequently used? [D] ✓

- a) Safety glasses
- b) Lab coats
- c) Gloves
- d) All of the above

25. Chemical, reagents or broth cultures should be pipette by _____?

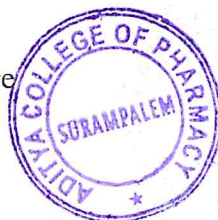
[C] ✓

- a) Mouth
- b) Ear
- c) Pipette
- d) Nose

26. Good work practices include,

[C] ✓

- a) Smelling and tasting chemicals
- b) Not washing hands before and after lab
- c) Confining long hair and loose clothing
- d) Using damaged equipment and glassware



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27. What is the name of the procedure performed under sterile conditions to eliminate contamination in hopes to obtain a pure culture of one type of microorganism?

[B] ✓

- a) Sterilization technique
- b) Aseptic technique
- c) Disinfectant technique
- d) Pathogen technique

28. After a biohazard spill is covered with paper towels and disinfectant solution, it must sit for _____ minutes?

[A] ✓

- a) 5
- b) 30
- c) 60
- d) 20

29. _____ is needed as a source of nutrient for the growth and reproduction of microbes. [D] ✓

- a) Pathogens
- b) Bacteria
- c) Reagents
- d) Media

30. To prevent the contamination of microscopes and surrounding areas disinfect/clean used slides, prepared by student, with:

[A] ✓

- a) 70% ethanol and lens paper
- b) 5% methylene blue and lens paper
- c) Acetone and lens paper
- d) Water and lens paper



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VALUE ADDED COURSE SUMMARY 2022-23

COURSE CODE AND NAME : VAGMP and Good laboratory practices for fail-safe and effective experimentation

COURSE DURATION : 36Hrs

BRANCH AND YEAR OFFERED: II B.Pharmacy

COURSE INSTRUCTORS : K.Venkateswarulu, Asso.Professor

COURSE OUTCOME

The course is built based on the following objectives:

1. Insights in the importance of GLP
2. Ability to understand the process and product requirements as per standards
3. Inculcate good manufacturing practices
4. A firm hand on the techniques of quality control
5. To practice safety standards and to evaluate future hazards

COURSE TYPE : Self framed course

ASSESSMENT MODE

ATTENDANCE : 36 Hours

NO.OF PARTICIPANTS : 97

SCHEME OF EXAM : MCQ Offline

DATE OF EXAM : 19-12-2022

T. Prasanth
Course coordinator



Dr. Venkateswarulu
Principal

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CERTIFICATE



This is to certify that Mr./Ms.

CHINTHA LOKESH KUMAR

bearing Reg no. 213H1R0009 has Successfully completed the Value added course
entitled, "Good laboratory Practices for fail-safe and effective experimentation"
conducted from 12th November to 17th December ,2022 (Every Saturday)
at Aditya College of Pharmacy

N. Sate Reddy
Chairman

N. S. Reddy
Vice-Chairman

Xelani Chauran
Principal



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Organizing

VALUE ADDED COURSE ON



IMPROVING MENTAL HEALTH AND SUICIDAL PREVENTION

DURATION

21st January to 25th February 2023 (every saturday)

Co-ordinator

K.Gnaneswari
Asst.Professor

Aditya college of Pharmacy

Resource Person & convenor

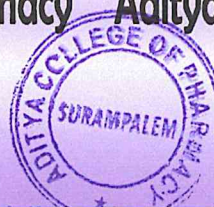
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Principal

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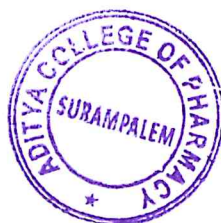
10-01-2023

CIRCULAR

This is to inform all **I B.PHARMACY & I PHARM D** students that our college will be offering a Value Added Course on "**IMPROVING MENTAL HEALTH AND SUICIDAL PREVENTION**" on the dates listed below. Students interested to enrolling in the value added course should contact the appropriate coordinator.

Coordinator: **K.Gnaneswari**

Timings: **21st January 2023 to 25th February, 2023** (Every Saturday)



K. Gnaneswari

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COURSE SYLLABUS

DURATION: 30Hrs

COURSE NAME: "IMPROVING MENTAL HEALTH AND SUICIDAL PREVENTION"

Course objective:

- What mental health is, and the impact of stress on mental health
- Identify and explain contributing factors to suicide and poor mental health
- Strategies to increase mental fitness
- Understand why self-harm may be used as a coping strategy
- Recognise risk factors for mental health crisis and suicidality
- Understand the types of questions you can ask a person who may be at risk of suicide

Course outcome:

Student is able to improve the mental health condition and able to increase mental fitness, able to learnt the prevention of suicidal thoughts in poor mental health

DAY 1: 21-01-2023 (6Hrs)

MODULE I:

Mental fitness

- Explain what mental health is
- Identify and explain contributing factors to suicide and poor mental health
- Understand the impact of stress of mental health
- Understand your own mental fitness

DAY 2: 28-01-2023 (6Hrs)

MODULE II:

Strategies to increase mental fitness

- Explain why we worry
- Identify and explain contributing factors to negative thinking
- Understand how to apply the ABC model



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DAY 3: 04-02-2023 (6Hrs)

MODULE III:

Non-suicidal self-injury (NSSI)

- Describe the difference between deliberate self-harm and Non-Suicidal Self-Injury (NSSI)
- Understand why NSSI may be used as a coping strategy
- Describe alternative strategies for regulation of emotions
- Learn to use a mindfulness-based task

DAY 4: 11-02-2023 (6Hrs)

MODULE IV:

Suicidal behaviour in young adults (SBYA)

- Explain the risk factors often associated with suicidal behaviours in young adults
- Understand the types of questions you can ask a person who may be at risk of suicide
- Learn to use a mindfulness-based task

DAY 5: 25-02-2023 (6Hrs)

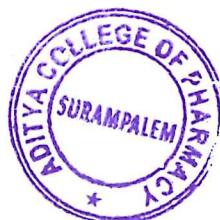
MODULE V

Interventions in SBYA

- Explain general methods of suicide prevention

References

1. <https://www.edx.org/course/talk-to-me-improving-mental-health>
2. Alarcón RD. Mental health and mental health care in Latin America. World Psychiatry 2003;2:54-6
3. World Health Organization. Multisite Intervention Study on Suicide Behaviour – SUPRE-MISS. Geneva: World Health Organization, 2002.
4. Krug EG, Dahlberg LL, Mercy JA et al (eds). World report on violence and health. Geneva: World Health Organization, 2002.
5. <https://www.sciencedirect.com/science/article/abs/pii/S2215036618300579>



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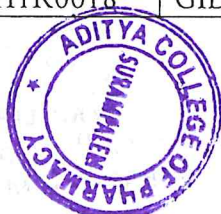
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COURSE NAME: Value added Course on "IMPROVING MENTAL HEALTH AND SUICIDAL PREVENTION"

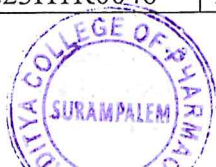
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2	223H1R0002	AGURU TEJASWINI	A. Tejaswini
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4	223H1R0004	ASHA DEEPTHI GURUGUBILLI	G. Asha Deepthi
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7	223H1R0007	CHIKKALA BHAVANI	Ch. Bhavani
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16	223H1R0016	GANNI MAHA DURGA BHAVANI	G. M. D. Bhavani
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18	223H1R0018	GIDLA SATYA EUNICE	G. Eunice



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42	223H1R0042	PADALA VIJAYA DURGA	P.V. Durga
43	223H1R0043	PAKKURTHI PRAKASH	P. Prakash
44	223H1R0044	PANGA PUSHPALATHA	P. Pushpalatha
45	223H1R0045	PERUMALLAKOVELA RAMA SIVA GANGA BHAVANI	P. Bhavani
46	223H1R0046	PILLI BHARATHI	P. Bharathi

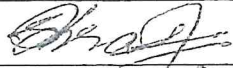



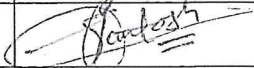


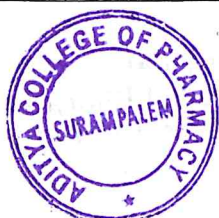
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48	223H1R0048	PILLWAR SRUTHI	P. Sruthi
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53	223H1R0053	SADHANALA CHAKRADHAR	S. Chakradhar
54	223H1R0054	SETTI RAMA	S. Rama
55	223H1R0055	SHEIK SOFIA BEGUM	Sheik. Sofia Begum
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63	223H1R0063	ANISSETTI VAITREYA	A. Vaitreya
64	223H1R0064	ATANU KUMAR DE	Atanu Kumar De
65	223H1R0065	BAILAPUDI NIHARIKA	B. Niharika
66	223H1R0066	BIBEK KUMAR SAH	B. K. Sah
67	223H1R0067	LOHITHA SAI VARSHITH BOKKA	L. S. Varshith
68	223H1R0068	BRISTI DEY	Bristi Dey
69	223H1R0069	BUSALA GOWTHAMI	B. Gowthami
70	223H1R0070	SIDDA LAKSHMI GOWRI JAHNAVI	S. L. G. Jahnavi
71	223H1R0071	CHANDAN KUMAR SHAH	Chandan
72	223H1R0072	DHIRAJ SAH	D. Sah
73	223H1R0073	DHIRENDRA KAPAR	Dhirendra
74	223H1R0074	HAFAEEZ ULLAH	Hafeez



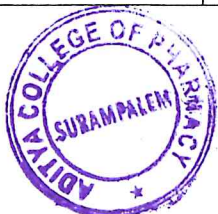
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75	223H1R0075	IBRAR MUSALMAN	
76	223H1R0076	ITHI SUVARNA KEERTHI	P. Suvarna Keerthi
77	223H1R0077	JENNA KHUSHIPRIYA	J. Khushi priya
78	223H1R0078	K KISHAN KUMAR	K. Kishan
79	223H1R0079	KALLA JYOTHI	K. Jyothi
80	223H1R0080	KATNAM KRISHNA PRAVEEN	
81	223H1R0081	KARRI MAHITHA REDDY	K. Mahitha Reddy
82	223H1R0083	KHULAKPAM SHAKIRA	Kh. Shakira
83	223H1R0084	KOMANDURI E LAKSHMI SAMYUKTHA	K.E.L. Samyuktha
84	223H1R0085	KRISHMA GUBBALA	G. Krishma
85	223H1R0086	KRISHNA KUMAR MEHTA	
86	223H1R0087	MAREEDU VYSHNAVI	M. Vyshnavi
87	223H1R0088	MD HAFIJUDDIN	Md. Hafijuddin
88	223H1R0089	MOHAMMAD ANAS	Md Anas
89	223H1R0090	PALLA RANI	P. Rani
90	223H1R0091	PILLA SANTHOSHI	P. Santhoshi
91	223H1R0092	PREMANGSHU PRAMANIK	P. Pramanik
92	223H1R0093	GANDHAM SATYA DEVI	G. Satya Devi
93	223H1R0094	TUPATI DIVYA SAI RAMA LAKSHMI	T. Divya Sai Rama Lakshmi
94	223H1R0095	RANI ISWARYA INDURTI	S. Rani Iswarya
95	223H1R0096	RANJIDA KHATUN	Ranjida
96	223H1R0097	RAVI PANDEY	
97	223H1R0098	RIYA KUMARI MISHRA	Riya
98	223H1R0099	RYALI VENKATA LAKSHMI SRIJA	Sreja
99	223H1R00A0	SANTOSH KUMAR SHAH	
100	223H1R00A1	SAYYAD NEHA	Sd. Neha
101	223H1R00A2	SODAGAM MEGHANA	S. Meghana
102	223H1R00A3	SOMASHRI MAJI	S. Maji



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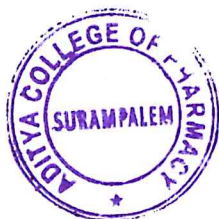
103	223H1R00A4	SOUMEN MAJI	S. Maji
104	223H1R00A5	CHANDAKA KASI ANNAPURNA	Ch. Annapurna
105	223H1R00A6	SUMIT KUSHWAHA	Sumit
106	223H1R00A7	TAMPAKMAYUM SANJANA	Th. Sanjana
107	223H1R00A8	TANU PRIYA	Tanu Priya
108	223H1R00A9	VAJJA DHANALAKSHMI	V. Dhanalakshmi
109	223H1R00B0	VALLABHANI SINDHU SATYA SRI PRIYA DURGA	V. Sindhu
110	223H1R00B1	DUNABOYINA KAVYANJALI	D. Kavay
111	223H1R00B2	VASAMSETTI MANIKANTA SWAMY	V. Manikanta Swamy
112	223H1R00B3	VILLURI TINNU	V. Tinnu
113	223H1R00B4	VINNA MEHER GAYATRI DEVI	V. meher gayatri devi...
114	223H1R00B5	YALLA GANGABHAVANI	Y. Ganga bhavani
115	223H1R00B6	YAMIJALA SAI GAYATHRI	Y. Sai Gayathri
116	223H1R00B7	YARRAM SURYA PRAKASH REDDY	Y. Surya Prakash Reddy
117	223H1R00B8	YELUBANDI VINAY	Y. Vinay
118	223H1R00B9	YELURI ANUSHA	Y. Anusha
119	223H1T0001	ABHINAV KUMAR	Abhinav Kumar
120	223H1T0002	ADAPA SAILA BHANU	A. Saila
121	223H1T0003	ALAM KHAN CHESAM	A. Alam Khan
122	223H1T0004	ARBUD DE	A. Arbud
123	223H1T0005	ARNAB GIRI	Ar. A.
124	223H1T0006	BABY WOSSEN JUNIAS KOFFI	B. Wossen
125	223H1T0007	BODDEDA VAISHNAVI	B. Vaishnavi
126	223H1T0008	BOKKA SATYA SRAVYASREE	B. Satya Sravya Sree
127	223H1T0009	BONALA CHAITANYA KRISHNA	B. Chaitanya Krishna
128	223H1T0010	BUYAMAYUM ABDUR RAHAMAN	B. Rahman
129	223H1T0011	DEVAVARAPU SHANMUKHI	D. Shanmukhi
130	223H1T0012	DIVYANSH CHHETRY	Divyansh



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131	223H1T0013	DULLA GAYATHRI	<i>G. Gayathri</i>
132	223H1T0014	LAKSHYA GAYATHRI REDDY KARRI	<i>K. Gayathri Reddy</i>
133	223H1T0015	LOYISO ALEXANDRA NDIWENI	<i>AL</i>
134	223H1T0016	MANDALA MAHI GANGOTHRI	<i>M. Mahi</i>
135	223H1T0017	MEDI SUSEELA	<i>M. Suseela</i>
136	223H1T0018	MEDISETTI NAGENDRA	<i>M. Nagendra</i>
137	223H1T0019	MOHAMMAD JAKIA RASHEEDA	<i>M.D.J. Rasheeda</i>
138	223H1T0020	MONDI KEERTHANA	<i>M. Keerthana</i>
139	223H1T0021	MPHOKUHLE ZINHLE STHANDWA MNKANDLA	<i>Zinhle</i>
140	223H1T0022	MUDAVATH YASWANTH NAIK	<i>M. Yashwanth</i>
141	223H1T0023	MUKKAMALLA KAVYA	<i>M. Kavya Reddy</i>
142	223H1T0024	PODILI BHAGYA LAKSHMI	<i>P. Bhagyalakshmi</i>
143	223H1T0025	RAMAGIRI ABHIGNA	<i>R. Abhigna</i>
144	223H1T0026	RANDHI CHATURYA	<i>R. Chaturya</i>
145	223H1T0027	SEELAM GEETHA PAVANI	<i>S. Geetha Pavani</i>
146	223H1T0028	SHAIK GAFUR	<i>Sh. Gafur</i>
147	223H1T0029	SHUBHADEEP PANDA	<i>S. Panda</i>
148	223H1T0030	THALLAPALLI RAJYALAKSHMI	<i>Rajyalakshmi.T</i>
149	223H1T0031	TUMMALAPALLI VEERA VENKATA GAYATHRI DEVI	<i>J.V.V. Gayathri Devi</i>
150	223H1T0032	RAJAGOPAL MUTHYA SATYA VENKATA SRI GANESH	<i>R. Ganesh</i>
151	223H1T0033	BUDITHI NOWSHIYA	<i>B. Nowshiya</i>

B. Ganesh



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Approved by PCI, Recognised by UGC (Section 2f)

ISO 90001:2015 Certified Institution

(ADITYA NAGAR, ADB ROAD, SURAMPALEM 533 437, E.G.Dt, Ph.9949876664, 08852-200005)

Website: www.acop.edu.in, Email: office@acop.edu.in

27
30

COURSE NAME: Value added course on improving mental health and suicidal prevention

MARKS: 30 M

DATE: 27-02-2023

REG NO: 223H1R0009

1. What is the primary focus of mental health development?

(B)

A) Diagnosis and medication B) Promoting well-being and resilience C) Identifying mental illnesses D) Hospitalization and treatment

2. What is the most common mental health disorder globally?

(C)

A) Bipolar disorder B) Schizophrenia C) Depression D) Obsessive-Compulsive Disorder

3. Which of the following is NOT a common risk factor for suicide?

(B)

A) Substance abuse B) Social support C) Previous suicide attempts D) Family history of suicide

4. Which age group has the highest risk for suicide?

(B)

A) Adolescents and young adults B) Middle-aged individuals C) Elderly individuals D) Children under 12

5. What does the acronym "QPR" stand for in the context of suicide prevention?

(C)

A) Quick, Practical, Response B) Question, Persuade, Refer C) Qualify, Prevent, React D) Quell, Protect, Respond

6. Which is a protective factor for suicide?

(C)

A) Access to lethal means B) Isolation and loneliness C) Connectedness and support D) Impulsive behavior

7. Which organization is known for the promotion of mental health and the prevention of mental disorders worldwide?

(A)

A) WHO (World Health Organization) B) UNICEF (United Nations Children's Fund) C) CDC (Centers for Disease Control and Prevention) D) WHO (World Humanitarian Organization)

8. Which neurotransmitter is often associated with mood regulation and is targeted in the treatment of depression?

(A)



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A) Serotonin B) Dopamine C) Acetylcholine D) GABA (Gamma-Aminobutyric Acid)

9. What is the primary goal of psychoeducation in mental health development? (B) ✓

A) Treating mental disorders B) Reducing stigma C) Promoting medication use D) Isolating individuals with mental illness

10. Which is a common warning sign that someone may be at risk of suicide? (B) ✓

A) Improved mood and behavior B) Giving away personal belongings C) Engaging in healthy activities D) Seeking professional help

11. Which psychological theory emphasizes the role of unconscious conflicts and early childhood experiences in shaping mental health? (C) ✓

A) Humanistic psychology B) Behavioral psychology C) Psychodynamic psychology D) Cognitive psychology

12. What does the acronym "CBT" stand for in mental health treatment? (A) ✓

A) Cognitive Behavioral Therapy B) Comprehensive Behavioral Treatment C) Clinical Biomedical Testing D) Creative Brain Training

13. Which mental health disorder is characterized by alternating periods of mania and depression?

(B) ✓

A) Generalized Anxiety Disorder B) Bipolar Disorder C) Borderline Personality Disorder D) Obsessive-Compulsive Disorder

14. What is the primary goal of gatekeeper training in suicide prevention? (C) ✓

A) Teaching gatekeepers to take on the role of mental health professionals B) Identifying individuals at risk and connecting them to help C) Locking people in crisis out of dangerous places D) Providing crisis intervention through phone hotlines

15. Which demographic group has the highest suicide rate in the United States? (A) ✓

A) White males B) African American females C) Hispanic males D) Asian American females

16. In the context of suicide prevention, what does the acronym "ASIST" stand for? (A) ✓

A) Advanced Suicide Intervention Strategies and Training B) Alliance for Suicide Intervention and Support Teams C) American Society for the Improvement of Suicide Tactics D) Association of Suicide Information and Support Training

17. What is the first step in helping someone who may be suicidal? (C) ✓

A) Providing immediate solutions to their problems B) Offering a shoulder to cry on C) Asking if they are thinking about suicide D) Telling them to "snap out of it"

18. Which mental health intervention involves a combination of medication and talk therapy?

(D) ✓



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A) Medication only B) Psychoeducation C) Cognitive Behavioral Therapy D) Integrated treatment

19. What is the acronym "SAMHSA" in the context of mental health and suicide prevention?

(A) ✓

A) Substance Abuse and Mental Health Services Administration B) Suicide Awareness and Mental Health Support Association C) Stress and Anxiety Management for Health and Safety Advocates D) Support and Awareness for Mental Health and Substance Abuse

20. What is the common term for the fear of being in situations where escape might be difficult or help unavailable in the event of a panic attack?

(B) ✓

A) Claustrophobia B) Agoraphobia C) Acrophobia D) Xenophobia

21. Which mental health disorder is characterized by persistent, excessive worry and anxiety about a number of different things?

(C) ✓

A) Obsessive-Compulsive Disorder B) Panic Disorder C) Generalized Anxiety Disorder D) Schizophrenia

22. What is the main focus of the "Zero Suicide" approach in healthcare settings?

(B) ✓

A) Encouraging more people to attempt suicide B) Reducing suicide rates to zero C) Providing free mental health services D) Promoting healthy lifestyles

23. Which of the following is not a common method for self-harm or suicide?

(C) ✓

A) Overdosing on medications B) Hanging C) Physical exercise D) Cutting

24. What is the acronym "PTSD" stand for in mental health?

(B) ✓

A) Personal Time and Stress Disorder B) Post-Traumatic Stress Disorder C) Perseverance Through Stress and Depression D) Psychiatric Treatment and Stress Development

25. What is the primary goal of crisis helplines in suicide prevention?

(C) ✓

A) Providing therapy sessions over the phone B) Offering financial support to individuals in crisis C) Offering immediate emotional support and referrals D) Providing entertainment and distraction

26. Which of the following is a known risk factor for developing mental health disorders?

(C) ✓

A) Strong social support B) Regular physical activity C) Substance abuse D) Optimistic outlook

27. Which of the following is an example of a protective factor for mental health and suicide prevention?

(D) ✓

A) Access to firearms B) Family history of mental illness C) Healthy coping skills D) Social isolation



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28. What is the primary goal of a safety plan in suicide prevention?

(C) ✓

A) Restricting access to lethal means B) Keeping the individual isolated from others C) Creating a roadmap for staying safe during a crisis D) Reducing social support

29. Which mental health intervention focuses on changing maladaptive thought patterns and behaviors?

(C) ✓

A) Medication management B) Psychoeducation C) Dialectical Behavior Therapy D) Mindfulness meditation

30. What does the acronym "NAMI" stand for in the context of mental health and suicide prevention?

(A) ✓

A) National Alliance on Mental Illness B) National Association for Mental Improvement C) Network for Advocacy and Mental Independence D) National Authority for Mental Intervention



Xavi
Principal
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Approved by AICTE & PCI - NEW DELHI, Affiliated to JNTUK KAKINADA
(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

Ph: 99498 76664
Email: office@acop.edu.in
Website: www.acop.edu.in

VALUE ADDED COURSE SUMMARY 2022-23

COURSE CODE AND NAME : IMSP and Improving Mental Health and Suicidal Prevention
COURSE DURATION : 30Hrs
BRANCH AND YEAR OFFERED: I B.Pharmacy & I Pharm D
COURSE INSTRUCTORS : Dr. K .Ravi Shankar, Principal

COURSE OUTCOME

Students would be able ensure availability of minimum mental health care for all in the future, to the most underprivileged sections of society and Increase knowledge of the factors that offer protection from suicidal behaviours and that promote wellness and recovery.

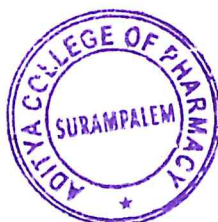
COURSE TYPE : Self framed course

ASSESSMENT MODE

ATTENDANCE : 30 Hours
NO.OF PARTICIPANTS : 151
SCHEME OF EXAM : MCQ Offline
DATE OF EXAM : 27-02-2023

K. Gnaneshwari
Course coordinator

Dr. Ravi Shankar
Principal

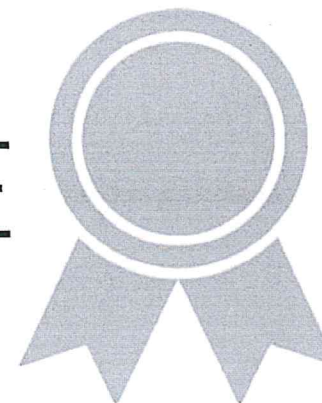


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CERTIFICATE OF COMPLETION



This is to certify that Mr./Ms

GIDLA SATYA EUNICE

bearing roll number 223H1R0018 has successfully
completed the Value added course entitled
"Improving mental health and suicidal prevention"
held in Aditya College of Pharmacy, Surampalem from
21st January 2023 to 25th February, 2023 .

N. Sankar Reddy

Chairman

N. Sankar Reddy

Vice-Chairman

K. Anish Kumar

Director
Principal



K. Anish Kumar

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(ADITYA NAGAR, ADB ROAD, SURAMPALEM 533 437, E.G.Dt, Ph.9949876664)

VALUE ADDED COURSE ON HANDLING OF ANIMALS

Eligibility: IV PHARM D

Students who are interested to join the value-added course should contact the respective coordinator

Coordinator: K.Shruthi
Asst. Professor,
Aditya College of Pharmacy

Resource person: Dr.K.Ravishankar
Principal,
Aditya College of Pharmacy

DURATION

03RD FEBRUARY TO 03RD MARCH 2023 (EVERY FRIDAY)



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25-01-2023

CIRCULAR

This is to inform all **IV PHARM D** students that our college will be offering a value added course on “**Handling of Animals**” on the dates listed below. Students interested in enrolling in this course should contact the appropriate coordinator.

Coordinator: **K.sruthi**

Timings: **03rd February to 03rd March, 2023** (Every Friday)



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Website: www.acop.edu.in, Email: office@acop.edu.in

COURSE SYLLABUS

DURATION: 30Hrs

COURSE NAME: Certificate course on Handling of Animals

Course Objectives:

- To provide basic knowledge on handling of laboratory Animals like Mice, Rats, Rabbits and Guinea pigs.
- To have a proper knowledge on the legislations, Ethics, and about the rules & regulations of CPCSEA.
- Training also provides the information about IAEC approvals while conducting research works on laboratory animals.

Course outcomes:

Upon successful completion, students will have the knowledge and skills to:

1. To understand the species, specific biology of laboratory Animals.
2. Maintenance of laboratory animals with proper diet and facilities.
3. Environmental factors that may influence animal Experiments.
4. Euthanasia, Anaesthesia, & Analgesia for minor & Long-Lasting procedures.

DAY 1: 03-02-2023, 6Hrs

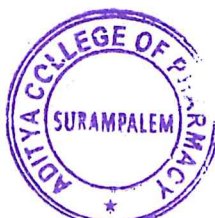
Module 1:

Appropriate methods & principles of handling animals & describe common techniques procedures including administration and sampling techniques. Describing the basic biology of the relevant animal species, including basic anatomy, physiology, reproduction & behaviour, & recognise the importance of attending to biological & behavioural needs.

DAY 2: 10-02-2023, 6Hrs

Module 2:

Various routes of administration & to describe about the importance providing of an enriched environment to laboratory animals & also monitoring of appropriate health status for the animals.



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DAY 3: 17-02-2023, 6Hrs

Module 3:

Describe abnormal behaviour & signs of discomfort, pain, suffering or distress & also monitor the microbiological health of laboratory animals.

DAY 4: 24-02-2023, 6Hrs

Module 4:

Listing of potential human health hazards associated with contact with laboratory animals & describe how these can be prevented or reduced.

DAY 5: 03-03-2023, 6Hrs

Module 5:

Define the term “Humane killing” & list appropriate Euthanasia, methods for the relevant animal species & recognise the choice of Euthanasia method may influence the scientific outcomes.

References:

1. Handbook of Laboratory Animal Anesthesia and Pain Management: Rodents. 1st Edition.
2. Animal handling techniques and protocol development strategies, *Bhushan P Hatwar, Arunabha Mallik*.
3. Pharmacology: A Comprehensive Approach by Ravi Shankar K, G.V.N Kiranmayee
Pharma Med Press, ISBN: 9789383635566.
4. Animal Care and Resource Centre (ACRC) - IAEC project proposal documents. [<https://www.ncbs.res.in/research-facilities/acrc-IAEC>]



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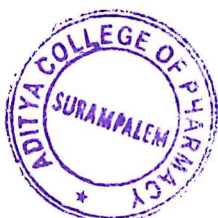
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COURSE NAME: VALUE ADDED COURSE ON HANDLING OF ANIMALS

LIST OF STUDENTS

S NO	REG NO	STUDENT NAME	SIGNATURE
1	183H1T0010	MAHE NAZSHAYEED	<i>Mehe</i>
2	193H1T0001	ADABALA GAANA LAKSHMI	<i>A. Ganalakshmi</i>
3	193H1T0002	ANKAM BABY SAI DURGA PADMASRI	<i>A. Sai durga</i>
4	193H1T0003	BASWANI JAYA CHANDRA VARMA	<i>B. Jayachandra</i>
5	193H1T0004	BOBBY SAMBA	<i>Bobby</i>
6	193H1T0005	CHEEPURUPALLI BHAVYA DEEPIKA	<i>Ch. Bhavya Deepika</i>
7	193H1T0007	INAMPUDI DILEEP VARMA	<i>I. Dileep</i>
8	193H1T0008	KARRI HARIKA	<i>K. Harika</i>
9	193H1T0009	KELANGI ADARSH	<i>A. Adarsh</i>
10	193H1T0010	KOYYURU KRANTHI KIRAN	<i>K. K. Kiran</i>
11	193H1T0011	MOLLETI VIJAYRAJ KUMAR	<i>M. Vijayraj Kumar</i>
12	193H1T0012	NADIPALLI ANNIE CHRISTINE	<i>N. Annie Christine</i>
13	193H1T0014	PARASH NIROULA	<i>Parash</i>
14	193H1T0016	RUTENDO MOLEEN MAUTSA	<i>R.M. Mautsa</i>
15	193H1T0019	SANIPINI SRI LAKSHMI	<i>S. Sri Lakshmi</i>



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16	193H1T0020	SHAIK RESHMA	Sk. Reshma
17	193H1T0021	SHAIK SAFIYA MOHIDDIN	Sk. Safiya
18	193H1T0022	SHIPHRAH ZULU UPAMO	Shiphrah Zulu Upamo
19	193H1T0023	SURLA POOJITHA	S. Poojitha
20	193H1T0024	UPPE ROSHINI	U. Roshini
21	193H1T0026	VISWANADHAPALLI SAI SRINIDHI	V. Srinidhi
22	193H1T0027	SINGARI DHANYASIRI	S. Dhanya Srisiri
23	193H1T0029	AVINASH KUMAR SHAH	Avinash Kumar Shah
24	193H1T0030	PEDDINTI LAKSHMI PADMINI	P. Padmini
25	193H1T0031	VELISETTI KRANTHI SWAROOPA	V. Kranthi Swaroopa
26	193H1T0033	SANNIDHIRAJU V B S R NAGAMANI INDRAJA	S. Indrajaya

K. Gnathi

SIGNATURE OF COORDINATOR



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COURSE NAME : Handling of animals

MARKS: 30

DATE: 04-03-2023

REG NO: 193H1T0008

Answer all the bits. Each bit carries one mark

30 X 1 = 10M

1. What is the experimental use of Guinea pig

[C] ✓

- a) Pyrogen testing b) Bioassay of acetyl choline
c) Evaluation of Bronchodilators d) Gastric acid secretion studies.

2. What is the full form of CPCSEA

[C] ✓

- a) Council for the purpose of control and strength of experimental animals
b) Committee for the post of control and supervision of experimentation animals
c) Committee for the purpose of control and supervision of experimental animals
d) Council of post control and strength of experimentation animals

3. Sacrificing the animals for ethical reasons is called as

[b] ✓

- a) Analgesia b) Euthanasia c) Resuscitation d) Anesthesia

4. Which of the following animals have DNA similar to human

[d] ✓

- a) Chimpanzees b) Rodents c) Dogs d) Rabbits

5. Which of the following are hazards associated with laboratory animals

[d] ✓

- a) Bites, Scratches and kicks b) Allergic reactions
c) Possible zoonotic diseases d) all of the above

6. Physical methods of Euthanasia includes

[d] ✓

- a) Cervical dislocation b) Decapitation c) Stunning d) all of the above

7. Which of the following microbial diseases are most common in rodents

[a] ✓

- a) Hanta virus b) Avian flu c) Fowl pox d) Small pox

8. Glucagon

[b] ✓

- a) Accelerates protein synthesis within cells b) accelerates conversion of glycogen to glucose
c) Decreases conversion of glycogen to glucose d) slows down glucose formation from lactic Acid



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9. Damaged Thymus may result in

[a] ✓

- a) Loss of antibody- mediated immunity b) reduction in stem cell production
c) Deafness d) loss of cell mediated immunity

10. The duration of normal menstrual cycle usually lasts for

[c] ✓

- a) 27 days b) 30 days c) 28 days d) 40 days

11. Guinea pig is not used in which of the following experiments.

[d] ✓

- a) Anaphylactic and immunological studies
b) Evaluation of local anaesthetics c) study of spasmogens & antispasmodics
d) Psychopharmacological studies

12. Vomiting center is absent in which animals

[c] ✓

- a) Chimpanzee b) Dog c) Cat d) Albino rat

13. Albino rat can be used for the bioassay of which hormones

[c] ✓

- a) Insulin b) Gonadotropin c) Androgen d) Thyroid

14. Albino mouse can be effectively used for the study of which of the following except

[d] ✓

- a) Chemotherapeutic agents b) toxicological studies
c) histamine studies d) analgesic studies

15. The enzyme present in Rabbit against the tolerance of belladonna is

[b] ✓

- a) squalene epoxidase b) atropine esterase
c) Glutamine synthase d) hyocyanine decarboxylase

16. Pyrogen testing of parenteral preparations is commonly used in which animals

[c] ✓

- a) Swiss rats b) Rabbit c) Albino mouse d) Guinea pig

17. Study of Mydriatics and Myotics are done in which experimental animals

[b] ✓

- a) Frog b) Chimpanzee c) Rabbit d) Dog

18. Experiment carried on Frog

[a] ✓

- a) Hepato-toxicity studies b) Neuromuscular studies
c) Histamine studies d) Pyrogenic study

19. Instrument used to study effect of drug on locomotor activity of experimental animal

[a] ✓

- a) Actophotometer b) Eddy's hot plate
c) Rota-rod apparatus d) Y-maze



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20. Student organ bath is used to study the effect of drug on the following isolated tissue except

[c✓]

- a) Ilium b) Intestine c) Liver d) Rectus abdominus muscle

21. The instrument used to move the kymograph paper at a desired speed.

[a✓]

- a) Sherrington rotating drum b) Frontal lever
c) Organ bath d) Rota-rod apparatus

22. Tail-flick method is also called as

[c✓]

- a) Eddy's hot plate b) Radial maze
c) Analgesiometer d) Cookes pole climbing apparatus

23. Rota-rod apparatus is used for identifying the study of which property

[a✓]

- a) Anti-psychotic effect b) Locomotor effect
c) Skeletal muscle relaxation d) Neuromuscular blocking

24. Behavior and Memory of experimental animals is studied by which apparatus

[c✓]

- a) Radial maze b) Sherrington rotating drum
c) Cookes pole climbing apparatus d) Actophotometer

25. Histamine aerosol chamber is used to study the effect of one of the following action

[a✓]

- a) Bronchodilation b) Skeletal muscle contraction
c) Mydriasis d) Analgesic action

26. Symes venous cannula is used to supply physiological salt solution of which organ

[c✓]

- a) Kidney b) Lungs c) Heart d) Brain

27. Frontal writing lever is used to record contraction of isolated muscle preparation on

[a✓]

- a) Kymograph paper b) Recording drum c) Organ bath d) Physiological salt solution

28. For recording of contractions of isolated heart preparation which lever is useful

[b✓]

- a) Complex writing lever b) Starling Heart lever c) Simple lever d) Frontal lever

29. Biological name of Rat

[b✓]

- a) Rana tigrana b) Rattus norvegicus c) Oryctolagus cuniculus
d) Mesocricetus auratus

30. Use of Digital tele thermometer for experimental animals

[a✓]

- a) pyrogenic testing b) locomotor testing c) memory testing d) analgesic testing



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Approved by AICTE & PCI - NEW DELHI, Affiliated to JNTUK KAKINADA
(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

Ph: 99498 76664

Email: office@acop.edu.in

Website: www.acop.edu.in

CERTIFICATE COURSE SUMMARY 2022-23

COURSE CODE AND NAME : VHA and handling of animals
COURSE DURATION : 30Hrs
BRANCH AND YEAR OFFERED: IV PharmD
COURSE INSTRUCTORS : Dr. K. Ravi Shankar, Principal and Professor

COURSE OUTCOME

Upon successful completion, students will have the knowledge and skills to understand the species, specific biology of laboratory Animals, Maintenance of laboratory animals with proper diet and facilities, Environmental factors that may influence animal Experiments, Euthanasia, Anaesthesia, & Analgesia for minor & Long-Lasting procedures.

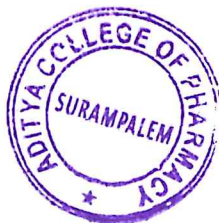
COURSE TYPE : Self framed course

ASSESSMENT MODE

ATTENDANCE : 30 Hours
NO.OF PARTICIPANTS : 26
SCHEME OF EXAM : MCQ Offline
DATE OF EXAM : 04-03-2023

K. Pruthi
Course coordinator

Dr. Ravi Shankar
Principal



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Certificate of
Completion

This is to certify that Mr./Ms.

PEDDINTI LAKSHMI PADMINI

bearing roll number **193H1T0030** has successfully
completed the Value added course entitled
"HANDLING OF ANIMALS" held in
Aditya College of Pharmacy, Surampalem from
03rd February to 03rd March, 2023 (Every Friday)

N. Sankar Reddy
Chairman

N. Sankar Reddy
Vice-Chairman



Xelani Chandra
Director & Principal

Xelani Chandra
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ADITYA COLLEGE OF PHARMACY

Aditya nagar, Surampalem,

Andhra Pradesh 533437



A VALUE-ADDED course on “**HANDS ON TRAINING PROGRAM IN ANALYTICAL INSTRUMENTS**”

Resource Person: N.Divya
Asso. Professor,
Aditya College of Pharmacy

Coordinator: M.Vinny Therissa
Asst. Professor,
Aditya College of Pharmacy

DURATION:

11th March, 2023
to
29th April, 2023
(Every Saturday)



Eligibility: III B.Pharmacy

All the students enrolled in this course will be provided with a certificate



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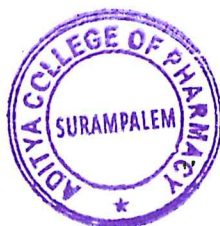
03-03-2023

CIRCULAR

This is to inform all **III B.PHARMACY** students that our college will be offering a ValueAdded Course on "**HANDS ON TRAINING PROGRAM IN ANALYTICAL INSTRUMENTS**" on the dates listed below. Students interested in enrolling in this certificate programme should contact the appropriate coordinator.

Coordinator: **M.Vinnytherissa**

Timings: **11th March, 2023 to 29th April, 2023** (Every Saturday)



Pravin Kumar
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Website: www.acop.edu.in, Email: office@acop.edu.in

COURSE SYLLABUS

DURATION: 40Hrs

Certificate course: Hands on training program in Analytical instruments

Course Objectives:

- To provide basic understanding on sophisticated instruments like UV Visible Spectrophotometer, Fluorimeter, Karl Fischer Titrator.
- Impart training on procedures in handling sophisticated analytical instruments and
- Training on data keeping and routine maintenance of analytical instruments.

Course outcomes:

Upon successful completion, students will have the knowledge and skills to:

1. Explain the theoretical aspects of key analytical techniques and instruments
2. Undertake the correct sample preparation and characterization prior to analysis by the chosen techniques or instruments.
3. Design an analytical work-flow to acquire data and achieve the research objectives of their project.
4. Process data from the chosen instruments and demonstrate understanding of the limitations and quality of the data.

DAY 1, 2: 11-03-2023, 18-03-2023 (12Hrs)

Module 1:

Introduction of Instrumental Analysis, Need of chemical analysis, Methods of chemical analysis, various methods of instrumental analysis and their appropriateness, some important applications.

DAY 3, 4: 25-03-2023, 01-04-2023 (12Hrs)

Module 2:

UV-Visible Spectrophotometer, use and maintenance, sampling applications of UV-Visible spectroscopy, Instrument control: Spectra Measurement, Time Course, Fixed Wavelength, Abs/%T Monitor, Quantitative Analysis

DAY 5 : 08-04-2023 (6Hrs)

Module 3:

Spectra Analysis: spectra view features, processing commands and data output




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DAY 6: 15-04-2023 (5Hrs)

Module 4:

Principle of fluorescence – Measurement of fluorescence – Single beam and double beam filter fluorimeter- Ratio fluorimeter. Spectro fluorimeters.

DAY 7: 29-04-2023 (5Hrs)

Module 5:

Introduction to the use of equipment, to prepare Karl-Fischer reagents, understand water equivalence, standardise auto titrator, record reading on auto titrator, applications of auto titrator in analytical laboratory.

References:

1. Instrumental Methods of Chemical Analysis, Chatwal and Anand, Himalaya Publishing House.
2. UV-VIS Spectroscopy and Its Applications, Heinz-Helmut Perkampus, Springer, Berlin, Heidelberg.
3. [agilent.com/en/product/molecular-spectroscopy/fluorescence-spectroscopy/fluorescence-systems/cary-eclipse-fluorescence-spectrophotometer](https://www.agilent.com/en/product/molecular-spectroscopy/fluorescence-spectroscopy/fluorescence-systems/cary-eclipse-fluorescence-spectrophotometer)




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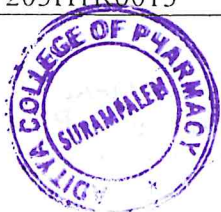
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COURSE NAME: Value added course on “Hands on Training Program in Analytical Instruments”

LIST OF STUDENTS

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2	203H1R0002	ALAMURI KRISHNA CHAKRA MADHU LAKSHMI	A. K. C. Madhu Lakshmi
3	203H1R0003	ARIGELA TEJA	A. Teja
4	203H1R0004	ALAVALA MAHESH BABU	A. Mahesh Babu
5	203H1R0005	BALA BHASKARUDU PEDDIREDDY	P. Bala Bhaskarudu
6	203H1R0006	BETHA NAGA RAMYA KRISHNA	B. N. Ramya Krishna
7	203H1R0007	CHAMAKURI BALA SRI	Ch. Bala Sri
8	203H1R0008	CHAVABHATTINA NAGA SURENDER	Ch. Nagasunder
9	203H1R0009	CHELLINGI SRI KALYANI	Ch. Sri Kalyani
10	203H1R0010	CHIKKALA SAI VENKATA LEELA KUMAR	Ch. S. V. Leela Kumar
11	203H1R0011	CHINNAM DAYAKAR	Ch. Dayakar
12	203H1R0012	DESAMSETTY SIRISHA	D. Sirisha
13	203H1R0013	DIDLA SANDHYA	D. Sandhya



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28	203H1R0028	MARRI SATYA BHULAKSHMI	



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32	203H1R0032	NAKKA SATISH	N. Satish
33	203H1R0033	NALLAM MAHALAKSHMI SANDYA SRI	Sandhya
34	203H1R0034	NASHEELA BEGUM	Nasheela Begum
35	203H1R0035	NEMALA JESSY ELIZABETH	N. Jessy
36	203H1R0036	NUTHI VANITHA	N. Vanitha
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38	203H1R0038	PAMMI SURATNA	P. Suratna
39	203H1R0039	PEYYALA NAMRATHA RAGHA	P. Namratha Ragha
40	203H1R0040	PILLA LAKSHMI LAHARI	P. L. Lahari
41	203H1R0041	PITTA TITUS	P. Titus
42	203H1R0042	POSINA N V D G LAKSHMI TULASI	P. Lakshmi Tulasi
43	203H1R0043	POTHALA RAJI CHANDRIKA	P. Raji Chandrika
44	203H1R0044	RAJABOINA BHARATH KUMAR	R. Bharath Kumar
45	203H1R0046	SIVARATHRI ANIL KUMAR	S. Anil Kumar
46	203H1R0047	SUNKARA PUSHPA	S. Pushpa



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48	203H1R0049	THOKALA LIKITHA RAJA SRI	T. Likitha Raja Sri
49	203H1R0050	TOLETI LAKSHMI SAI KEERTHANA	T.L.S Keerthana
50	203H1R0051	VACHEPALLI ROSHITHA	V. Roshitha
51	203H1R0052	VALLURI SUREKHA	V. Surekha
52	203H1R0053	VEGI SRUJALA	V. Sujala
53	203H1R0054	VENDI VEERA KUMARI	V. Veera Kumari
54	203H1R0055	VIPPARTHI ANIL KUMAR	V. Anil Kumar
55	203H1R0056	YALLA PRASANTHI	Y. Prasanthi
56	203H1R0057	ABHISHEK PAUL	Abhishek - Paul
57	203H1R0058	AJAY KUMAR KUSHWAHA	A. Kushwaha
58	203H1R0059	ANUSURI SUJATHA	A. Sujatha
59	203H1R0060	ARITRO PAUL	Aritro Paul
60	203H1R0061	ARPAN GHOSH	Arpan Ghosh
61	203H1R0062	ASHOK KUMAR BARUN DHOB	Ashok Kumar Barun Dhob
62	203H1R0063	ATTULURI SAI JAHNAVI	A.S. Jahnavi
63	203H1R0064	BHUPENDRA PRASAD KURMI	B.P. Kurmi
64	203H1R0065	BODDU S.L.V. SAI VASANTH	B.S.L.V.S. Vasanth



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66	203H1R0067	GOLDEN GUPTA	Golden Gupta
67	203H1R0068	GYANSAGAR CHAUDHARY	Gyansagar
68	203H1R0069	KANNABATHULA AKHILA	K. Akhila
69	203H1R0070	KARRI SHYAM SANDEEP REDDY	K. Shyam
70	203H1R0071	KOTIPALLI MOHAN KRISHNA SAI SRI RAM	K. Sri Ram
71	203H1R0072	KUNISETTI DIVYA	K. Divya
72	203H1R0073	KUPPALA PAVAN SATYA CHAKRADHAR	K. Pavan
73	203H1R0074	MADDIPATI VIVEK CHOWDARY	M. Vivek Chowdary
74	203H1R0076	MALLIDI RUPIKA REDDY	M. Rupika Reddy
75	203H1R0077	MANAUWAR ALAM	Manuwar Alam
76	203H1R0078	MARNI VINAY KUMAR CHOWDARY	M. Vinay Chowdary
77	203H1R0079	MUDUNURI MONA SRI NEHA	M. Neha
78	203H1R0081	MYGAPULA SESA SAILAJA	M. S. Sailaja
79	203H1R0082	NIMMALA NAVARATNA DURGA PRASAD	N. Navarathna



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81	203H1R0084	PABOLU LIKHITHA	<i>P. Likhitha</i>
82	203H1R0087	PIRLA ROHITH YADAV	<i>P. Rohith</i>
83	203H1R0088	PRIYANKA MANGA	<i>M. Priyanka</i>
84	203H1R0089	PURUSHOTHAM VISHNU SOWJANYA	<i>P. V. Sowjanya</i>
85	203H1R0090	RAYUDU ASWITHA	<i>R. Aswitha</i>
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87	203H1R0093	VALLURI DIVYA SRI DEVI	<i>V. Divya Sri Devi</i>
88	203H1R0094	RUPAM BHANDARI	<i>R. Bhandari</i>
89	203H1R0095	SALAHU KABIRAJ	<i>S. Kabiraj</i>
90	203H1R0096	SANGEETA BAITALIK	<i>S. Baitalik</i>
91	203H1R0097	SANTOSH DAS	<i>S. Das</i>
92	203H1R0098	SATHI ADITYA VANAMA REDDY	<i>A. Sathi</i>
93	203H1R0099	SATTI MARIYA RANI	<i>S. Mariya Rani</i>
94	203H1R00A0	SHREYANSHU KUMAR MAITY	<i>S. Maity</i>
95	203H1R00A1	SUDIP HANRA	<i>Sudip Hanra</i>
96	203H1R00A2	SUMAN PATI	<i>Suman Pati</i>
97	203H1R00A3	SUNIL KUMAR SAH	<i>S. Sah</i>



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99	213H5R0002	PALEMPATI SAI SRI VARSHA	Varsha

COURSE COORDINATOR



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26
30
MARKS: 30

COURSE NAME : Hands on training programme in Analytical Instruments

MARKS: 30

REG NO: 203H1R0017

DATE : 29-04-2023

1. Beer Lambert's law gives the relation between which of the following

[C]

- a) Reflected radiation and concentration
- b) Scattered radiation and concentration
- c) Energy absorption and concentration
- d) Energy absorption and reflected radiation

2. In which of the following ways, absorption is related to transmittance?

[C]

- a) Absorption is the logarithm of transmittance
- b) Absorption is the reciprocal of transmittance
- c) Absorption is the negative logarithm of transmittance
- d) Absorption is a multiple of transmittance

3. Beer's law states that the intensity of light decreases with respect to _____

[a]

- a) Concentration
- b) Distance
- c) Composition
- d) Volume

4. The representation of Beer Lambert's law is given as $A = abc$. If 'b' represents distance, 'c' represents concentration and 'A' represents absorption, what does 'a' represent?

[d]

- a) Intensity
- b) Transmittance
- c) Absorptivity
- d) Admittance

5. Which of the following is not true about Absorption spectroscopy?

[C]



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- a) It involves transmission
- b) Scattering is kept minimum
- c) Reflection is kept maximum
- d) Intensity of radiation leaving the substance is an indication of concentration

6. What is the unit of absorbance which can be derived from Beer Lambert's law?

[d]

- a) $\text{L mol}^{-1} \text{cm}^{-1}$
- b) $\text{L gm}^{-1} \text{cm}^{-1}$
- c) Cm
- d) No unit

7. Which of the following statements is false about single beam absorption instruments?

[b]

- a) Tungsten bulb is used as source
- b) Beamsplitter is used to get parallel beam
- c) Test tube is used as sample holder
- d) Photovoltaic cell as detector

8. Which of the following statement is false about double beam absorption instruments?

[b]

- a) It is similar to single beam instruments except two beams are present
- b) Tungsten bulb is used as source
- c) Reference beam must have higher intensity than sample beam
- d) Both the beams after they pass through respective samples are compared

9. In photometers, the readings of the specimen are initially obtained in the form of which of the following parameters?

[a]

- a) Transmittance
- b) Absorption
- c) Wavelengths
- d) Volume



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10. In the diagram of single beam photometer given below, identify the component that is not marked.

[d] ✓

- a) Monochromator
- b) Absorption filter
- c) Sample holder
- d) Interference filter

11. Which of the following is the purpose of the beam splitter in double beam photometer or colorimeter?

[a] ✓

- a) Splits beam into two equal intensity beams
- b) Splits beam in such a way that sample beam has higher intensity
- c) Splits beam in such a way that reference beam has higher intensity
- d) Merge two equal intensity beams into single beam

12. Which of the following is a source used in spectroscopy?

[b] ✓

- a) LASER
- b) Tube light
- c) Sodium vapor lamp
- d) Tungsten lamp

13. Which method is used to determination of water content ?

[b] ✓

- A. Kjeldahl method
- B. Karl-fischer titration
- C. Diazotization titration
- D. All of the above

14. How many gm iodine is used in KIER REAGENT ?

[b] ✓



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A. 40

B. 45

C. 30

D. 50

15. 1 ml of KRF =

[C]

A. 2.4 gm water

B. 3.6 gm water

C. 3.5 mg water

D. 1.4 mg water

16. Which material are used as moisture protection?

[C]

A. Calcium chloride

B. Silica gel

C. A and B

D. None of this

17. Karl fischer titration working principal is?

[C]

A. Iodine reaction

B. Iodide reaction

C. A and B

D. None of the above

18. When molecules are excited in visible region which lamp is used?

[b]

A. Hydrogen deturium lamp



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B. Xenon lamp

C. Tangustan lamp

C. Mercury lamp

19. Which filter are absorbed UV radiation and transmit visible radiation?

[C]

A. Primary filter

B. Secondary filter

C. A and B

D. None of this

20. Which filter are absorbed visible radiation and transmit UV radiation?

[d]

A. Primary filter

B. Secondary filter

C. A and B

D. All of the above

21. At low pressure Mercury lamp liner radiation wavelength is?

[d]

A. 254 nm

B. 700 nm

C. 800 nm

D. 600 nm

22. Sample cell shape is

[d]

A. Cylindrical

B. Quadrangular



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C. A and B

D. None of this

23. How many mm path length is sample cell ?

[a]

A. 10 mm

B. 20 mm

C. 30 mm

D. 40 mm

24. During first rotation of chopper radiation beam is transmit through ?

[b]

A. Sample cell

B. Reference cell

C. A and B

D. None of this

25. During second rotation of chopper radiation beam is transmit through ?

[a]

A. Sample cell

B. Reference cell

C. A and B

D. None of this

26. Which detector are used in Fluorimetry?

[b]

A. Photo voltaic cell

B. PMT

C. Photo tube



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D. All of the above

27. Which are the variant of Fluorimetry instrument ?

[d]

A. Single beam

B. Double beam

C. Spectrofluorimeter

D. All of the above

28. Which of the following is not a limitation of Beer Lambert's law, which gives the relation between absorption, thickness, and concentration?

[b]

a) Concentration must be lower

b) Radiation must have higher bandwidth

c) Radiation source must be monochromatic

d) Does not consider factors other than thickness and concentration that affect absorbance

29. Transmittance is given as $T = P/P_0$. If P_0 is the power incident on the sample, what does P represent?

[a]

a) Radiant power transmitted by the sample

b) Radiant power absorbed by the sample

c) Sum of powers absorbed and scattered

d) Sum of powers transmitted and reflected

30. Lambert's law states that the intensity of light decreases with respect to _____

[b]

a) Concentration

b) Distance

c) Composition

d) Volume



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COLLEGE OF PHARMACY

Approved by AICTE & PCI - NEW DELHI, Affiliated to JNTUK KAKINADA
(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

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VALUE ADDED COURSE SUMMARY 2022-23

COURSE CODE AND NAME : VTAI and Hands on training programme in Analytical Instruments

COURSE DURATION : 40Hrs

BRANCH AND YEAR OFFERED: III B.Pharmacy

COURSE INSTRUCTORS : N.Divya, Associate professor

COURSE OUTCOME

Students will have the knowledge and skills to:

1. Explain the theoretical aspects of key analytical techniques and instruments
2. Undertake the correct sample preparation and characterization prior to analysis by the chosen techniques or instruments.
3. Design an analytical work-flow to acquire data and achieve the research objectives of their project.
4. Process data from the chosen instruments and demonstrate understanding of the limitations and quality of the data.

COURSE TYPE : Self framed course

ASSESSMENT MODE

ATTENDANCE : 40 Hours

NO.OF PARTICIPANTS : 99

SCHEME OF EXAM : MCQ Offline

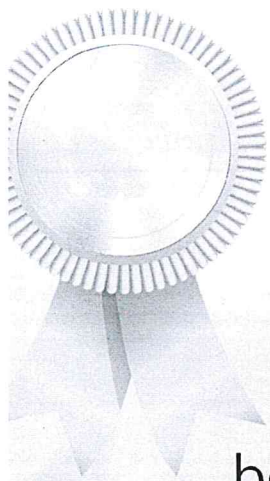
DATE OF EXAM : 29-04-2023



Course Coordinator



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Certificate of completion

This is to certify that

Mr./Ms. **CHAMAKURI BALA SRI**

bearing roll no. **203H1R0007** has successfully completed the
certificate course entitled

"Hands on Training Program in Analytical Instruments"
conducted in Aditya College of Pharmacy, Surampalem
from 11th March, 2023 to 29th April, 2023 (Every Saturday)

N. Sate Reddy

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VICE-CHAIRMAN

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