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(Approved by the AICTE, PCI & Affiliated to Osmania University)

Recognized under section 2(f) of the UGC Act 1956



RBVRR

EAMCET Code: RBVW | PGECET Code: RBVW1 www.Rbvrrwcp.org | Email: rbvrrwcoph@rediffmail.com& rbvrrwcp2006@gmail.com



Invites you to the Certificate course on:

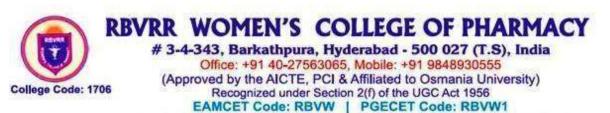
"PROFESSIONAL DEVELOPMENT"

Convener: Prof. M. Sumakanth Principal of RBVRR Women'ss College of Pharmacy

Guest of Honor: Prof. K. Muthyam Reddy Hon. Secretary & Correspondent of RBVRR Women's College of Pharmacy DATE: 3rd Jul 2021 <u>VENUE:</u> Seminar Hall

Programme Schedule

DATE	SPEAKER
3 rd -5 th Jul 2021	P. Anuradha Reddy Retd. Professor Osmania University
6 th — 7 th Jul 2021	Mrs. P. Swathi Psychologist
8 th – 9 th Jul 2021	Prof. Sumita Roy Retd. Professor Osmania University
10 ^{th -} Jul 2021	Prof. M. Sumakanth Principal RBVRR Women's College Of Pharmacy



www.rbvrrwcp.org | Email: rbvrrwcoph@rediffmail.com & rbvrrwcp2006@gmail.com

Value Added Course				
Course: PROFESSIONAL DEVELOPMENT				
Code: PDC004Credits: 2Total No. of Hours : 36				

Introducing Professional development skills as a course to students helps them to succeed in their academic and personal lives, build up strong relationships, and improve their overall well-being. Professional development skills are not only for personal growth but also for professional success. These courses cover a wide range of topics, from leadership skills to technical skills. Below is an outline that covers the basic aspects of various types of Professional Development Skills.

Course Objectives:

The Professional development skills course objective is to create oneself aiming at advancing their career and enhancing their skills and talents in the workplace.

The specific course objectives provides, explores and familiarize the students with insights on Time Management, Advanced writing skills, Interview skills, Leadership skills and Research skills which are important for building up their career.

Professional development skills refer to the abilities and traits that help individuals grow and improve. Here are some reasons why professional development skills matter for individuals:

1. Improved Self-Awareness

Personal development skills help students become more self-aware. This means understanding their strengths, weaknesses, values, and goals. By developing self-awareness, students can make better decisions and find more fulfillment in their lives.

2. Goal Setting and Time Management

College students have a lot on their plates, from coursework to extracurricular activities. By developing goal-setting and time-management skills, students can prioritize their tasks and make the most of their time.

3. Better Communication

By developing communication skills, students can improve their relationships with peers, professors, and future employers.

4. Adaptability and Resilience

Life is unpredictable, and students will inevitably face challenges and setbacks. By developing adaptability and resilience, students can bounce back from setbacks and overcome obstacles.

By the end of the program, participants will be aware about all that are required for their career development i.e from leadership skills to technical skills.

SYLLA	ABUS
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Unit 1	Time Management	6 Hours		
Fime Mana	gement:			
	ne Management, Why Time Management Is Important.			
Planning T	ips and Tricks:			
Planning To	ols			
Setting Prior	rities			
Prioritizing	Your Tasks			
Your To-Do				
	nterruptions and DistractionsTips for Controlling Disruptions			
Setting Goa				
Goals and T	argets, Setting SMART Goals, Your Own SMART Goals			
Unit 2	Advanced Writing Skills	7 Hours		
The C's of	Writing:			
	early, Writing Concisely, Making Connections, Writing Corre	ctly, Choosing Your Sources		
•	ith Specific Requests:	,,		
0	etters, Keeping it Real			
Writing M				
Building P	aragraphs, Proper Paragraphs, More on Paragraphs, Making C	Connections		
Preparing	Business Documents:			
Requests f	or Proposals, The Proposals, The Differences When Writing	Proposals, Ten Steps of		
Proposal Writing, Writing Reports, Documentation				
rioposal v	Thing, writing Reports, Documentation			
Unit 3 Interview S Group Disc discussion	Interview Skills kills: Purpose of an interview, Do's and Dont's of an intervie cussion: Introduction, Communication skills in group discussion	on, Do's and Dont's of group		
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Measurement and Scaling, Data Source and Data Collection

Field research; primary data collection from observations, surveys and experimentation. Measurement and scaling; commonly used scales in reliability and validity of scales. Designing instrument for data collection; testing the instrument, data collection process, Sampling methods and procedures and samplesize decisions.

Data Analysis

Editing and coding of data, tabulation, graphic presentation of data, cross tabulation, Testing of hypotheses; type I and II errors, one tailed and two tailed tests of significance, Parametric and nonparametric tests for Univariate and Bivariate data. Tests of association; simple linear regression and other nonparametric tests.

Report Writing and Presentation

Professional Development Course Outcomes:

After the successful completion of this module the learners will be able to inspire individuals, manage talent, influence, lead teams, resolve conflict, build trust, increase cooperation and enhance productivity.

- 1. Demonstrate knowledge of and apply the basic principles of productivity to their own life.
- 2. Identify personal priorities and goals.
- 3. Identify how to maximize their time in order to accomplish their goals both personally and professionally
- 4. Students can effectively manage the team as a team player.

Develop interview skills and Leadership qualities which Helps to develop critical appreciation

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON – PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 1&2 (Session 1&2)

- 1. Name of the participant and institute: Sou uidua.
- 2. Name of the institute: Revor women's college of phasmacy
- 3. Email id of the participant: Shi widy a gongil cond
- 4. How was the content delivered by the speaker? (P. Anuradha Reddy)
 - Excellent
 - o Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - Excellent
 - o Very Good
 - o Good
 - o Average
- 6. Smart goals are to provide better understand all very good
- 7. Goal setting include
 - a) Process
 - b) Performance
 - c) Qutcome
 - All of the above
- 8. Goal setting helps in
 - a) Setting a realistic timeline for the goal accomplishment
 - by Provide a better understanding of expectations
 - c) Give clarity to decision making
 - d) All of the above

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9. Setting goals is important because it allows to be creative
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- 10. Was the session helpful and would you like to attend more sessions like this?
 - Yes
 - o No
 - o Maybe

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CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 1&2 (Session 1&2)

- 1. Name of the participant and institute: Sindy & Youdge
- 2. Name of the institute: Abron Women's College of prosmate
- 3. Email id of the participant: Sindula Yadav Mag Rai Cubm
- 4. How was the content delivered by the speaker? (P. Anuradha Reddy)
 - Excellent
 - o Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - ✓ Excellent
 - Very Good
 - o Good
- 6. Smart goals are to provide better understanding are very good
- 7. Goal setting include
 - a) Process
 - b) Performance

 - c) Outcome
- All of the above Goal setting helps in
 - a) Setting a realistic timeline for the goal accomplishment
 - b) Provide a better understanding of expectations
 - c) Give clarity to decision making
- to be consten -d) All of the above 9. Setting goals is important because it allours us
- 10. Was the session helpful and would you like to attend more sessions like this?
 - y Yes
 - o No
 - o Maybe

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Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 3&4 (Session 1&2)

- 1. Name of the participant and institute : D neha
- 2. Name of the institute REVER WOMEN college of prainwey
- 3. Email id of the participant : hehad Rownwil (brn d
- How was the content delivered by the speaker? (Prof. Sumita Roy)
 - o Excellent
 - Very Good
 - 5 Good
 - o Average
- 5. How do you rate the session?
 - o Excellent
 - e Very Good
 - o Good
 - o Average

o. Leadership is the ability of diviting the group to achieve goals

- 7. What are the most important roles of a good leader?
 - a) Motivational Team Members
 - b) A Good Communicator
 - c) Unity
 - All of the above
- 8. What are the qualities of a good leader?
 - a) High level intelligence
 - b) Emotional Stability
 - c) Motivating others
 - All of the above

9. A leaders most important function is to achieve discred goals

- Yes
 - o No
 - o Maybe

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CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 3&4 (Session 1&2)

- 1. Name of the participant and institute : lanoi hage
- 2. Name of the institute: Phyor women's college of pharmary
- 3. Email id of the participant : la soni has 21@ gorall. corn
- 4. How was the content delivered by the speaker (Prof. Sumita Roy)
 - Excellent
 - o Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - o Excellent
 - o Very Good
 - o Good
- 6. Leadership is the ability of diviling the group to achieve goals
- 7. What are the most important roles of a good leader?
 - a) Motivational Team Members
 - b) A Good Communicator
 - c) Unity
 - d) All of the above
- 8. What are the qualities of a good leader?
 - a) High level intelligence
 - b) Emotional Stability
 - c) Motivating others
 - All of the above
- 9. A leaders most important function is to acchive desired goals

- & Yes
- o No
- o Maybe

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CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 5&6 (Session 1&2)

- 1. Name of the participant and institute: Hushithe
- Name of the institute: <u>RBVREWCOP</u>.
 Email id of the participant: <u>Hrushithaq@qmail.com</u>
- 4. How was the content delivered by the speaker? (Mrs.P.Swathi)
 - Excellent
 - o Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - o Excellent
 - Very Good
 - o Good
 - o Average
- 6. Writing skills are important as it serves as medium through which we communicate - True / False

7. Clear and effective communication of ideas includes

- a) Purpose relevance and justification of writing
- b) Content relevance and clarity
- c) Word choice and idioms usage
- All of the above
- 8. Different types of writings include
 - a) Expository Writing
 - b) Descriptive Writing
 - c) Persuasive Writing
 - All the Above

9. Resume is a summary of One's information

- 6 Yes
- o No
- o Maybe

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CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 5&6 (Session 1&2)

- 1. Name of the participant and institute: B. Pavani
- 2. Name of the institute: <u>RBVRR Nomen's College of pharmany</u>
- 3. Email id of the participant: Pavani Dgmai loom
- 4. How was the content delivered by the speaker? (Mrs.P.Swathi)
 - o Excellent
 - Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - ø Excellent
 - Very Good
 - o Good
 - o Average
- 6. Writing skills are important as it serves as medium through which we communicate - True / False
- 7. Clear and effective communication of ideas includes
 - a) Purpose relevance and justification of writing
 - b) Content relevance and clarity
 - c) Word choice and idioms usage
 - All of the above
- 8. Different types of writings include
 - a) Expository Writing
 - b) Descriptive Writing
 - c) Persuasive Writing
 - d) All the Above

formation 9. Resume is a summary of

- ø Yes
- o No
- o Maybe

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CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 7 (Session 1&2)

- 1. Name of the participant and institute: Aleha
- 2. Name of the institute: REVER womens collige of pharmary
- 3. Email id of the participant: Allha modner @ ghail com
- 4. How was the content delivered by the speaker? (Prof. M. Sumakanth)
 - Sexcellent
 - o Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - o Excellent
 - Very Good
 - o Good
 - o Average
- 6. Observational Studies include
 - a) Cohort studies
 - b) Case control studies
 - c) Cross control studies
 - -dY All the above
- 7. By controlling the conditions, experimental studies establish Indepdent
- 8. Key features of Experimental studies are
 - a) Randomized Controlled trials
 - > Control groups
 - c) None of the above
 - d) All of the above

- 9. Observational research studies involve <u>gathering</u> data 10. Was the session helpful and would you like to attend more sessions like this?

 - & Yes
 - o No
 - o Maybe

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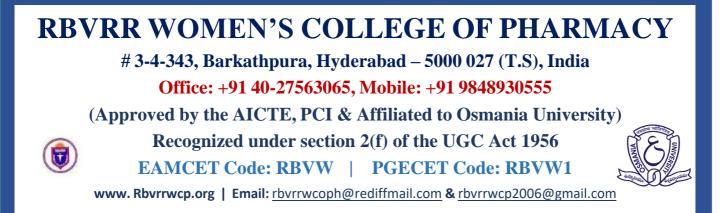
Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 7 (Session 1&2)

- Theineni 1. Name of the participant and institute:
- 2. Name of the institute: RBRR WOMEN's College & pharmacy
- 3. Email id of the participant: Teineniankarragral
- 4. How was the content delivered by the speaker? (Prof. M. Sumakanth)
 - o Excellent
 - Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - Excellent
 - o Very Good
 - o Good
 - o Average
- 6. Observational Studies include
 - a) Cohort studies
 - b) Case control studies
 - c) Cross control studies
- 8. Key features of Experimental studies are
 - a) Randomized Controlled trials
 - (Control groups
 - c) None of the above

- d) All of the above
 9. Observational research studies involve gathuing data
 10. Was the session helpful and would you like to attend plore sessions like this?
 - Yes
 - o No
 - o Maybe



A 10 DAY CERTIFICATE COURSE IN PHARMACOVIGILANCE 2021

COURSE BENEFITS

- Career Guidance and Resume Writing Skills
- Intensive 36-Hour Training by Industry Experts
- Hands-on Real-Time Practice Completion Certificate.

In Association with our Training Partner:

Registration Fee - Rs 1000/-Last Date for Registration:

25th Oct 2021

Payment: Gpay to 7416614919



About RBVRR Women's College of Pharmacy:

RBVRR Women's College of Pharmacy, founded in the year 2006, operates successfully under Hyderabad Mahila Vidhya Sangam, guided by the visionary leadership of its Founder Principal, Prof. M. Sumakanth, with a core mission of offering education to young women. The college has spacious classrooms, well-equipped laboratories with the latest equipment, and well-furnished seminar hall, conference room and library with a good number of the latest editions of both textbooks and reference books. The college is recognized as research centre by Osmania University. The college is offering the following courses:

- B.Pharmacy (100seats)
- Pharm.D (32)
- M.Pharmacy (Pharma.Chemistry, Pharmaceutics, Pharm.Analysis and Pharmacology).

About ClinoSol:

Founded in 2019, ClinoSol is a dynamic and forward-thinking healthcare company dedicated to transforming the way medical solutions are delivered. With a strong focus on innovation, ClinoSol has emerged as a pioneer in the industry, continuously striving to improve patient outcome and enhance healthcare systems globally. ClinoSol's products and services are tailored to serve the industry needs, thus, students can benefit from engaging with ClinoSol's professional tone of voice as they explore the innovative advancements in healthcare.

About the Course

- The 10-Day Hands-on Certificate course in Pharmacovigilance aims to provide participants with a comprehensive understanding of pharmacovigilance principles and practices.
- Through interactive sessions and practical exercises, attendees will learn about the importance of drug safety monitoring, adverse event reporting, and risk management strategies.
- The workshop will also cover the regulatory framework surrounding Pharmacovigilance and the role of various stakeholders in ensuring drug safety.
- Assist students in selecting a career path in pharmacovigilance.

SCHEDULE

DATE	MODULE #	TOPIC	SPEAKER	DURATION
28 th OCT 2021	Module 1	Module 1Introduction to Clinical Research and PharmacovigilanceC.S Mujeebuddin		4 Hours
29 th OCT 2021	Module 2	Case processing workflow	C.S Mujeebuddin	4 Hours
30 th oct 2021	Module 3	Causality Assessment	Uma Priya	4 Hours
01 st Nov 2021	Module 4	Expedited Reporting Uma Priya		3 Hours
02 nd Nov 2021	Module 5	Narrative Writing	ative Writing C.S Mujeebuddin	
03 rd Nov 2021	Module 6	Medical Coding in PV	C.S Mujeebuddin	3 Hours
04 th Nov 2021	Module 7	Signal Management	Uma Priya	3 Hours
05 th Nov 2021	Module 8	Aggregate Reporting	eporting Uma Priya	
06 th Nov 2021	Module 9	Hands on Exercises	Dr.Mitesh Reddy	4 Hours
08 th Nov 2021	Module 10	Hands on Exercises and Assessment	Dr.Mitesh Reddy	4 Hours

COURSE OUT COMES

After completion of this course Participants can

- 1. Understand the basics of Pharmacovigilance and current status of Indian and Global Pharmacovigilance.
- 2. Explain Qualitative and Quantitative signal detection and perform Signal detection and management.
- 3. Gain insights into the significance of adverse event reporting and effective risk management strategies in the pharmaceutical industry
- 4. Equip with valuable knowledge and skills, fostering understanding of pharmacovigilance principles and preparing them for potential careers in this field.
- 5. Familiarize with real-world pharmacovigilance scenarios through Hands-on training sessions.

An Intensive Practice based Certification Course on					
PHARMACOVIGILANCE					
Code:PVCC004 Credits: 2 Course duration:36hrs					

This certificate course is designed to equip participants with a deep understanding of pharmacovigilance principles, methodologies, and practical applications. This course is an unique blend of theoretical knowledge and practical skills, providing participants with a solid foundation for a successful career in pharmacovigilance.

OBJECTIVE: This course is exclusively designed for Graduates in Pharmacy and Bio-Sciences, Medical Professionals, junior professionals in Pharmaceutical and IT Industry and also for B.Pharm, Pharm D, M.Pharm pursuing students and to embrace the tactical aspects of Pharmacovigilance .

SYLLABUS

Module I	Introduction to Pharmacovigilance	4hrs				
Introduction to Clinical Research and Pharmacovigilance. Historical perspectives and Current						
Status of pharmacovigilance. National and international aspects of PV.						
Module II	Module II Case Processing Workflow 4hrs					
Adverse Drug Reactions - Typ	es, detection and reporting methods. Sour	cces of Cases:				
Unsolicited Reports, Solicited	reports, contractual agreements, Regulato	ry Authorities, Steps				
in case processing.						
Module III	Causality Assessment	4hrs				
Factors Considered in Causali	ty Assessment, Methods and Tools for Ca	usality Assessment,				
Methods and Tools for Causa	lity Assessment, Case studies.					
Module IV	Expedited Reporting	3hrs				
Types of Regulatory reporting reporting, Regulatory obligation	, Criteria for Expedited Reporting, Time	Frames, Channels of				
Module V:	Narrative Writing	4hrs				
Narrative Writing objectives, r	egulatory frame work, Template of narrat	ive writing. Case				
Studies.						
Module VI	Medical Coding in PV	3hrs				
Medical coding: Introduction, WHO adverse reactions, terminologies, Med DRA and Standardized Med DRA.						
Module VII	Signal Management	3hrs				
Signal terminologies, Methods of signal detection. Signal Management process flow,						
Qualitative and Quantitative si	gnal detection, Analysis of different data	sources.				

Module VIII	Aggregate Reporting	4hrs		
Types of aggregate reporting, Reporting intervals, communication to re		gulatory authorities		
Module IXPractical session on Narrative Writing.4hrs				
Exercises on Spontaneous rep	orts,			
Module XPractical session on Causality assessment and Med DRA4hrs				
Assessment of Causality based on Naranjo scale for the given cases, Med DRA Coding Demo				

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON PHARMACOVIGILANCE 2021

FEEDBACK FORM DAY

- 1. Name of the participant and institute : Rabia Rimsha
- 2. Name of the institute: RBVRR Women's college of Pharmacy. 3. Email id of the participant: RabiarimshaB@gmail.com.
- 4. How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
- 5. How do you rate the session?
 - Excellent
 - C/ Very Good
 - Good
 - Average
- 6. The atom New treatments that have been tested in laboratory have ?
 - a) 72-82% No risk whatsoever when used in clinical trials.
 - b) 40-50% Risk when used in clinical trials.
 - c) 90-100% Efficacy and effectiveness
 - d) Efficacy and safety as well.
- 7. Controlled clinical trials are essential for assessing ?
 - a) CO2 Compound screening
 - by CFC The safety and efficacy of new treatment.
 - c) Safety and dosage
 - d) New drug approval
- 8. Which is not the principle of GCP as per ICH ?
 - a) It should be initiated only if anticipated benefits just the risk.
 - b) It should be scientifically signed and described in a clear detail procedure
 - c) Its protocol must have received prior approval from the ethics committee

The confidentiality of the subjects should not be protected all the time.

9. Time line to complete all the three phases of clinical trials before the licensing stage of COVID-19

a)12-14yrs b) 9-10 yrs a) 6-7 yrs d) 2-3yrs.

11. Would you like to have more sessions like this ?

& Yes

o No

(Approved by ARCTE & PCI, Affiliated to Osmanta University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON PHARMACOVIGILANCE 2021

FEEDBACK FORM DAY

- 1 Name of the participant and institute . Harua Farein
- 2 Name of the institute RBVRR Women's College of Pharmacy
- Email is of the participant Parachanya 22@ grail. Com
- 4 How was the content delivered by the speaker?
 - Excellent
 - C Very Good
 - Good
 - Average
- 5 How do you rate the session?
 - Excellent
 - Very Good
 - 🖌 Good
 - Average
- 6 The atom New treatments that have been tested in laboratory have ?
 - a) 72-82% No risk whatsoever when used in clinical trials.
 - b) 40-50% Risk when used in clinical trials.
 - c) 90-100% Efficacy and effectiveness
 - d) Efficacy and safety as well.
- 7. Controlled clinical trials are essential for assessing ?
 - a) CO; Compound screening
 - CFC The safety and efficacy of new treatment.
 - c) Safety and dosage
 - d) New drug approval
- 8. Which is not the principle of GCP as per ICH ?
 - a) It should be initiated only if anticipated benefits just the risk.
 - b) It should be scientifically signed and described in a clear detail procedure

c) Its protocol must have received prior approval from the ethics committee

of The confidentiality of the subjects should not be protected all the time.

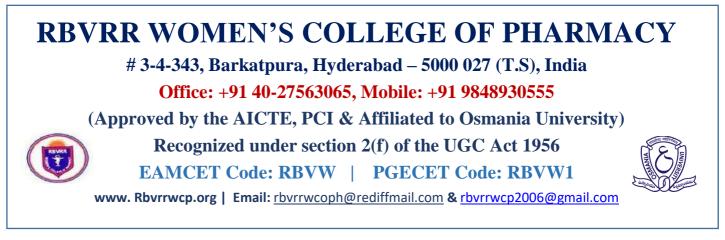
 Time line to complete all the three phases of clinical trials before the licensing stage of COVID-19

a)12-14yrs b) 9-10 yrs 16-7 yrs d) 2-3yrs.

11. Would you like to have more sessions like this ?

S Yes

o No



Certificate course on GREEN CHEMISTRY IN DRUG DISCOVERY-2021 03rd-10th Dec 2021

COURSE BENEFITS:

- Learn about principles of green chemistry.
- Gain hands on training on microwave synthesizer
- Learn about design of nano-catalysts and significance of phase transfer catalysts and Biocatalysts in drug discovery.



Registration Link: <u>https://forms.gle/Yu9WvuzVo2LvQbjV8</u>

Registration Fee: 1000/-Last Date for Registration: 30 Nov 2021

Gpay Number : 7702236567

Established in 2006, RBVRR Women's College of Pharmacy functions effectively under *Hyderabad Mahila Vidhya Sangam*, under the visionary direction of Prof. M. Sumakanth, the college's founder principal. The primary objective of the college is to provide education to young women. The institution features large classrooms, modern, well-equipped laboratories, a well-furnished seminar hall, a conference room, and a library with a good selection of the most recent editions of reference and textbook materials.

The college is offering the following courses:

1. B.Pharmacy (100seats)

2. Pharm.D (32seats)

3. M.Pharmacy (Pharma. chemistry, Pharmaceutics, Pharm. Analysis and Pharmacology)

VISION

To lead the way in impacting lives via a creative, tenacious, and caring approach to pharmacy education as a National Women's Pharmacy Professional.

MISSION

Besides from the traditional curriculum, RBVRRWCP empowers and prepares female students for success in a changing society through on-going awareness programs.

OBJECTIVES

- To familiarize with green chemistry.
- To learn about green reagents, green solvents, green catalysts and reaction conditions.
- To know about greener technologies and alternative energy sources.
- To learn about renewable resources and greenhouse effect.
- To know the importance of catalysis in green synthesis.
- To know various techniques in green chemistry based on current needs.
- To learn the various green techniques and the technology behind them.

Value added course				
Course: Green chemistry in drug discovery				
Code: GCDCC004Credits: 4Total No. of Hours: 36hrs.				

AIM:

This certificate course aims to enhance understanding about the importance of green chemistry in medication design and development. The course focuses on the fundamentals of green chemistry, design, alternative energy sources, green synthesis catalysis, and contemporary green chemistry developments.

SYLLABUS

UNIT I: PRINCIPLES AND CONCEPTS OF GREEN CHEMISTRY 6 HRS

Introduction, principles of green chemistry, sustainable development and green chemistry. Atom economic reactions - rearrangement and addition reactions. Atom un-economic reactions - substitution, elimination reactions.

UNIT II: DESIGNING A GREEN SYNTHESIS

Role of green synthesis in drug discovery Green discoveries; greener reagents, role of green catalysts in organic synthesis, Sustainable synthesis of pharmaceuticals. Development of Photo enzymatic Strategies for Selective Organic Synthesis—Focus on Advantages and Challenges

UNIT III: GREENER TECHNOLOGIES AND ALTERNATIVE ENERGY SOURCES 7 HRS

Chemistry using Microwaves: Microwave heating and microwaveassisted reactions in water, reactions in organic solvents, solvent free reactions. Sonochemistry & Electrochemical synthesis with examples.

UNIT IV: RENEWABLE RESOURCES AND GREENHOUSE EFFECT 8 HRS

Biomass as a renewable resource: Fossil fuels, biomass, solar power, fuel cells and other forms of renewable energy. Chemicals and polymers from renewable feedstock. Greenhouse effect and Global Warming - Introduction - How the greenhouse effect is produced - Major sources of greenhouse gasses - Emissions of CO2 - Impact of greenhouse effect on global climate. Control and remedial measures of greenhouse effect. Global warming- A serious threat to life on earth.

UNIT V: CATALYSIS IN GREEN SYNTHESIS. 8 HRS

The design of Nano-catalysts for energy and environmental applications. Phase Transfer Catalysts: Introduction, mechanism of catalytic action, type of catalysts and its advantages, Application of Phase transfer catalysis in green synthesis. Biocatalysts: Introduction, Biochemical oxidations and reductions.

PROGRAM SCHEDULE:

DATE	MORNING SESSION	AFTERNOON SESSION		
	(10.30AM-1.00PM)	(2.00PM-4.30PM)		
03 rd Dec 2021	Dr. V. Naveen Reddy Assistant Professor, Department of Chemistry, Nizam College, Hyderabad.	Dr. K. Premalatha Assistant Professor Department of Chemistry, University College for Women, Osmania University.		
04 th Dec 2021	Dr. Bhoomi Reddy Rama Devi Professor & Head of the Department, Chemistry JNTUH University College of Engineering, Science & Technology, Hyderabad.	Dr. Srinivas Nanduri Professor, Department of Chemical Sciences, NIPER Hyderabad.		
06 th Dec 2021	Dr. K. Premalatha Assistant Professor Department of Chemistry, University College for Women, Osmania University.	Dr. Srinivas Nanduri Professor, Department of Chemical Sciences, NIPER Hyderabad.		
07 th Dec 2021	Dr. Bhoomi Reddy Rama Devi Professor & Head of the Department, Chemistry JNTUH University College of Engineering, Science & Technology, Hyderabad.	Dr. V. Naveen Reddy Assistant Professor, Department of Chemistry, Nizam College, Hyderabad.		
08 th Dec 2021	Dr. K. Premalatha Assistant Professor Department of Chemistry, University College for Women, Osmania University.	Dr. Srinivas Nanduri Professor, Department of Chemical Sciences, NIPER Hyderabad.		
09 th Dec 2021	Dr. V. Naveen Reddy Assistant Professor, Department of Chemistry, Nizam College, Hyderabad.	Dr. Bhoomi Reddy Rama Devi Professor & Head of the Department, Chemistry JNTUH University College of Engineering, Science & Technology, Hyderabad.		
10 th Dec 2021	Dr. Srinivas Nanduri Professor, Department of Chemical Sciences, NIPER Hyderabad.	Dr. Bhoomi Reddy Rama Devi Professor & Head of the Department, Chemistry JNTUH University College of Engineering, Science & Technology, Hyderabad.		

Program Coordinator:

Dr. M.Vijaya Bhargavi

Associate Professor& Head Department of Pharmaceutical Chemistry RBVRR Women's College of Pharmacy. Contact no.: 98480 54391 For Queries Contact Mrs V. Padmaja: 9849583030 Mrs P. Archana: 8660723852 Mrs Sajida Afreen: 7702236567

(Approved by AICTL & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

FEEDBACK FORM DAY - 1 SESSION - 1& 2 :

- 1. Name of the participant: <u>G. Manogna</u>
- 2. Name of the institute: RBVRR wornen's college of Pharmany
- 3. Email id of the participant : -
- 4. How was the content delivered by the speaker?
 - Excellent
 - o Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - o Excellent
 - Very Good
 - o Good
 - o Average

6. The most potent greenhouse gas in terms of efficiency is

- a) N₂O
- b) CO_2
- S CFC
- d) CH₄
- 7. The atom economy obtained for green synthesis in the range of
 - a) 62-70%
 - b) 72-82%
 - c) 40-50%
 - d 90-100%
- 8. Green synthesis method is ______ than the conventional method.
 a) Most costlier b) More efficient c) Slower d) Less efficient.
- 9. Which of the following reaction is atom economic reaction?
 a) Addition b) Substitution (Rearrangement d) Elimination.
- 10. Would you like to have more sessions like this ?
 - Yes
 - o No

(Approved by AICTL & PCL Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

FEEDBACK FORM DAY - 1 SESSION - 1& 2 :

- 1. Name of the participant: <u>k. Divya</u> 2. Name of the institute: <u>RBVRR</u> womens college of Pharmay
- 3. Email id of the participant :
- 4. How was the content delivered by the speaker?
 - o Excellent
 - o Very Good
 - Je Good
 - o Average
- 5. How do you rate the session?
 - o Excellent
 - o Very Good
 - o Good
 - o Average
- 6. The most potent greenhouse gas in terms of efficiency is
 - a) N₂O
 - b) CO₂
 - y CFC
 - d) CH₄
- 7. The atom economy obtained for green synthesis in the range of
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 - by 72-82%
 - c) 40-50%
 - d) 90-100%
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- 9. Which of the following reaction is atom economic reaction? a) Addition b) Substitution C Rearrangement d) Elimination
- 10. Would you like to have more sessions like this ?
 - & Yes
 - o No

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

FEEDBACK FORM DAY – 2 :

۱.	Name of the participant	and institute :	Hadia	2		
2.	Name of the institute:	RBVRP	women's	coller	ofph	amay
•				1	• 1	

3. Email id of the participant :

4. How was the content delivered by the speaker?

- o∕ Excellent
- o Very Good
- o Good
- o Average
- 5. How do you rate the session?
 - o Excellent
 - o / Very Good
 - Good
 - o Average
- 6. At which part of the enzyme does the substrate fit in?
 - a) Left end
 - b) Right end
 - or Active site
 - d) Binding site
- 7. The metal ions that binds the substrate and active site of the enzyme is called
 - a) Inhibitors
 - b) Coenzyme
 - SY Prosthetic group
 - d) Cofactors
- 8. Active site occupy less than 5% of total surface of enzyme.
- 9. How are enzymes different from catalysts?
 - a) Enzymes are active at high temperatures
 - b) Catalysts are active at sub-zero temperatures
 - Catalysts are efficient at high temperatures and high pressures.
 - d) Enzymes are denatured at room temperature.
- 10. How many classes are enzymes divided into?

d) 8 ar6 c)5 b)7

- 11. Would you like to have more sessions like this ?
 - 6 Yes
 - o No

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

FEEDBACK FORM DAY - 2 :

- Name of the participant and institute : <u>khadyn hasan</u>
 Name of the institute: <u>RBVRR women's college of</u> phalmacy
- 3. Email id of the participant : _____~
- 4. How was the content delivered by the speaker?
 - Excellent 0
 - & Very Good
 - o Good
 - o Average
- 5. How do you rate the session?
 - o Excellent
 - Very Good
 - o Good
 - o Average
- 6. At which part of the enzyme does the substrate fit in?
 - a) Left end
 - b) Right end
 - Active site
 - d) Binding site
- 7. The metal ions that binds the substrate and active site of the enzyme is called
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 - Catalysts are efficient at high temperatures and high pressures.
 - d) Enzymes are denatured at room temperature.
- 10. How many classes are enzymes divided into?

d) 8 c)5 316 b)7

- 11. Would you like to have more sessions like this ?
 - y Yes
 - o No

(Approved by AICTE & PCL Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

- Name of the participant and institute : <u>Shouthi vyas</u>
 Name of the institute: <u>RSVRR wrominic</u> college of phasmary
- Email id of the participant : _____
- 4. How was the content delivered by the speaker?
 - o Excellent
 - o Very Good
 - 9⁄Good
 - o Average
 - 5. How do you rate the session?
 - o Excellent
 - & Very Good
 - o Good
 - o Average
 - 6. The selection of reagent is made on basis of
 - a) Efficiency
 - b) Availability
 - c) its effect on environment

 - 7. What is Microencapsulated Lewis acid can be reused upto <u>10</u> times. 8. Enzymatic fermentation is used for production of <u>autibiotus</u>.

 - 9. When Biochemical reactions are
 - - a) Chemo selective
 - b) Regio selective
 - c) Stereo selective
 - 10. Would you like to attend more sessions like this?
 - - y Yes
 - o No

(Approved by AH 11 & PCI Affiliated to Osmania Environments)

Rathatputa Divileratead 500.627

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 0318-10th Dec 2021

- 1 Name of the participant and institute Nichath forfime. 2 Name of the institute RBORT warmen college of pharmany
- 3. Email id of the participant
- 4 How was the content delivered by the speaker?
 - o Excellent
 - Very Good
 - o Good
 - o Average
 - 5 How do you rate the session?
 - o Excellent
 - Nery Good
 - o Good
 - o Average
 - 6. The selection of reagent is made on basis of
 - a) Efficiency
 - b) Availability
 - c) its effect on environment
 - All the above رق
 - What is Microencapsulated Lewis acid can be reused upto <u>12</u> times.
 - 8. Enzymatic fermentation is used for production of Antibiotia.
 - 9. When Biochemical reactions are
 - a) Chemo selective
 - b) Regio selective
 - c) Stereo selective
 - All the above.
 - 10. Would you like to attend more sessions like this?
 - 6 Yes
 - o No

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

۱.	Name of the participant:	Sai	pragna		
	Name of the institute:			College	of pharmacy.
	Email id of the participa			q	

- 3. Email id of the participant :
- 4. How was the content delivered by the speaker?
 - a. Excellent
 - b. Very Good
 - .c. Good
 - d. Average
- 5. How do you rate the session?
 - a. Excellent
 - Very Good
 - c. Good
 - d. Average
- 6. The father of green chemistry
 - a. Born Haber
 - b. Nario Taniguchi
 - c. Richard Feynman
 - Paul T. Anastas
- Green solvents are derived from the processing of <u>Agricultural</u> crops
 Ultrasound assisted reactions generally occur in the range of ______
- - a. 20Hz to 20K Hz
 - b. Less than 20 Hz
 - 20K Hz to 10G Hz
 - d. More than 10G Hz
- 9. Which of the following is the greenest solvent?
 - a. Formaldehyde
 - b. Benzene
 - c. ethanol
 - liquid Water بل
- 10. Would you like to attend more sessions like this?
 - A. Yes
 - b. No

(Approved by AICTE & PCT: Affiliated to Osmania University)

Barkatpura Hyderabad: 500.027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

- shouthe vyar. 1 Name of the participant
- I Name of the institute REVER women's college of pharmacy.
- 3 Email id of the participant
- 4 How was the content delivered by the speaker?
 - a I scellent
 - b Very Good
 - c. Good
 - d. Average
- 5 How do you rate the session?
 - a Excellent
 - b Very Good
 - c Good
 - d. Average
- 6. The father of green chemistry
 - a. Born Haber
 - b. Nario Taniguchi
 - c. Richard Feynman
 - A. Paul T. Anastas
- Green solvents are derived from the processing of _____.
- Ultrasound assisted reactions generally occur in the range of ______
 - a. 20Hz to 20K Hz
 - b. Less than 20 Hz
 - Sec 20K Hz to 10G Hz
 - d. More than 10G Hz
- Which of the following is the greenest solvent? 9
 - Formaldehyde
 - b. Benzene
 - c. ethanol
 - d. liquid Water
- 10. Would you like to attend more sessions like this?
 - / Yes
 - b. No

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

- 1. Name of the participant : <u>C. Pragnya</u> 2. Name of the institute: <u>RBVRR</u> women's college of pharmacy-
- 3. Email id of the participant :
- 4. How was the content delivered by the speaker?
 - a/ Excellent
 - b. Very Good
 - c. Good
 - d. Average
- 5. How do you rate the session?
 - a. Excellent
 - K. Very Good
 - c. Good
 - d. Average
- 6. Which of the following source of energy can be replenished after a short period of time?
 - a. Solar energy
 - b. Hydro energy
 - c. Coal
 - both a and b.
- 7. Greenhouse effect is due to _____ layer in the atmosphere?
 - a. Ozone
 - b. Infrared
 - c. Moisture
 - d. Carbon dioxide
- 8. Which Burning of fossil fuels results in
 - a. Increased oxygen levels
 - b. Decreased greenhouse gases
 - . Increased greenhouse gases
 - d. Increased ethane level
- 9. Which of the following has maximum global warming potential?
 - A. Methane
 - b. Carbon dioxide
 - c. Nitrous oxide
 - d. Carbon monoxide.
- 10. Would you like to attend more sessions like this?
 - A. Yes
 - b. No

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

- 1. Name of the participant : _____ Hadia khanam
- 1. Name of the participant : <u>Hadia khanam</u> 2. Name of the institute: <u>RBVRR women's college of pharmany</u>
- 3. Email id of the participant : _____
- 4. How was the content delivered by the speaker?
 - a. Excellent
 - b. Very Good
 - e. Good
 - d. Average
- 5. How do you rate the session?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
- 6. Which of the following source of energy can be replenished after a short period of time?
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 - b. Hydro energy
 - c. Coal
 - Jef. Both a and b
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 - d. Carbon dioxide
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 - e. Nitrous oxide
 - d. Carbon monoxide.
- 10. Would you like to attend more sessions like this?
 - A. Yes
 - b. No

(Approved by AICTL & PCL Affiliated to Osmania University)

Barkatpura, Hyderabad- 500/027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2022

FEEDBACK FORM DAY - 6

1	Name of the participant: Guddam grynthis
2.	Name of the institute: +bvvrwcop
3.	Email id of the participant :
4.	How was the content delivered by the speaker?
	a. Excellent
	b. Very Good
	c. Good
	d. Average
5.	How do you rate the session?
	a/ Excellent
	b. Very Good
	c. Good
	d. Average
6.	What are cofactors?
	A nonproting compound & small organic and
	in Dramin moleinle.

- inorganie molecule.
- 7. Which of these enzymes are not proteinaceous?
 - a. Kinases
 - b. Endonucleases
 - c. Ligases
 - d. Ribozymes
- 8. Which enzyme is used in the production of sitagliptin?
 - a. Ligases
 - b. Isomerases
 - Fransaminases
 - d. Transferases
- 9. Enc-reductore are used to reduce activated alkene bonds in chiral fashion.

10. Would you like to attend more sessions like this?

- a. Yes
- b. No
- c. Maybe

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Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

FEEDBACK FORM DAY – 6

1. Name of the participant: Zebe fatime
2. Name of the institute: ROVER WCOP
3. Email id of the participant :
4. How was the content delivered by the speaker?
a. Excellent
by Very Good
c. Good
d. Average
5. How do you rate the session?
A. Excellent
b. Very Good
c. Good
d. Average
6. What are cofactors? <u>An organic & inorganic molecules helps in biomodecular</u> <u>trempormation</u>
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- 7. Which of these enzymes are not proteinace
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 - b. Endonucleases
 - c. Ligases
 - A. Ribozymes
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 - a. Ligases
 - b. Isomerases
 - . Transaminases

9. <u>Reductases</u> are used to reduce activated alkene bonds in chiral

fashion.

10. Would you like to attend more sessions like this?

a. Yes b. No A Maybe



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Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2021

FEEDBACK FORM DAY – 7

1. Name of the participant: T. Variha 2. Name of the institute: rbvwwcop. 3. Email id of the participant : / -4. How was the content delivered by the speaker? a. Excellent b. Very Good c. Good d. Average 5. How do you rate the session? a. Excellent b. Very Good c. Good d. Average 6. What is a catalyst? The substance which allers the speed of chemical reaction.

7. Nanomaterial's are the materials with at least one dimension measuring less than?

- a. 1nm
- b. 10nm
- s. 100nm
- d. 1000nm.
- What are different dopants used for ceria
 - a. Zr4+
 - b. Hf4+
 - c. Ti⁴⁺
- 9. Which gas combines with the haemoglobin and hinders the oxygen transport
- - a. Carbon dioxide Carbon monoxide
 - c. SO₂
 - d. N₂O

10. Would you like to attend more sessions like this?

- Jr. Yes
- b. No

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Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 03rd-10th Dec 2022

FEEDBACK FORM DAY - 7

1. Name of the participant: Brunda Seree

2 Name of the institute: 2 bress weep

- 3 Email id of the participant :
- 4 How was the content delivered by the speaker?
 - a Excellent
 - b. Very Good
 - c. Good
 - d. Average
- 5. How do you rate the session?
 - a. Excellent
 - J. Very Good
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7TH-12TH March 2022

RBVRR Womens college of

pharmacy - SEMINAR HALL

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India Office: +91 40-27563065, Mobile: +91 9848930555 (Approved by the AICTE, PCI & Affiliated to Osmania University) Recognized under Section 2(f) of the UGC Act 1956 EAMCET Code: RBVW | PGECET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcoph@rediffmail.com & rbvrrwcp2006@gmail.com

Certificate Course on REGULATORY AFFAIRS



INAUGURAL SESSION: Dr. A. Krishna Shailaja

Prof. Head of Dept of Pharmaceutics, RBVRR Womens college of pharmacy

Patron Prof. K. Muthyam Reddy Hon. Secretary cum correspondent **RBVRR Women's College of pharmacy** CONVENER Prof. M. Sumakanth Principal RBVRR Women's College of pharmacy

SPEAKERS	DATE & TIME
 Dr. A. Krishna Sailaja Professor & Head, Dept. of Pharmaceutics, RBVRR Women's College of Pharmacy 	7 TH March 2022 & 8 th March 2022 at 2.00 pm
2. Raju Bhupathi Raja IP Attorney, Hyderabad	9 TH March 2022 & 10 th March 2022 at 2.00 pm
 Dr. Priya Anish Mathews Scientist E, Project Monitoring & IPR Cell ARCA, Hyderabad 	11 TH March 2022 & 12 th March 2022 at 2.00 pm



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Value Added Course		
Course: Certificate course in Pharmaceutical Regulatory affairs		
Code: PRA C001Credits: 2Total No. of Hours : 36		

CERTIFICATE COURSE IN PHARMACEUTICAL REGULATORY AFFAIRS

Regulatory affairs is a profession developed from the desire of governments to protect public health by controlling the safety and efficacy of products in areas including pharmaceuticals, veterinary medicines, medical devices, pesticides, agrochemicals, cosmetics and complementary medicines, and by the companies responsible for the discovery, testing, manufacture and marketing of these products wanting to ensure that they supply products that are safe and make a worthwhile contribution to public health and welfare.

COURSE OBJECTIVES

The course is designed to teach all the regulations and rules of the industry. The curriculum of the certification is designed as a comparative analysis of Pharma regulatory systems of different nations integrated with concrete management tools of the supply chain like, Certification schemes, Regulatory compliance with government guidelines, product approval procedures etc. The study resources have been carefully designed to introduce the participant to various aspects and basics of industrial applications, its need, and benefits in assuring quality production.

SYLLABUS

Unit 1	Overview of regulatory affairs	6 Hours
Introduction	n to Global Regulatory Authorities in Pharmaceuti	cal Industries, Drug
Development Process, Regulatory Toxicology GMP and other good practices Introduction and		
the need for intellectual property right (IPR) - Kinds of Intellectual Property Rights: Patent,		
Copyright, Trade Mark, Design, Geographical Indication, Plant Varieties and Layout Design		

Unit 2	Pharmaceutical Industry and IPR	8 Hours	
IPR in Indi	IPR in India : Genesis and development - IPR in abroad - Major International Instruments		
concerning	concerning Intellectual Property Rights: Paris Convention, 1883, the Berne Convention, 1886,		
the Univers	the Universal Copyright Convention, 1952, the WIPO Convention, 1967, the Patent		
Co-operation Treaty, 1970, the TRIPS Agreement, 1994			
Patents - El	ements of Patentability: Novelty, Non Obviousness (Inve	ntive Steps), Industrial	
Application	- Non - Patentable Subject Matter - Registration Procedur	e, Rights and Duties of	
Patentee, Assignment and licence, Restoration of lapsed Patents, Surrender and Revocation of			
Patents, Inf	ringement, Remedies & Penalties – Patent office and App	pellate Board	

Unit 3	ICH and WHO guidelines	6 Hours
A compreher	sive training on the integrated implementation of Q8, Q9 and	d Q10 in pharmaceutical
development	and manufacturing, regulatory assessment, scale up	, implementation into
commercial	manufacturing operations and GMP-inspection. A specifi	ic case study was used
demonstratin	g opportunities when using the combination of Q8, Q9,	Q10. A comprehensive
training on	regulatory aspects (regulatory expectations, dossier prepa	ration, assessment and
GMP-inspec	tions) in addition to technical development and manufacturi	ng details

Unit 4	Dossier preparation in CTD format, eCTD 6 Hours	
	submissions and drug registration	
It aims to	introduce tools to assist the participants in formulating effective strategies in the	
developme	development, compilation, and submission of US-compliant eCTDs Market authorization &	
electronic	submission in major markets. Market authorization & submission in ROW markets	
(GCC, Africa), Dossier preparation in CTD Format, eCTD Submissions, Drug Registration in		
African Co	ountries, Drug Registration in Gulf countries	

Unit 5	AYUSH Regulatory Affairs and Industry Based Case 8 Hours	
	Studies	
Introduction to GMP and Traditional Systems of Medicine, importance of quality control and		
standardization of ayurvedic, siddha, unani and homeopathic systems of medicines of global		
acceptability. The source and quality of raw materials, storage, post-harvest handling and		
manufacturing process and stability studies, GMP requirements for AYUSH (International		
perspective)		
Industry Ba	ased Case Studies	

Regulatory Course Outcomes:

After completion of this course

- After completion of the programme, participant is expected to have in-depth knowledge and understanding of concept of generic drug and innovator, drug discovery and development, Regulatory strategy, approval process of all regulatory filings in various countries,
- Students are thorough with the procedures and requirements and assist the participants in formulating effective strategies in the development, compilation, and submission of UScompliant eCTDs
- 3) This certification focuses on Good Manufacturing Practices (GMP), and to implement sensitive and practical analytical methods for standardization and quality control.
- Participants may develop interdisciplinary knowledge and gain knowledge in filing process of IND, NDA and ANDA, IMPD, and Investigator Brochure (IB), DMF, US Hatch-Waxmn Act and code of federal regulations (CFR),
- 5) Participants will be exposed to global developments in the field of traditional systems based drugs; quality, safety and efficacy concern of the international community; and ways and methods to improve their manufacturing processes and techniques to assess quality of their products using modem techniques of analysis.



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FEEDBACK FORM DAY 1

1. Name of the participant: Amound Alekhya

2. Name of the institute: RBVRR WCOP

3. Email address: A mand 111 @ gmall. com.

4. How was the content delivered by the speaker.

excellent

very good

Good

5. How do you rate the session

excellent

very good

🗆 Good

6. Which type of intellectual property right protects inventions, providing exclusive rights for a limited period?

A) Patent

B) Copyright

C) Trade Mark

D) Design

7.Copyright primarily protects: A) Inventions and discoveries B) Literary, artistic, and musical works C) Brand names and logos

D) Industrial designs

8.A trademark is a distinctive sign that identifies:

A) A product or service

B) A manufacturing process

C) A copyrighted work

D) An invention

9.Geographical Indication (GI) tags are primarily used to:

A) Protect plant varieties

B)Protect traditional knowledge

C) Indicate the origin of goods

D) Register trade secrets



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FEEDBACK FORM DAY 1

1. Name of the participant: Buyan Jejanree

2. Name of the institute: REVRR WICOP

3. Email address: . rejassee @ gmail . Com .

4. How was the content delivered by the speaker ...

#excellent

□ very good

□ Good

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PGECET Code: RBVW1 EAMCET Code: RBVW 1

Certificate course on IPR Regulatory Affairs

F.

FEEDBACK FORM DAY 2

1. Name of the participant: D. T Keitshna SI njitha

2.Name of the institute: RBVRR WCOP

3. Email address." DT Kerishar 10 @ gmail lom

4. How was the content delivered by the speaker ...

□ excellent

very good

Good

- 5. How do you rate the session
- □ excellent
- Pvery good
- □ Good

6.What is the primary purpose of obtaining a patent?

A) To protect a product's brand name

 \mathcal{A}) To prevent others from making, using, or selling an invention

C) To register a copyrighted work

D) To secure a trade secret

7.What is one of the primary requirements for a patent to be granted?

a) Novelty

b) Simplicity

c) Popularity

d) Flexibility

8. What is the term used to describe the requirement that an invention must not be obvious to a person skilled in the relevant field?

- a) Complexity
- b) Ingenuity

Non-obviousness

d) Commonality

9. Which of the following is NOT a requirement for patentability?

a) Industrial Application

b) Uniqueness

A) Novelty

d) Non-obviousness



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Certificate course on IPR

Regulatory Offairs

FEEDBACK FORM DAY 2

1. Name of the participant: Granparaju Vaishnau

2. Name of the institute: Naishraus 6 @gmail. com

3.Email address: RF.VRKWOCP

4. How was the content delivered by the speaker.

□ excellent

very good

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Certificate course on IPR Regulatory Affairs

FEEDBACK FORM DAY 3

1. Name of the participant: Lak kakula Sravon the 2. Name of the institute: KBVRRWCOP

3. Email address: Sravanthille gmail . Com.

4. How was the content delivered by the speaker ...

excellent

very good

Good

5. How do you rate the session

excellent

very good

□ Good

6.What is the primary purpose of copyright law?

To protect ideas

b) To protect tangible expressions of ideas

c) To promote fair competition

d) To prevent creativity

7. Which of the following works is NOT eligible for copyright protection?

a) Literary works

b) Musical compositions

c) Ideas or concepts

d) Computer programs

8.What is the duration of copyright protection for works created by an individual author in most countries?

a) Lifetime of the author plus 50 years

b) Lifetime of the author plus 70 years

c) 50 years from the date of creation

d) 70 years from the date of creation

9. Which of the following rights is NOT typically granted to copyright holders?

a) The right to reproduce the work

b) The right to distribute copies of the work

C) The right to perform the work publicly

d) The right to patent the work.



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EAMCET Code: RBVW

PGECET Code: RBVW1 & Regulatory Affairs

Certificate course on IPR

FEEDBACK FORM DAY 3

1. Name of the participant: Mandhaera Monalisa

2. Name of the institute: RBVRRWCDP

3. Email address: Monalisa @ gmouls 10m

4. How was the content delivered by the speaker ...

excellent

ervery good

🗆 Good

5. How do you rate the session

excellent

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Good

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FEEDBACK FORM DAY 4

1. Name of the participant: Moguloo airs ai Sowmya. 2. Name of the institute: RBVRK WCOP

3. Email address: Soi mm 100 gmail . Com

4. How was the content delivered by the speaker ...

□ excellent

very good

□ Good

5. How do you rate the session

□ excellent

very good

Z Good

6. What is the primary purpose of a trademark?

a) To protect inventions

b) To protect tangible expressions of ideas

c) To identify the source of goods or services

d) To prevent competition

7. Which of the following is NOT a type of trademark?

a) Word mark

b) Logo mark

c) Sound mark

d) Trade secret mark

8. What does the [™] symbol typically indicate when used with a trademark?

a) That the trademark is registered with the government

/b) That the trademark is being used with permission

c) That the trademark is pending registration or is claimed by its owner

d) That the trademark is in the public domain

9. Which of the following is NOT a requirement for trademark protection?

a) Originality

- b) Distinctiveness
- c) Genericness

d) Uniqueness



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EAMCET Code: RBVW 1 PGECET Code: RBVW1

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FEEDBACK FORM DAY 4

1. Name of the participant. Mubassheya Maham 2. Name of the institute: RBV RRW LOP

3. Email address: Maham 212 @gmail . Com

4. How was the content delivered by the speaker ...

□ excellent

□ very good

Good

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Certificate course on IPR Regulatory Plains

FEEDBACK FORM DAY 5

1. Name of the participant: Naug and la Vasavi 2. Name of the institute: RONRE WCOP

- 3 Email address: Vacani 20 @ g mail . Com
- 4. How was the content delivered by the speaker ...
- excellent
- very good
- □ Good
- 5. How do you rate the session
- □ excellent
- very good
- Good

6. What does Layout Design protection refer to?

- a) Protection of the aesthetic elements of a website
- b) Protection of the arrangement of integrated circuits
- C) Protection of architectural designs
- d) Protection of typography and font designs

7. What is the procedure for registration of Layout Designs?

a) Filing an application with the World Intellectual Property Organization (WIPO)

- b) Filing an application with the International Bureau of Intellectual Property (IBIP)
- of Filing an application with the national intellectual property office
- d) Filing an application with the United Nations Office for Outer Space Affairs (UNOOSA)
- 8. What is the effect of registration of Layout Designs?
- a) Immediate protection worldwide
- b) Exclusive rights to reproduce and distribute the layout design
 - c) Protection against any use of the layout design, regardless of intent
 - d) Protection for a limited time without renewal.
 - 9. What is the term of protection for Layout Designs?
 - a) 10 years from the date of registration
- (b) 15 years from the date of registration
 - c) 20 years from the date of creation
 - d) Lifetime protection for the creator



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Certificate course on the Regulatory Affairs

FEEDBACK FORM DAY 5

1. Name of the participant: Naz kuda Manisha 2. Name of the institute: ROVER WCOP

3. Email address: MRnisha 140 gmail . Com

4. How was the content delivered by the speaker ...

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Certificate course on IPR Regulatory Affeirs

FEEDBACK FORM DAY 6

1. Name of the participant: Palle Annie Jeausha

2.Name of the institute: RBURR WCOP

3. Email address: Annie @ gmail . lom

4. How was the content delivered by the speaker ...

excellent

- □ very good
- □ Good
- 5. How do you rate the session
- □ excellent
- very good
- □ Good

6. What is the main difference between Geographical Indication (GI) and trademarks?

a) GI protects product names, while trademarks protect geographical locations

b) GI indicates the origin of a product, while trademarks indicate the source of goods or services

c) GI protects inventions, while trademarks protect artistic creations

d) GI is only applicable to agricultural products, while trademarks apply to all industries

7. What is the procedure for registering a Geographical Indication in India?

Filing an application with the Indian Patent Office

b) Filing an application with the Indian Trademark Registry

c) Filing an application with the Geographical Indications Registry

d) Filing an application with the Indian Copyright Office

8. What is the effect of registration of a Geographical Indication?

a) It grants exclusive rights to use the geographical indication to the registrant

t prevents anyone from using the geographical indication, even if they were using it before الرطر registration

c) It allows for the geographical indication to be used by anyone without restrictions

d) It provides protection for an unlimited duration

9. What is the term of protection for a registered Geographical Indication in India?

a) 10 years from the date of registration

- b) 15 years from the date of registration
- c) 20 years from the date of registration

d) Indefinite protection, as long as the conditions are met



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Certificate course on HPR Regulatory Affairs

FEEDBACK FORM DAY 6

1. Name of the participant: Papp isudoly lahari 2. Name of the institute: RBWRR WCOP

3. Email address: Lahari 11 (gmail Com

4. How was the content delivered by the speaker..

□ excellent

Very good

□ Good

5. How do you rate the session

□ excellent

very good

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c) 20 years from the date of registration

d) Indefinite protection, as long as the conditions are met



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 EAMCET Code: RBVW | PGECET Code: RBVW1



REPORTS



Two-week certificate course on

"Advance Analytical Techniques"

 05^{th} april 2022- 15^{th} april 2022



Mr. M. Soundarapandian,

Assistant Director, Clearsynth Pvt, ltd, Hyderabad.

FOR QUERIES:

Contact-

- 1. D.Sowjanya (9494800885)
- 2 P. Kavya (8919889059)

Registration details:

Free Registration

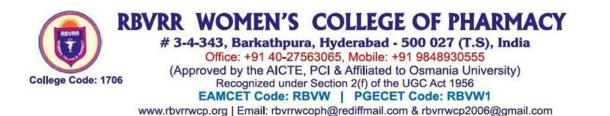
Last date to register: 03rd april 2020

SCHEDULE

DAY	DATE	SPEAKER	TOPIC
DAY 1&2	4 rd & 6 th April 2022	Mr. M. Soundarapandian, Assistant Director, Clearsynth Pvt, ltd, Hyderabad.	Advancements in Chromatography
Day 3&4	7 th & 8 th April 2022	Mr. A Venkata Rao Manager, LC-MS Department, Aurobindo Pharma Ltd, Hyderabad.	LC-MS & GC-MS
DAY 5&6	9 th & 11 th April 2022	Dr. K. Bhavya Sri, Associate Professor, Head, Dept of Pharma Analysis, RBVRR Womens College	Analytical Method Validation
Day 7&8	12 ^{7th} & 13 th April 2022	Mr. Lalit kumar, Research Associate-IV, Aurobindo LTD, Hderabad	X- Ray Diffraction
Day 9&10	14 th & 15 th April 2022	Industrial Visit; Mr. B. Sreekanth, AGM, HeadQuality Assurance, Caponex Labs Pvt Ltd, Hyderabad.	Inductive Coupled Plasma with Mass Spectroscopy.

Day 1&2: Introduction to the programme (overview), welcoming principal mam and Speaker on to diase (giving bouquet), Inauguration, lightening of light, prayer song by students, principal mam addressing the gathering, giving introduction to speaker, at the end momento and vote of thanks

- **Day 3&4:** welcome to day 3 and 4 Session, welcoming the speaker and introduction to speaker and session starts and at the end momento & vote of thanks.
- **Day 5&6**: welcome to day 5 and 6 Session, welcoming the speaker and introduction to speaker and session starts and at the end momento & vote of thanks.
- **Day 7&8**: welcome to day 7 and 8 Session, welcoming the speaker and introduction to speaker and session starts and at the end momento & vote of thanks.
- Day 9 &10: welcome to day 9 and 10 Session, welcoming the Guest and introduction and session starts with industrial visit



Value Added Course		
Course: Advance Analytical Techniques		
Code:AATCC004 Credits:2 Total No.of Hours:36		Total No.of Hours:36

The aim of conducting this certificate course is to impart advanced knowledge on the principles and instrumentation of spectroscopic and chromatographic hyphenated techniques. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing in Analytical and Bioanlytical laboratories

Objectives:-Objectives:- The Course Program in Advance Analytical Techniques is designed to provide participants with a comprehensive understanding of Analytical tools available and their advancements for the analysis of pharmaceutical products

SYLLABUS

Unit 1	Spectroscopic Techniques and their Advancements	8 Hours	
NMR Spec	NMR Spectroscopy:-Quantum numbers and their role in NMR, Principle, Instrumentation,		
Solvent requirement in NMR, Relaxation process, NMR signals in various compounds,			
Chemical shift, Factors influencing chemical shift, Spin-Spin coupling, Coupling constant,			
Nuclear magnetic double Resonance, Spin Spin and spin lattice relaxation phenomenon.			
1D- NMR and 13CNMR.			
Mass Spectroscopy:-Principle, theory, instrumentation of mass spectrometry, different types			
of Ionizatio	n Techniques like Electron Impact, Chemical, Field, FA	AB and MALD, APCI,	
ESI, APPI, I	Mass fragmentation mechanism and its rules, meta stable io	ons, isotopic peaks and	

applications of mass spectrometry.

Unit 2Chromatographic Techniques and their Advancements6 Hours

Principle, Instrumentation and Pharmaceutical applications:- HPLC,UPLC, Nano LC, HILIC, GC, SFC

Unit 3	Hyphenated Techniques	6 Hours
Principle, Instrumentation, Interfaces, Pharmaceutical applications:- LC-MS,GC-MS,ICP-MS,		
Tandem Mass systems		

Unit 4 X-ray Crystallography		4 Hours
Production of X rays, Different X ray methods, Bragg's law, Rotating crystal technique, X		
ray powder	technique, Types of crystals and applications of X-ray diffr	action

Unit 5	Qualification of Analytical Instruments	6 Hours
NMR, MS, HPLC, UPLC, X-ray diffraction		

Advance Analytical Techniques Course Outcomes:

After completion of this course

- The students will get adequate knowledge on recent advancement and basics of NMR and MS.
- 2) Students will know the principle and advanced applications of Nano LC, UPLC and HILIC.
- 3) Students aware of different hyphenated techniques like ICP-MS, LC-MS GC-MS etc.
- 4) Students are permitted to know in detail about the X- ray crystallography methods and application.
- 5) Students are familiar with the methods used for calibration and validations of Instruments



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www.rbvrrwcp.org | Email: rbvrrwcoph@rediffmail.com & rbvrrwcp2006@gmail.com

CERTIFICATE COURSE ON QUALITY BY DESIGN IN FORMULATION DEVELOPMENT

7th-11th April,2022 RBVRR Womens college of pharmacy SEMINAR HALL



Patron Prof. K. Muthyam Reddy Hon. Secretary cum correspondent RBVRR Women's College of pharmacy INAUGURAL SESSION: Dr. A. Krishna Sailaja Professor & Head, Dept. of Pharmaceutics, RBVRR Women's College of Pharmacy

> CONVENER Prof. M. Sumakanth Principal RBVRR Women's College of pharmacy

SPEAKERS	DATE & TIME
1. Dr. A. Krishna Sailaja Professor & Head, Dept. of Pharmaceutics, RBVRR Women's College of Pharmacy	7 [™] April 2022 & 8 [™] April 2022 at 2.00 pm
2. Dr. G. Uma Rani Associate Professor, Dept. of Pharmaceutics, RBVRR Women's College of Pharmacy	9 [™] April 2022 & 10 [™] April 2022 at 2.00 pm
3. Dr. K.V. Ratnamala Associate Professor, Dept. of Pharmaceutics, RBVRR Women's College of Pharmacy	11 [™] April 2022 & 12 [™] April 2022 at 2.00 pm



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Value Added Course				
Course: Certificate course on quality by design in formulation				
development				
Code: QBD C001	Credits: 2	Total No. of Hours : 36		

This certification will provide insight into the key principles of QbD covering quality risk management and formal experimental design. The certification is intended as continuing professional development (CPD) for professionals in the pharmaceutical industry, particularly in production, regulatory affairs and quality functions. The certification will offer an excellent introduction for those less familiar with QbD and provide new ideas on how to further implement the QbD concept in research. The case study based approach in certification programme is designed for working professionals in full time employment who want to update their knowledge and gain required skills and attitude in the area in order to become a certified GMP professional in the domain. This certification is also beneficial for professionals from different streams to help them intensify their knowledge. This is an advanced certification having rigorous case studies based methodology throughout the duration.

Objectives:- Objectives:- The Course Program in Quality by design in formulation development is designed to provide participants with a comprehensive understanding of the various aspects of QbD, such as Quallity test product performance, Critical quality attributes, Critical process parameters. QbD tools and studies include prior knowledge, risk assessment, mechanistic models, design of experiments (DoE) and data analysis, and process analytical technology (PAT). including patents, copyrights, trademarks, trade secrets, and Industrial Designs

SYLLABUS

Unit 1 Overview of QbD	8 Hours
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Introduction and the need for QbD in formulation development- objectives of QbD, Various components of QbD such as Quality test product performance, Identification of critical process parameters. Ctitical quality attributes, Critical manufacturing attributes in formulation development, risk assessment, risk management. The concept of Design of experiments, Factorial design in formulation optimization. How the DoE fit into the QbD concept.

Unit 2	Introduction to QTPP	8 Hours	
Quality Target Product Profile that Identifies the Critical Quality Attributes of the Drug Product			
QTPP is a pr	rospective summary of the quality characteristics of a drug	product that ideally will	
be achieved	to ensure the desired quality, taking into account safety a	and efficacy of the drug	
product. QT	product. QTPP forms the basis of design for the development of the product. Considerations for		
inclusion in the QTPP could include the following Intended use in a clinical setting, route of			
administration, dosage form, and delivery system(s)Dosage strength(s),Container closure			
system, Therapeutic moiety release or delivery and attributes affecting pharmacokinetic			
characteristics (e.g., dissolution and aerodynamic performance) appropriate to the drug product			
dosage form being developed, Drug product quality criteria (e.g., sterility, purity, stability, and			
drug release)	appropriate for the intended marketed product		

Unit 3	QbD Methodology and its Implementation		6 Ho	6 Hours					
Elements of QbD, Importance of Critical Process parameters in formulation optimization,			zation,						
Critical Material attributes and its significance in optimization process. Selection of Critical									
quality att	ributes in vari	ious dosage	forms.	Regulatory	and	Industry	views	on	QbD,
Scientifical	y based example	les of applica	tion of (QbD.					

Unit 4	ICH Q8 Guidelines and factorial design	8 Hours

Introduction to ICHQ8 Guidelines, risk management and risk analysis.Concept of optimization, optimization parameters, Screening techniques and optimization techniques. Factorial design, 2 level and 3 level factorial design, Formulation of various dosage forms such as microemulsions, Nanoparticles by applying factorial design. Statistical modeling in Pharmaceutical research and development: Descriptive versus Mechanistic Modeling, Population modeling sensitivity analyis

Unit 5	Controlling strategy and product life cycle management 6 Hours			
Design				
Introduction to ICH Q10, A control strategy for input material controls, process controls and				
monitoring, design space around individual or multiple unit operations, and/or final product				
specifications which ensure consistent quality. Testing of finished drug products for quality by				
assessing their specifications. A QbD based control strategy for various dosage forms such as				
tablets, capsules and novel drug delivery systems				

ObD Course Outcomes:

After completion of this course

- The students will get adequate knowledge on concepts and applications of QbD, objectives, the QbD approach in formulation development
- Students are thorough with the implementation of QbD in formulation development, method development, and manufacturing
- Students Gain knowledge regarding identification of Critical Process parameters, Critical quality attributes and critical material attributes.
- 4) Participants may develop knowledge regarding risk identification, risk analysis and risk reduction

5) Participants develop knowledge on QbD based control strategy for various dosage forms as tablets, capsules and novel drug delivery systems



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Certificate course on quality by design in formulation development

FEEDBACK FORM DAY 1

Harshitha 1.Name of the participant of 1. 2.Name of the institute: RBVRF 3. Email address: harshitha 100@9. Mail Com 4. How was the content delivered by the speaker. excellent very good Good 5. How do you rate the session □ excellent □ very good Good 6. What is the primary objective of Quality by Design (QbD) in pharmaceutical formulation development? Maximizing production efficiency B) Minimizing regulatory scrutiny C) Enhancing product quality and performance D) Reducing research and development costs 7. Which regulatory agency emphasizes the implementation of Quality by Design (QbD) principles in pharmaceutical development? A) Food and Drug Administration (FDA) B) European Medicines Agency (EMA) C) World Health Organization (WHO) D) All of the above 8. What is the primary focus of QbD in the pharmaceutical industry? A) Speeding up the development process B) Achieving maximum product yield C) Ensuring consistent product quality D) Reducing manufacturing costs 9.In QbD, what does the acronym CPP stand for?

A Critical Pathway Parameters

B) Critical Production Processes

C) Critical Product Properties

D) Critical Process Parameters



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FEEDBACK FORM DAY 1
1. Name of the participant (nangula Spilatha
2. Name of the institute: RBNRP WCOP
3. Email address: Janguela 1070 6 g mail com
4. How was the content gelivered by the speaker.
🗆 excellent
u very good
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5. How do you rate the session
excellent very good
Cood
6. What is the primary objective of Quality by Design (QbD) in pharmaceutical formulation development?
Maximizing production efficiency
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FEEDBACK FORM DAY 2

$\mathbf{N} \rightarrow \mathbf{A}$
1. Name of the participant: Hadia Anjum
2. Name of the institute: R.BNRR WCOY
3. Email address: Anjum 2004 0 g-mail com
4. How was the content delivered by the speaker
🗆 excellent
Trery good
🗆 Good
5. How do you rate the session
🗆 excellent
very good

□ Good

6. What does QTPP stand for in pharmaceutical development?

A) Quality Testing Product Protocol

B) Quality Target Product Profile

C) Quantitative Testing Process Plan

D) Quality Target Process Parameters

7. Which of the following best describes the purpose of QTPP?

A) To define the quality control procedures for manufacturing

B) To establish the target price for the pharmaceutical product

To identify the critical quality attributes (CQAs) of the product

D) To specify the timeline for regulatory submissions

8. Who is primarily responsible for defining the QTPP?

A Regulatory authorities

B) Marketing department

C) Quality control team

D) Cross-functional development team

9. What role does the QTPP play in the pharmaceutical development process?

A) It guides formulation optimization techniques.

B) It determines the patentability of the product.

C) It dictates the manufacturing location.

D) It sets the schedule for clinical trials.



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FEEDBACK FORM DAY 2

1. Name of the participant Kagerahe Rajine 2. Name of the institute: RBVRR W COP 3.Email address: Nojule 4.How was the content delivered by the speaker. excellent very good Good 5. How do you rate the session excellent □ very good Good 6. What does QTPP stand for in pharmaceutical development? A) Quality Testing Product Protocol B) Quality Target Product Profile C) Quantitative Testing Process Plan

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FEEDBACK FORM DAY 3

1. Name of the participant Kamali Larrary a

2 Name of the institute: RBVRR WCOPV

3. Email address: Ramali 009 @gonail.com

- 4. How was the content delivered by the speaker ...
- excellent
- Very good
- $\square \ Good$
- 5. How do you rate the session
- excellent
- Very good
- \square Good

6. What is the primary objective of the Quality by Design (QbD) methodology in pharmaceutical development? A) Maximizing production efficiency

B) Minimizing regulatory scrutiny

C) Enhancing product quality and performance

D) Reducing research and development costs

7. Which of the following is NOT a key component of QbD methodology?

A) Design of Experiments (DoE)

B) Kisk assessment and management

C) Trial-and-error experimentation

D) Quality risk management

8. What is the role of Design of Experiments (DoE) in QbD implementation?

A) To reduce the need for experimentation

To explore the design space and optimize formulations

C) To eliminate the need for risk assessment

D) To establish regulatory compliance

9. Which regulatory agency emphasizes the use of QbD in pharmaceutical development?

A) World Health Organization (WHO)

(D) European Medicines Agency (EMA)

- C) International Conference on Harmonization (ICH)
- D) Food and Drug Administration (FDA)



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FEEDBACK FORM DAY 3

1. Name of the participant: Mazigini Agichana 2. Name of the institute: RBV RRIW COT 3. Email address: archana 4604 @gonail. Com.

4. How was the content delivered by the speaker ...

Dexcellent

□ very good

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5. How do you rate the session

Cxcellent

□ very good

Good

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FEEDBACK FORM DAY 4

1.Name of the participant N.Q.ZM20.1. Kausaa 2.Name of the institute: R.B.N.R.R. W.C.O.P. 3.Email address: Kausaa 4 2.466 Q.g. Mail: com 4.How was the content delivered by the speaker.. • excellent • very good 5. How do you rate the session • excellent • very good • Good

6. What is the primary purpose of ICH Q8 guidelines in pharmaceutical development?

A) To establish quality control procedures

B) To optimize manufacturing processes

C) To facilitate regulatory submissions

D) To promote the implementation of Quality by Design (QbD) principles

7. Which of the following is NOT a key element of the ICH Q8 guidelines?

A) Quality Target Product Profile (QTPP)

B) Design Space

- C) Critical Quality Attributes (CQAs)
- D) Traditional trial-and-error experimentation

8. What is the main advantage of using factorial design in pharmaceutical development?

A) It reduces the need for experimentation

B) It allows for the exploration of multiple factors simultaneously

C/It simplifies regulatory submissions

D) It eliminates the need for risk assessment

9.In factorial design, what does each factor represent?

A) A critical quality attribute (CQA)

B) A critical process parameter (CPP)

CAn independent variable being studied

D) A dependent variable being optimized



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FEEDBACK FORM DAY 4 1.Name of the participants 0.0 2.Name of the institute BNV 3.Email address: Vasarth 2003 @ gamil. com 4. How was the content delivered by the speaker .. excellent Very good Good 5. How do you rate the session excellent Very good 🗆 Good 6. What is the primary purpose of ICH Q8 guidelines in pharmaceutical development? ALTO establish quality control procedures B) To optimize manufacturing processes C) To facilitate regulatory submissions D) To promote the implementation of Quality by Design (QbD) principles 7. Which of the following is NOT a key element of the ICH Q8 guidelines? A) Quality Target Product Profile (QTPP) B) Design Space C) Critical Quality Attributes (CQAs) D) Traditional trial-and-error experimentation 8. What is the main advantage of using factorial design in pharmaceutical development? A) It reduces the need for experimentation By It allows for the exploration of multiple factors simultaneously C) It simplifies regulatory submissions D) It eliminates the need for risk assessment 9.In factorial design, what does each factor represent? A) A critical quality attribute (CQA) B) A critical process parameter (CPP)

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FEEDBACK FORM DAY 5

1.Name of the participant: N.C. 2.Name of the institute: RRV.F a Sai Nand 3. Email address: Mandini 2989 0 gmai 4. How was the content delivered by the speaker. excellent □ very good Good 5. How do you rate the session Dexcellent □ very good Good 6. What is the primary objective of controlling strategy in product life cycle management? A) Maximizing production efficiency B) Minimizing regulatory scrutiny C Ensuring consistent product quality D) Reducing research and development costs 7. Which of the following is NOT a key aspect of controlling strategy? A) Monitoring process parameters B) Implementing corrective actions C) Maximizing profit margins D) Conducting risk assessments 8. What role does statistical process control (SPC) play in controlling strategy? ArIdentifying potential market opportunities B) Monitoring and controlling manufacturing processes C) Determining product pricing strategies D) Conducting market research 9. How does product life cycle management contribute to controlling strategy? A) By extending the patent life of the product B) By optimizing production schedules C) By identifying opportunities for product improvement

DTBy reducing the need for regulatory compliance



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FEEDBACK FORM DAY 5

1. Name of the participant: Uliale Samik 2. Name of the institute: RBYRR WCOP

3.Email address: Somiksha. O.g. mail: Com 4.How was the content delivered by the speaker.

□ excellent

□ very good

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5. How do you rate the session

□ excellent

□ very good

Good

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Certificate course on quality by design in formulation development

FEEDBACK FORM DAY 6

1.Name of the participant: UN00 2. Name of the institute: RBV.R.R. W.C.O.P. 3. Email address: Indul 9 Mail- com 4. How was the content delivered by the speaker .. excellent very good □ Good

5. How do you rate the session

□ excellent

very good

- Good

6 What does ICH Q10 stand for?

A) International Conference on Harmonization Quality 10

B) Integrated Communication Hub Question 10

C) International Council for Harmonization Quality 10

D) Integrated Quality Management.

7. What is the primary objective of ICH Q10?

A) To develop new pharmaceutical products

B) To establish guidelines for clinical trials

C) To provide guidance on quality management systems for pharmaceutical manufacturing

D) To regulate drug pricing.

8. Which of the following is NOT a key element of the ICH Q10 model?

A) Quality risk management

B) Quality control

Continual improvement

D) Process performance and product quality monitoring system

9. What is the purpose of the "Pharmaceutical Quality System" in ICH Q10?

A) To ensure compliance with regulatory agencies

B) To identify and mitigate risks to product quality

C) To establish pricing strategies for pharmaceutical products

D) To conduct market analysis



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Certificate course on quality by design in formulation development

FEEDBACK FORM DAY 6

1. Name of the participant, Pentela Mohana Lakshni 2. Name of the institute: REVRE WCOP 3. Email address: Lakshni 40506 gmail com 4. How was the content delivered bud

4. How was the content delivered by the speaker ..

□ excellent

very good

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5. How do you rate the session

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very good

□ Good

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INAUGURAL SESSION:

Prof. Head of Dept of

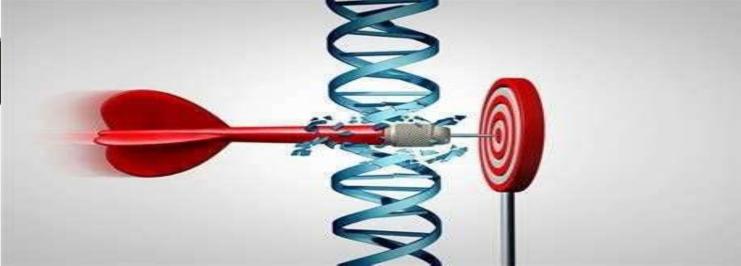
college of pharmacy

Dr. A. Krishna Shailaja

Pharmaceutics, RBVRR Womens

www.rbvrrwcp.org | Email: rbvrrwcoph@rediffmail.com & rbvrrwcp2006@gmail.com

CERTIFICATE COURSE on TARGETED DRUG DELIVERY SYSTEM



Date and Time: 6TH - 11TH JUNE ,2022 RBVRR Womens college of pharmacy - SEMINAR HALL

> Patron Prof. K. Muthyam Reddy Hon. Secretary cum correspondent RBVRR Women's College of pharmacy

CONVENER Prof. M. Sumakanth Principal RBVRR Women's College of pharmacy

SPEAKERS	DATE & TIME
 Dr. A. Krishna Sailaja Professor & Head, Dept. of Pharmaceutics, RBVRR Women's College of Pharmacy 	6 TH June 2022 & 7 th June 2022 at 2.00 pm
2. Dr. K.V. Ratnamala Associate Professor, Dept. of Pharmaceutics, RBVRR Women's College of Pharmacy	8 TH June 2022 & 9 th June 2022 at 2.00 pm
3. Dr. Shyam Lal M Associate Professor, Department of Animal Biology, School of Life Sciences, University of Hyderabad	10 TH June 2022 & 11 th June 2022 at 2.00 pm



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Value Added Course		
Course: Certificate course on targeted drug delivery systems		
Code: TDS C001	Credits: 2	Total No. of Hours : 36

This certification will provide insight into the various approaches for development of novel drug delivery systems. It helps the scientist to understand the criteria for selection of drugs and polymers for the development of delivering system. It explains about the formulation and evaluation of Novel drug delivery systems

Objectives:- Objectives:- The Course Program in on targeted drug delivery systems is designed to provide participants with a comprehensive understanding of the targeted drug delivery systems such as nanoparticles, micropartcles. This course explains about recent advancements in Transdermal drug delivery systems such as iontophoresis and sonophoresis techniques. It helps the participants to have in depth knowledge on different types of vesicular drug delivery systems

SYLLABUS

Unit 1	Overview of targeted drug delivery	8 Hours
Introduction	n & basic concepts, advantages/ disadvantages,	factors influencing,
Physicochemical & biological approaches for SR/CR formulation, Mechanism of Drug		
Delivery f	rom SR/CR formulation. Polymers: introduction, de	finition, classification,
properties and application. Targeted Drug Delivery Systems: Concepts, Events and biological		
process involved in drug targeting. Tumor targeting and Brain specific delivery.		

Unit 2	Particulate drug delivery systems	8 Hours
Introduction to nanoparticles, Different techniques for the preparation of nanoparticles,		
Evaluation of nanoparticles, Various applications of nanoparticles,		
Introduction to microspheres and Microcapsules. Advantages and limitations of microspheres		
and microcapsules. Various techniques for the formulation and evaluation of microspheres,		
Microballons- A novel carrier for drug delivery		

Different techniques for the fotmulation of microcapsules, Evaluation and applications of microcapsules

Unit 3Vesicular drug delivery systems8 HoursIntroductionto vesicular drug delivery systems. Classification and general applications of
vesicular drug delivery systems. Introduction to liposomes. Different techniques, evaluation
procedures for the formulation of liposomes. Niosomes, classification and evaluationFormulationand evaluation of ethosomes, transferosomes, invasomes, electrosomes,
aquasomes, cubosomes. Structure of skin and barriers, Penetration enhancers, Transdermal
Drug Delivery systems, Formulation and evaluation.Recent advancements in Transdermal
drug delivery systems

Unit 4	Protein and peptide drug delivery	6 Hours
Barriers for protein delivery. Formulation and Evaluation of delivery systems of proteins and		
other macromolecules. Vaccines, uptake of antigens, single shot vaccines, mucosal and		
transdermal delivery of vaccines.		

Unit 5	Gene therapy	6 Hours
Introduction to gene therapy. Exvivo and invivo gene therapy. Potential target diseases for		
gene therapy .Gene expression systems. Vectors for gene delivery. Virosomes a novel carrier		
Liposomal	gene delivery systems. Knowledge of therapeutic and	tisense molecules and
aptamers as drugs of future.		

TDDS Course Outcomes:

After completion of this course

- The students will get adequate knowledge on concepts and applications of nanoparticle drug delivery systems in brain and cancer targeting
- 2) Students are thorough with the procedures and applications of different vesicular drug delivery systems such as liposomes and niosomes
- 3) Students Gain insights into the gene delivery procedures and potential targets for gene delivery
- 4) Participants may develop interdisciplinary knowledge by understating the concept of protein and peptde drug delivery systems
- 5) Participants develop knowledge on recent advancements in Transdermal drug delivery systems and permeation enhancers applications



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Certificate course on Targeted Drug Delivery Systems

FEEDBACK FORM DAY 1

1. Name of the participant: A901 deet Ishwasya

2. Name of the institute: RBVRR WCP 3. Email address: Agender Cogmail: Com... 4. How was the content delivered by the speaker.

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6 Which of the following best describes targeted drug delivery?

A) Administering drugs without any specific target

, B) Directing drugs to a specific site in the body

C) Randomly distributing drugs throughout the body

D) Increasing drug dosage without considering the target

7. What is the primary goal of targeted drug delivery?

A) Maximizing side effects

B) Minimizing drug effectiveness

C) Enhancing drug specificity and efficacy

D) Randomly distributing drugs in the body

8 Which of the following is NOT a potential benefit of targeted drug delivery?

A) Reduced side effects

B) Increased drug concentration in diseased tissues

C) Faster elimination of drugs from the body

D) Improved therapeutic outcomes

9. Which of the following is a common targeting strategy in drug delivery?

A) Administering drugs intravenously

B) Attaching drugs to nanoparticles

C) Delivering drugs orally

D) Injecting drugs into muscles

10 Which of the following is an example of an active targeting mechanism in drug delivery?

A) Passive diffusion of drugs across cell membranes

B) Coating drug particles with a biocompatible polymer

C) Attaching a ligand to a drug carrier for receptor-mediated uptake

D) Releasing drugs slowly over time from a depot injection.



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Certificate course on Targeted Drug Delivery Systems

FEEDBACK FORM DAY 1

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FEEDBACK FORM DAY 2

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6. Which of the following is a common challenge in delivering drugs to brain tumors?

A) Rapid drug metabolism

B) Limited blood-brain barrier penetration

C) High tissue permeability

D) Excessive drug accumulation

7. What is the primary function of the blood-brain barrier (BBB) in drug delivery to the brain?

A) Preventing drug absorption

B) Facilitating drug distribution

C) Protecting the brain from toxins

D) Enhancing drug metabolism

8. Which of the following strategies is commonly used to overcome the blood-brain barrier for drug delivery?

B) Decreasing drug lipophilicity

C) Using receptor-mediated transcytosis

D) Avoiding drug modification

9. Which of the following imaging techniques is commonly utilized for brain tumor targeting? ATX-ray

B) Ultrasound

C) Magnetic resonance imaging (MRI)

D) Electroencephalography (EEG)

10 What is the significance of targeting ligands in brain tumor drug delivery?

A) They decrease drug stability

B) They inhibit drug diffusion

C) They facilitate drug transport across the blood-brain barrier

D) They increase drug excretion from the brain

C) Reduced systemic toxicity

D) Prolonged drug elimination from the brain .



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FEEDBACK FORM DAY 2

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FEEDBACK FORM DAY 3

helsea Ruth 1.Name of the participant:.....

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6. What are particulate drug delivery systems primarily composed of?

A) Lipids and proteins

B) Polymers and nanoparticles

-C) DNA and RNA

D) Sugars and vitamins.

7. Which of the following is a common example of a particulate drug delivery system?

A) Antibiotics

B) Antacids

C) Liposomes

D) Antihistamines.

8. What is the primary advantage of using particulate drug delivery systems?

A) Rapid drug clearance from the body

B) Limited drug stability

-C) Enhanced drug solubility

D) Controlled drug release and targeting.

9. Which of the following is a characteristic feature of nanoparticles in drug delivery systems? A) Large size

(B) Rapid degradation

C) High surface area-to-volume ratio

D) Low drug loading capacity.

10. How do particulate drug delivery systems facilitate targeted drug delivery?

A) By increasing drug metabolism

1) By decreasing drug specificity

C) By enabling passive or active targeting mechanisms

D) By accelerating drug excretion:



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FEEDBACK FORM DAY 4

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4. How was the content delivered by the speaker.

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6. What is the primary component of niosomes?

A) Phospholipids

B) Cholesterol

C) Non-ionic surfactants

D) Ethanol

7. Which classification system is commonly used for niosomes?

A) Size-based classification

-B) Composition-based classification

C) Charge-based classification

D) All of the above

8. Which evaluation parameter is not commonly used for niosomes?

A) Size and size distribution

B) Entrapment efficiency

C) Surface charge

D) Gelation capacity

9. Ethosomes are primarily composed of:

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B) Cholesterol

C) Ethanol

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FEEDBACK FORM DAY 4

1. Name of the participant: Neharika Bommaganti

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6. Which of the following is a common challenge in the delivery of proteins and macromolecules?

A) Rapid degradation

B) Poor solubility

C) Low molecular weight

D) High stability

7. Which type of delivery system is commonly used for the controlled release of proteins?

A) Liposomes

B) Microspheres

C) Micelles

D) Emulsions

8. The encapsulation of proteins within liposomes helps to:

A) Increase protein stability

B) Decrease protein bioavailability

C) Enhance protein degradation

D) Reduce protein solubility

9. Which evaluation parameter is critical for assessing the efficacy of protein delivery systems?

A) Particle size

B) Drug loading capacity

C) Hemolytic activity

D) Protein release kinetics



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FEEDBACK FORM DAY 6

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6. Which of the following is not a common vector for gene delivery?

A) Viruses

B) Liposomes

C) Plasmids

D) Polymer nanoparticles

7. Which vector is known for its high transduction efficiency but poses safety concerns due to immunogenicity?

A) Adenovirus

-B) Plasmid DNA

C) Liposomes

D) Polymer nanoparticles

8. Virosomes are derived from:

A) Retroviruses

B) Inactivated viruses

C) Bacterial vectors

D) Plant viruses

9. Virosomes are unique carriers for gene delivery because they:

A) Are highly immunogenic

B) Can replicate in host cells

C) Mimic viral structure and fusion properties

D) Have low transduction efficiency



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FEEDBACK FORM DAY 6

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