

# RBVRR WOMEN'S COLLEGE OF PHARMACY



# 3-4-343, Barkathpura, Hyderabad – 5000 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 | PGCET Code: RBW1



[www.Rbvrrwcp.org](http://www.Rbvrrwcp.org) | Email: [rbvrrwcp@rediffmail.com](mailto:rbvrrwcp@rediffmail.com) & [rbvrrwcp2006@gmail.com](mailto:rbvrrwcp2006@gmail.com)

Invites you to the  
Certificate Course on

**“PROFESSIONAL DEVELOPMENT”**

**DATE:**

**3<sup>rd</sup> Jul 2020**

**VENUE:**

**Seminar Hall**

**Convener: Prof. M. Sumakanth**

**Principal of RBVRR Women's College of Pharmacy**

**Guest of Honor: Prof. K. Muthyam Reddy**

**Hon. Secretary & Correspondent of RBVRR Women's College  
of Pharmacy**

## Programme Schedule

DATE	SPEAKER
<b>3<sup>rd</sup> – 4<sup>th</sup> Jul 2020</b>	<b>Ramakrishna Sistla</b> Senior Scientist IICT
<b>6<sup>th</sup> – 7<sup>th</sup> Jul 2020</b>	<b>Prof. V. Viswanathan</b> Retd. Professor Osmania University
<b>8<sup>th</sup> – 9<sup>th</sup> Jul 2020</b>	<b>Prof. Purushottam Reddy</b> Retd. Professor Osmania University
<b>10<sup>th</sup> Jul 2020</b>	<b>Prof. M. Sumakanth</b> Principal RBVRR Women's College Of Pharmacy



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 Recognized under Section 2(f) of the UGC Act 1956  
**EAMCET Code: RBVW | PGCET Code: RBVW1**  
 www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

College Code: 1706

<b>Value Added Course</b>		
<b>Course: PROFESSIONAL DEVELOPMENT</b>		
<b>Code: PDC003</b>	<b>Credits: 2</b>	<b>Total No. of Hours : 36</b>

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.

## SYLLABUS

<b>Unit 1</b>	<b>Time Management</b>	<b>6 Hours</b>
<p><b>Time Management:</b> What Is Time Management, Why Time Management Is Important.</p> <p><b>Planning Tips and Tricks:</b> Planning Tools Setting Priorities Prioritizing Your Tasks Your To-Do List Managing Interruptions and Distractions Tips for Controlling Disruptions</p> <p><b>Setting Goals:</b> Goals and Targets, Setting SMART Goals, Your Own SMART Goals</p>		
<b>Unit 2</b>	<b>Advanced Writing Skills</b>	<b>7 Hours</b>
<p><b>The C's of Writing:</b> Writing Clearly, Writing Concisely, Making Connections, Writing Correctly, Choosing Your Sources</p> <p><b>Dealing with Specific Requests:</b> Types of Letters, Keeping it Real</p> <p><b>Writing Mechanics:</b> Building Paragraphs, Proper Paragraphs, More on Paragraphs, Making Connections</p> <p><b>Preparing Business Documents:</b> Requests for Proposals, The Proposals, The Differences When Writing Proposals, Ten Steps of Proposal Writing, Writing Reports, Documentation</p>		
<b>Unit 3</b>	<b>Interview Skills</b>	<b>5 Hours</b>
<p><b>Interview Skills:</b> Purpose of an interview, Do's and Dont's of an interview, E-Mail etiquette</p> <p><b>Group Discussion:</b> Introduction, Communication skills in group discussion, Do's and Dont's of group discussion</p> <p><b>Giving Presentations:</b> Dealing with Fears, planning your Presentation, Structuring Your Presentation, Delivering Your Presentation, Techniques of Delivery</p>		
<b>Unit 4</b>	<b>Leadership Skills</b>	<b>9 Hours</b>
<p><b>Introduction to Leadership:</b> Roles, functions and characteristics of a leader; evolution and growth of leadership; Leadership traits and ethics; Attitude, Behaviour, Personality traits and leadership; Types and Styles of leadership</p> <p><b>Theories of Leadership:</b> Trait Theory, Behavioural theories, Contingency Theories, Transactional Theories and Transformational Leadership Theory</p> <p><b>Leadership and Management:</b> Nature, Scope and Significance of Management; Levels of Management; Functions: Planning, Organizing, Staffing, Directing and Controlling; Skills: Conceptual, Human and Technical; Roles: Interpersonal, Informational and Decisional; difference between a leader and a manager</p> <p><b>Issues and Challenges for Leaders:</b> Immerging trends in leadership; Servant leadership, Situational leadership; Gender and leadership; Effective Leadership Communication; Emotional intelligence and leadership</p>		
<b>Unit 5</b>	<b>Research Skills</b>	<b>9 Hours</b>
<p><b>Introduction to Research and Research Design</b> Nature and scope of research, information based decision making and source of knowledge. The research process; basic approaches and terminologies used in research. Defining research question and framing of hypotheses, Preparing a research plan, qualitative and quantitative research designs, Experimentation, Observational studies, Exploring secondary data.</p>		

**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 sample size 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.

**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

# RBYRR WOMEN'S COLLEGE OF PHARMACY

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CERTIFICATE COt ltSE CtN - l'ttOEtiSSIONAL 11LYP:1.t1P8IENT

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1. Name of the participant and institute: Sruvidya
2. Name of the institute: Rbyrr women's college of pharmacy
3. Email id of the participant: Sruvidya@gmail.com
4. How was the content delivered by the speaker? (P. Anuradha Reddy)
  - Very Good
  - Good
  - Average
5. How do you rate the session?  
Excellent
  - Very Good
  - Good
  - Average
6. Smart goals are to provide better understand all very good
7. Goal setting include-
  - a) Process
  - b) Performance
  - c) OutcomeLAH of the above
8. 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
  - d) All of the above
9. Setting goals is important because it allows to be creative
10. Was the session helpful and would you like to attend more sessions like this?
  - No
  - Maybe

# RBVRR WOMEN'S COLLEGE OF PHARMACY

(Approved by the Government of Andhra Pradesh, affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

## CERTIFICATE COURSE ON – PROFESSIONAL DEVELOPMENT

Professional Development - 1, session I (2)

1. Name of the participant and institute: Sinduja Yadav
2. Name of the institute: Osmania Women's College of Pharmacy
3. Email id of the participant: Sinduja.Yadav19@gmail.com
4. How was the content delivered by the speaker? (P. Anuradha Reddy)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. Smart goals are to provide better understanding are very good.
7. Goal setting include-
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  - b) Performance
  - c) Outcome
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8. Goal setting helps in
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  - b) Provide a better understanding of expectations
  - c) Give clarity to decision making
  - All of the above
9. Setting goals is important because it allows us to be greater
10. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe

# RBVRR WOMEN'S COLLEGE OF PHARMACY

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

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: RBVRR women's college of pharmacy
3. Email id of the participant : nehadk@gmail.com
4. How was the content delivered by the speaker? (Prof. Sumita Roy)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. Leadership is the ability of directing 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
  - d) All of the above
9. A leaders most important function is to achieve desired goals
10. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe



# RBVRR WOMEN'S COLLEGE OF PHARMACY

(Approved by AICTE & I.T.I, Affiliated to Osmania University)

Sarkaln pura. Hyderabad-500 027

CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

## Leadership Skills

1. Name of the participant and institute : H L. Prasu
2. Name of the institute: RBVRR Women's College of Pharmacy
3. Email id of the participant : laxmi.prasu21@gmail.com
4. How was the content delivered by the speaker (Prof. Sumita Roy)
  - Excellent
  - Very Good
  - Good
  - Average
3. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. Leadership is the ability of directing the group to achieve goals
7. What are the most important roles of a good leader?
  - a) Motivational Team Members
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9. A leader's most important function is to achieve desired goals
10. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe

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Barkalpura, Hyderabad- 500 027

## CERTIFICATE OF PROFESSIONAL DEVELOPMENT

» \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_ in \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

1. Name of the participant: \_\_\_\_\_

2. Name of the institute: RBVRRWCP

3. Email id of the participant: \_\_\_\_\_

4. How was the content delivered by the speaker? (Mrs.P.Swathi)

- Excellent
- Very Good
  - Good
  - Average

5. How do you rate the session?

- Excellent
- Very Good
- Good
- Average

6. **Writing** skills are important as it serves as medium through which we communicate —  / 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

LAH of the above

8. Different types of writings included

- a) Expository Writing
- b) Descriptive Writing
- c) Persuasive Writing

LAH the Above

9. Resume is a summary of one's information

10. Was the session helpful and would you like to attend more sessions like this?

- Yes
- No
- Maybe

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## CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

### FEEDBACK FORM DAY -5&6 (Session 1 & I

1. Name of the participant and institute:
2. Name of the institute: RBVRR Women's College of pharmacy
3. Email id of the participant: lfipn t
4. How was the content delivered by the speaker? (Mrs.P.Swathi)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - 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 usageLAH of the above
8. Different types of writings include
  - a) Expository Writing
  - b) Descriptive Writing
  - c) Persuasive WritingLAH the Above
9. Resume is a summary of one's information
10. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe

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## CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

### FEEDBACK FORM DAY - 7 (Session 1&2)

1. Name of the participant and institute: Alha
2. Name of the institute: RBVRR womens college of pharmacy
3. Email id of the participant: Alha.madna@gmail.com
4. How was the content delivered by the speaker? (Prof. M. Sumakanth)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. Observational Studies include -
  - a) Cohort studies
  - b) Case control studies
  - c) Cross control studies
  - d) All the above
7. By controlling the conditions, experimental studies establish Independent
8. Key features of Experimental studies are-
  - a) Randomized Controlled trials
  - b) Control groups
  - c) None of the above
  - d) All of the above
9. Observational research studies involve gathering data
10. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe

# RBVRR WOMEN'S COLLEGE OF PHARMACY

(Approved by AICTE & Per, Affiliated to O.P.J.S. University)

Bangalore-100027

CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

## FEEDBACK FORM DAY - 7 (Session 1&2)

1. Name of the participant and institute: Prithvi
2. Name of the institute: RBVRR Women's College of Pharmacy
3. Email id of the participant: prithvi@rbvrr.com
4. How was the content delivered by the speaker? (Prof. M. SUTIKANTH)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. Observational Studies include -
  - a) Cohort studies
  - b) Case control studies
  - c) Cross control studies
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  - No
  - Mays



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College Code: 1706

## CERTIFICATE COURSE ON INDIAN TRADITIONAL MEDICINE

### Date:

3<sup>rd</sup> Oct, 2020 -

10<sup>th</sup> Oct, 2020

### Venu:

Seminar Hall  
RBVRR Women's College  
of Pharmacy



### INAUGURAL SESSION:

**Dr. Sudha Parimala,**  
Associate Professor,  
RBVRR Women's 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



## RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500027, Ph: 040-27563065

(Approved by AICTE & PCI, Accredited by NBA (B Pharmacy Course) Affiliated Osmania University)

EAMCET Code: RBVW | PGECET Code: RBVW1

### VALUE ADDED COURSE

#### COURSE: INDIAN TRADITIONAL MEDICINE

Duration: From 03-10-2020 To 10-10-2020 Credits: 02 Total no. of hours: 36

Lectures: 10:30 to 12:30

Workshops: 1:00 to 5:00

This course strategy will prove to be effective in creating awareness for benefits of Indian traditional medicinal and aromatic plants, increasing conservation and employment as well as entrepreneurial opportunities. Various Indian traditional medicinal plants are in demand in global market, yet many farmers/tribals/learners hardly know about: how to cultivate and harvest or where to find market? This course intervention is focused on reclaiming sustainability in Indian traditional medicinal and aromatic plants through educating learners with scientific know-hows, guidelines, quality policies, processing and developing a viable value addition and sustainable product.

#### Objectives:

To aware learners (student, faculty, professional) about the rich Indian traditional knowledge of medicinal and aromatic plants, their protection, regulations, quality control and market.

- To clear myths and propose scientific evidences of traditional medicinal and aromatic plants benefits.
- To aware learners about cultivation, conservation, value addition and socioeconomic development through the knowledge of Indian Traditional Medicinal and Aromatic plants
- To aware learners (especially urban) to identify few important Traditional Medicinal and Aromatic plants
- To aware learners about Entrepreneurship and Start-up opportunities based on market for Indian Traditional Medicinal and Aromatic plants.

#### Eligibility:

Anyone who is having interest in Medicinal and Aromatic Plants can enrol this course. Student, professionals, faculty from pharmacy, alternative medicines, life sciences, biotechnology, agriculture, natural chemistry and food technology.



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EAMCET Code: RBVW | PGECET Code: RBVW1

### Course layout:

<b>Lecture-1</b>	<b>2 HOURS</b>
<b>Introduction to Ayurveda, Siddha, Unani, Homeopathy &amp; Sowa-Rigpa Systems and Traditional Formulations</b>	
<b>Speaker:</b> <a href="#">Dr. Chidambara Murthy, HOD, Ramaiah College Of Pharmacy Bengaluru</a>	
Traditional medicine (also known as indigenous medicine or folk medicine) comprises medical aspects of traditional knowledge that developed over generations within the folk beliefs of various societies, including indigenous peoples, before the era of modern medicine. The World Health Organization (WHO) defines traditional medicine as "the sum total of the knowledge, skills, and practices based on the theories, beliefs, and experiences indigenous to different cultures, whether explicable or not, used in the maintenance of health as well as in the prevention, diagnosis, improvement and treatment of physical and mental illness". Traditional medicine is often contrasted with scientific medicine.	
<b>Workshop:</b> Dr. Sudha Parimala	<b>4 HOURS</b>
<b>Extraction</b> Different methods of extraction like maceration, percolation and Soxhlet extraction of crude drugs, Difference between soft & dry extracts.	
<b>Lecture -II</b>	<b>2 HOURS</b>
<b>Important Medicinal Plants mentioned in ancient texts</b>	
<b>Speaker:</b> <a href="#">Dr. Mruthyunjaya Kenganoor, HOD, Department of Pharmacognosy, JSS College of Pharmacy, Mysore.</a>	
Medicinal plants are vital sources of easily accessible remedy used in the countryside healthcare system. This study aimed to find and make record of plants that are used for medicinal therapy by three communities living in Cherangani Hills. So far no single study has documented medicinal plants as a whole in the area. Ethnobotanical data were obtained through interviewing informants using semi-structured questionnaires and extracting information from journals and books. Descriptive statistical analysis was applied to describe the data. Overall 296 plant species from 80 families and 191 genera were identified. Asteraceae family was the most dominant, representing 10.7% of the total plant species recorded. Roots (35.9%) represented the most commonly used parts of the plant. The commonly used method of preparation was decoction (54.9%). The reported diseases were classified into 14 diverse ailment groups out of the 81 health conditions on their underlying user reports. Rural communities in Cherangani Hills are rich sources of plants with medicinal properties. Therapeutic uses of the compiled plants provide basic information that can aid scientists to conduct additional research dedicated to conservation of species and pharmacological studies of species with the greatest significance.	
<b>Workshop:</b> Dr. Sudha Parimala	<b>4 HOURS</b>
Ayurvedic formulations processing (Asava, Arishta, Bhasma, Vati)	
<b>Lecture -III</b>	<b>2 HOURS</b>
Important Medicinal Plants mentioned in ancient texts	





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**Speaker:** [Dr.Salma Khanum, HOD, Al-Ameen College of Pharmacy, Bengaluru.](#)

**Workshop:** Dr. Sudha Parimala

**4 HOURS**

Field visit to medicinal plant garden

### **Lecture -IV**

**2 HOURS**

#### **Important Aromatic Plants mentioned in ancient texts**

Aromatic and medicinal plants, through their secondary metabolism, provide a complex mixture of volatile molecules known as essential oils. These volatile molecules exert antibacterial activity that has been used in folk medicine for centuries.

**Speaker:** [DR. Kotresh Kumar, Director, CIMAP Uppal, Hyderabad](#)

**Workshop:** Dr. G. Kalpana

**4 HOURS**

Field visit to Aromatic plants Garden.

### **Lecture -V**

**2 HOURS**

Good Cultivation and Collection Practices guidelines-WHO, NMPB-AYUSH, Voluntary Certification Scheme for Medicinal Plant Produce, Conservation of rare and endangered traditional plants

**Speaker:** [DR. S. Shasidhara, Retd. Principal, Government College of Pharmacy, Bengaluru](#)

**Workshop:** Dr. G. Kalpana

**4 HOURS**

Standardization of few marketed herbal formulations like churna, Bhasma.

### **Lecture -VI**

**2 HOURS**

#### **Value added products**

AYUSH Products, food, nutraceuticals, cosmetics and agrochemicals, Entrepreneurship and start up opportunities in Plants (Licensing and manufacturing)

**Speaker:** [DR. Gopal, Mother Theresa College, Pondicherry](#)

Nutraceutical is a fledgling field emerging swiftly due to rising awareness of the potential benefits of dietary supplements used to complement drug treatment. Three-dimensional printing (3DP) is a new-fangled drug delivery system that enables the designing of complex structures according to the needs of each individual. The distinctive characteristics of 3DP are beginning to come to the fore due to advances achieved in other industries and currently riding the wave in the field of nutraceuticals. This study seeks to provide recent breakthroughs in the development of nutraceuticals using various 3D printing techniques and serves as a guide to formulators in terms of nutraceutical development scenarios to allow unabridged benefits of personalized nutrition to patients. Understanding the primary drivers of the nutraceutical market, together with a consistent and well-defined regulatory framework, will open up new avenues for 3D printed nutraceutical innovation, diversification, and segmentation.

**Workshop:** Dr. G. Kalpana

**4 HOURS**

Extraction & Isolation of soluble and insoluble fibre from Carrot, ApplePomace.



# RBVRR WOHEHT COLLEGE OF PHARMACY

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EAMCST Code: ItBVW I PGCET Code: BBVW1

## Certificate course on Indian Traditional Medicine

### FEEDBACK FDRM DAY 6

- 1..Name of the participants.Û ...
2. Name of the institute: RBVRR WCOF
3. Email address: S.Aleem.Ahmed@gmail.com
4. H p was the content delivered by the speaker..  
Wexcellent  
 very good  
 Good
5. How do you rate the session?  
Excellent  
 very good  
 Good
6. Wöuld you life to have more sessions like this?  
 Yes  
 Maybe  
 No
- 7 as the session regarding Nutraceuticals helpful to you?  
Yes  
 Ma ya  
 No
8. Carrot is a?  
A) Soluble fibre  
B) l soluble fibre  
C) Both



# RBVRR WOMEN'S COLLEGE OF PHARMACY

4th g4S, Barhatjyura, Hydwybad - 340037, Ph: 040.z7scs0\$\$

Approved by AICTE & PCI, Accredited by NBA IB Pharmacy (course) AI Itatsd Osmgnls uwarsity

EAMCET Code: RBVW | PGCET Code: RBVW1

## Certificate course on Indian Traditional Medicine

KEFE \_\_\_\_\_ Y

1. Name of the participant: *Kamisha Jaiswal*  
2. Name of the institute: *RBVRR WOP*  
3. Email address: *K.Jaiswalp@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. Would you like to have more sessions like this?

- Yes  
 Maybe  
 No

7. What is your opinion on maintenance of Good Agricultural Practices?

- They are necessary  
 sometimes necessary  
 Not at all necessary

8. Bh ~~as~~ are prepared by the process called.

A.

9. Which of the following are uses of Churne?

- Promotes digestion  
 Relieves pain and inflammation  
 Antioxidant  
 All of the above



## RBVRR WOMEN'S COLLEGE OF PHARMACY

S-3dy, 8erfcsrfiyurp, Hyderebsd - Sooazz, Ph: 6ç0-z7s¥e0ss  
tAppt'0vaS by AtCTE & PO, Açcreditstnd by NBA tB PfzBrmaçy CoUrsc) Aff'gi0tsd Ogmsntg University  
EAMçET Code. RBVW I PSECET Cede: 6tBVWf

### Certificate course on Indian Traditional Medicine

#### FEEDBACK FORM DAY fi

1. Name of the participant: Sana Begum...  
2. Name of the institute: RBVRR WCO  
3. Email address: SanaBegumAfreen@gmail.com

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

- Excellent  
 very good  
 Good

5. How do you rate the session?

Excellent

Good

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

- Yes  
 Maybe  
 No

7. What is your opinion on maintenance of Good Agricultural Practices?

- Key are necessary  
 sometimes necessary  
 Not at all necessary

8. Bhasmas are prepared by the process called.

A. Bhasmakarang

9. Which of the following are uses of 'Churna'?

- Promotes digestion  
 Relieves pain and inflammation  
 Antioxidant  
 All of the above



## RBVRR WOMEN'S COLLEGE OF PHARMACY

34-343, Berkathpura, Flybebad - 500027, Ph: 06-2756306s

(Approved by CICTE & PCI, Accredited by hBA (B Pharmacy Course Affiliated osmania University)

MMCET Code: RBVW I PGCET Code: RBVW1

Certificate course on Indian Traditional Medicine

FEEDBACK FOR Yr OAY 4

1. Name of the participant: ... ,fik.VIA..... fi\

2. Name of the institute: ... .. EU. ....

3. Email address: ... A.snigdha.1998@gmail.com

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

excellent

very good

Good

5. How do you rate the session?

excellent

Good

6. Would you like to have more sessions like this?\*

Yes

Maybe

No

7. Which of the following is not an aromatic plant?

a) Dhavana

b) Geranium

c) Vetiver

bgol

8. Your opinion on essential oils as antibacterial leads:

A. Essential oils are used in folk medicines



# RBVRR WOMEN'S COLLEGE OF PHARMACY

3w3«3, 8prksthPura. Hyderabad - 50oo27, Ph: o4o-t7563o6s

(Approved by A/CYE 6 PCI, Accredited by NeA (B Pharmacy Course) Affiliated Osmania University)

EAñCET Code: RBVW I PGECET Code: ftBVW1

## Certificate course on Indian Traditional Medicine

### FEEDBACK FORM DAY 3

1. Name of the participants

2. Name of the institute: RBVRR WOP

3. Email address: D.H.Reddy.83@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. Would you like to have more sessions like this?

Yes

Maybe

No

7. What did you learn from the visit to medicinal plant garden?

A.

plants

8. Name any two important medicinal plant species mentioned in ancient texts?

A. Shatavali, Ashwagandha

9. Which of the following is considered as the oldest methods of medicine?

a) Ayurveda

b) Siddha

c) Unani

d) Homeopathy



## RBVRR WOMEN'S COLLEGE OF PHARMACY

Plot No. 343, Baricathpurg, Hyderabad - 500027. Ph: 0802766005

(Approved by AICTE & PCI, Accredited by NBA (B.Pharmacy Course) Affiliated Osmanli Liniversity

MMCEC Code: RBVW I PGCET Code: RBVW1

### Certificate course on Indian Traditional Medicine

#### FEEDBACK FORM DAY 4

1. Name of the participant: .. fi .  
2. Name of the institute: .. à .. .....t.com  
3. Email address: .....fi.At•i. . . . .t.com

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

U excellent  
ri very good  
ri Good

5. How do you rate the session\*

m excellent  
very good  
Good

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

kes  
 Maybe  
 No

7. Which of the following is not an aromatic plant?

a) Dhavana  
b) Geranium  
c) Vettiver  
sabgol

8. Your opinion on essential oils as antibacterial leads:

A. The antibacterial property \_\_\_\_\_

med



## RSV & EWDM & NBC COLLEGE OF PHARMACY

3-4-2014, Bakhazgur, Hyderabad - 500079. Phone: 9849680000

Approved by AICTE & PCI, Accredited by UGC @ Pharmacy courses Amhstsd osm ue Unkwtty

EAMCET RBW I PGETC nBVW1

### Certificate course on Indian Traditional Medicine

#### FEEDBACK FOR DAY 2

1. Name of the participant: Aayesha Begum  
2. Name of the institute: RSV & EWDM & NBC  
3. Email address: AayeshaBegum17@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. Would you like to have more sessions like this?

No

7. How many plant species have been discovered so far?

A. 276

8. Which is the part of the medicinal plant that is mostly used?

Root

Stem

Bark

9. How was your hands-on experience on Ayurvedic formulation preparation and Standardization?

Excellent

Very good

Good





## RBVRR WOMEN'S COLLEGE OF PHARMACY

2WS49, B. Zisatpura, Hyderabad - 500027, Ph: 9a4-27gg\$06g  
(Approved by AICTE & PCI. Accredited by NBA @ Pharmacy Council Affiliated Osmania University)  
EAMCET Code: RBVANI I : PGECET Code: RBVWI

### Certificate course on Indian Traditional Medicine

#### FEEDBACK FORM DAY 1

1. Name of the participant: Are Katikvani  
2. Name of the institute: RBVRR WCOL  
3. Email address: Are.katikvani99@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. Would you like to have more sessions like this?

- Yes  
 **Maybe**  
 No

7. How was your hands-on experience on different extraction methods?

- A) Excellent**  
 B) very good  
 C) Good

8. What did you learn from your field visit to medicinal plant garden?

- A) Excellent**  
 B) very good  
 C) Good



# RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-3s, Barlasthura, Hyderabad - 501027. Ph: 040-22563055

(Approved by ICTE & PCI, Accredited by NBA (B Pharmacy Course) Affiliated to Osmania University

EAMCST Code: RBVW | P.GECET Code: RBVW\

## Certificate course on Indian Traditional Medicine

FEEDBACK FORM 1

1. Name of the participant: . . . . .
2. Name of the institute: RBVRR WCO
3. Email address: ANILKULU28@gmail.com

4. How was the moment delivered by the speaker?

- Excellent
- Very good
- Good

5. How would you rate the session?

- Excellent
- Very good
- Good

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

- Yes
- Maybe

7. How was your hands-on experience on different extraction methods?

- Excellent
- Very good
- Good

8. What did you learn from your field visit to medicinal plant garden?

- Excellent
- Very good
- Good



# RBVRRWOMBWBL of Ph.D. College of Pharmacy

g 0•dYZ, Baz]catbpur+, Hydeesbad - 500027, Ph: 0€o•z7gd30gg

fApproved by/AtCzE c Pci, Accradizsmd by NaA fa Pharmacy course) Afttlstad ocmcnis untve'sity

£AMCft G»de: RBV ) PG£CtT Gede: RBYWT

## Certificate course on Indian Traditional Medicine

### FEEDBACK FORM DAY 2

1. Name of the participant: G. Jkshitha  
2. Name of the institute: RBVRR WOMBWBL  
3. Email address: guramaks1998@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. Would you like to have more sessions like this?

- Yes
- Maybe
- No

7. how many plant Species have been discovered so far?

A. W

8. Which is the part of the medicinal plant that is mostly used:\*

- Leaf
- foot
- Sem
- Bak

9. How was your hands-on experience on Ayurvedic formulation preparation and Standardization?

- excellent
- B) very good
- C) Good



## RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Baricathpura, Hyderabad - 500027. Ph: 080-27563999

(Approved by AICTE & PCI, Accredited Pharmacy Course) Affiliated Osmania University  
EAMCET Code: R8VW I PGECE7 Code: RBVW1

### Certificate course on Indian Traditional Medicine

#### FEEDBACK FORM DAY 3

1. Name of the participant:..... *ilhp*  
2. Name of the institute:..... *ilhp*  
3. Email address:..... @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. Would you like to have more sessions like this?

Yes

Maybe

7. What did you learn from your field visit to medicinal plant garden?

A. Different cultivation & collection practices

8. Name any two important medicinal plant species mentioned in ancient texts?

A. Vetiver, Davana

9. Which of the following is considered as the oldest method of medicine?

a) Ayurveda

b) Siddha

c) Unani

d) Homeopathy

# RBVRR WOMEN'S COLLEGE OF PHARMACY

# 3-4-343, Barkathpura, Hyderabad – 5000 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: [rbvrrwcp@rediffmail.com](mailto:rbvrrwcp@rediffmail.com) & [rbvrrwcp2006@gmail.com](mailto:rbvrrwcp2006@gmail.com)



## A 10 DAY CERTIFICATE COURSE IN PHARMACOVIGILANCE 2020

### 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:

25<sup>th</sup> Oct 2020

Payment: Gpay to 7416614919



**CLINOSOL™**

# 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
31 <sup>st</sup> OCT 2020	Module 1	Introduction to Clinical Research and Pharmacovigilance	C.S Mujeebuddin	4 Hours
01 <sup>st</sup> Nov 2020	Module 2	Case processing workflow	C.S Mujeebuddin	4 Hours
02 <sup>nd</sup> Nov 2020	Module 3	Causality Assessment	Uma Priya	4 Hours
03 <sup>rd</sup> Nov 2020	Module 4	Expedited Reporting	Uma Priya	3 Hours
04 <sup>th</sup> Nov 2020	Module 5	Narrative Writing	C.S Mujeebuddin	4 Hours
05 <sup>th</sup> Nov 2020	Module 6	Medical Coding in PV	C.S Mujeebuddin	3 Hours
06 <sup>th</sup> Nov 2020	Module 7	Signal Management	Uma Priya	3 Hours
08 <sup>th</sup> Nov 2020	Module 8	Aggregate Reporting	Uma Priya	4 Hours
09 <sup>th</sup> Nov 2020	Module 9	Hands on Exercises	Dr.Mitesh Reddy	4 Hours
09 <sup>th</sup> Nov 2020	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.

<b>An Intensive Practice based Certification Course on</b>		
<b>PHARMACOVIGILANCE</b>		
Code:PVCC003	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

<b>Module I</b>	<b>Introduction to Pharmacovigilance</b>	<b>4hrs</b>
Introduction to Clinical Research and Pharmacovigilance. Historical perspectives and Current Status of pharmacovigilance. National and international aspects of PV .		
<b>Module II</b>	<b>Case Processing Workflow</b>	<b>4hrs</b>
Adverse Drug Reactions - Types, detection and reporting methods. Sources of Cases: Unsolicited Reports, Solicited reports, contractual agreements, Regulatory Authorities, Steps in case processing.		
<b>Module III</b>	<b>Causality Assessment</b>	<b>4hrs</b>
Factors Considered in Causality Assessment, Methods and Tools for Causality Assessment, Methods and Tools for Causality Assessment, Case studies.		
<b>Module IV</b>	<b>Expedited Reporting</b>	<b>3hrs</b>
Types of Regulatory reporting, Criteria for Expedited Reporting, Time Frames, Channels of reporting, Regulatory obligations.		
<b>Module V:</b>	<b>Narrative Writing</b>	<b>4hrs</b>
Narrative Writing objectives, regulatory frame work, Template of narrative writing. Case Studies.		
<b>Module VI</b>	<b>Medical Coding in PV</b>	<b>3hrs</b>
Medical coding: Introduction, WHO adverse reactions, terminologies, Med DRA and Standardized Med DRA.		
<b>Module VII</b>	<b>Signal Management</b>	<b>3hrs</b>
Signal terminologies, Methods of signal detection. Signal Management process flow, Qualitative and Quantitative signal detection, Analysis of different data sources.		



<b>Module VIII</b>	<b>Aggregate Reporting</b>	<b>4hrs</b>
Types of aggregate reporting , Reporting intervals, communication to regulatory authorities		
<b>Module IX</b>	<b>Practical session on Narrative Writing.</b>	<b>4hrs</b>
Exercises on Spontaneous reports,		
<b>Module X</b>	<b>Practical session on Causality assessment and Med DRA</b>	<b>4hrs</b>
Assessment of Causality based on Naranjo scale for the given cases, Med DRA Coding Demo		

# RBVRR WOMEN'S COLLEGE OF PHARMACY

# 3-4-343, Barkatpura, Hyderabad – 5000 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: [rbvrrwcp@rediffmail.com](mailto:rbvrrwcp@rediffmail.com) & [rbvrrwcp2006@gmail.com](mailto:rbvrrwcp2006@gmail.com)**



## Certificate course on GREEN CHEMISTRY IN DRUG DISCOVERY-2020

15<sup>th</sup> -22<sup>nd</sup> Dec 2020



### 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:

<https://forms.gle/Yu9WvuzVo2LvQbjV8>

Registration Fee: 800/-

Last Date for Registration: 12<sup>th</sup> Dec 2020

Gpay Number : 7702236567

## **ABOUT RBVRR WOMEN'S COLLEGE OF PHARMACY**

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: GCDCC003	Credits: 4	Total 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

7 HRS

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 microwave-assisted 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 CO<sub>2</sub> - 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 (10.30AM-1.00PM)	AFTERNOON SESSION (2.00PM-4.30PM)
15 <sup>th</sup> Dec 2020	Dr. GunaSekar G.H. Scientist & Assistant Professor AcSIR, Department Of Catalysis & Fine Chemicals. CSIR-IICT Hyderabad	Dr. T. Saravanan Assistant Professor School of Chemistry University of Hyderabad Hyderabad
16 <sup>th</sup> Dec 2020	Prof. B.M. Reddy FNAE, FNASc, FRSC, FTASc, FAPASc Senior Professor Emeritus Department of Chemistry BITS Pilani, Hyderabad Campus Hyderabad	Dr. Jeevana Jyothi HOD, Associate Professor RBVRR Women's College Department of Chemistry & Forensic Science Barkatpura
17 <sup>th</sup> Dec 2020	Dr. GunaSekar G.H. Scientist & Assistant Professor AcSIR, Department Of Catalysis & Fine Chemicals. CSIR-IICT Hyderabad	Prof. B.M. Reddy FNAE, FNASc, FRSC, FTASc, FAPASc Senior Professor Emeritus Department of Chemistry BITS Pilani, Hyderabad Campus Hyderabad
18 <sup>th</sup> Dec 2020	Dr. T. Saravanan Assistant Professor School of Chemistry University of Hyderabad Hyderabad	Dr. Jeevana Jyothi HOD, Associate Professor RBVRR Women's College Department of Chemistry & Forensic Science Barkatpura
19 <sup>th</sup> Dec 2020	Hands on training	
21 <sup>st</sup> Dec 2020	Prof. B.M. Reddy FNAE, FNASc, FRSC, FTASc, FAPASc Senior Professor Emeritus Department of Chemistry BITS Pilani, Hyderabad Campus Hyderabad	Dr. T. Saravanan Assistant Professor School of Chemistry University of Hyderabad Hyderabad
22 <sup>nd</sup> Dec 2020	Dr. Jeevana Jyothi HOD, Associate Professor RBVRR Women's College Department of Chemistry & Forensic Science Barkatpura	Prof. M. Sumakanth Principal, RBVRR Women's College of Pharmacy Valedictory Session

### 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

# RBVRR WOMEN'S COLLEGE OF PHARMACY

# 3-4-343, Barkathpura, Hyderabad – 5000 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 | PGCET Code: RBW1



## Two-week certificate course on "Advance Analytical Techniques"

3<sup>rd</sup>– 14<sup>th</sup> April 2021

### INAUGRAL SESSION:

**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: ~~2<sup>nd</sup> April, 2021~~

## SCHEDULE

DAY	DATE	SPEAKER	TOPIC
DAY 1&2	3 <sup>rd</sup> & 5 <sup>th</sup> April 2021	Mr. M. Soundarapandian, Assistant Director, Clearsynth Pvt, Ltd, Hyderabad.	Advancements in Chromatography
Day 3&4	6 <sup>th</sup> & 7 <sup>th</sup> April 2021	Mr. A Venkata Rao Manager, LC-MS Department, Aurobindo Pharma Ltd, Hyderabad.	LC-MS & GC-MS
DAY 5&6	8 <sup>th</sup> & 9 <sup>th</sup> April 2021	Dr. K. Bhavya Sri, Associate Professor, Head, Dept of Pharma Analysis, RBVRR Womens College	Analytical Method Validation
Day 7&8	10 <sup>th</sup> & 12 <sup>th</sup> April 2021	Mr. Lalit kumar, Research Associate-IV, Aurobindo LTD, Hderabad	X- Ray Diffraction
Day 9&10	13 <sup>th</sup> & 14 <sup>th</sup> April 2021	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



# RBVRR WOMEN'S COLLEGE OF PHARMACY

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

Barkatpura, Hyderabad- 500 027

## TWO WEEK CERTIFICATE COURSE ON ADVANCED ANALYTICAL TECHNIQUES

### FEEDBACK FORM DAY 5&6 (SESSION 1&2)

1. Name of the participant and institute: B. Sai priya
2. Name of the institute: RBVRR women's college of pharmacy
3. Email id of the participant: priya bolja 4@gmail.com
4. How was the content delivered by the speaker? (Dr.K.Bhavya Sree)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. The lowest amount of analyte in a sample which can be detected but not necessarily quantitated as an exact value?
  - a) Limit of detection
  - b) Accuracy
  - c) Limit of Quantitation
  - d) Specificity
7. Which is not one of the four major components in the overall validation process?
  - a) System suitability
  - b) Instrument qualification
  - c) Measurement validation
  - d) Software validation
8. Methods need to be validated, verified, and revalidated when the method is being transferred to another laboratory
  - a) True
  - b) False
9. How many parts make the overall validation process
  - a) 8
  - b) 4
  - c) 9
10. Was the session helpful and would you like to attend more sessions like this?
  - a) Yes
  - b) No
  - c) Maybe

# RBVRR WOMEN'S COLLEGE OF PHARMACY

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

Barkatpura, Hyderabad- 500 027

## TWO WEEK CERTIFICATE COURSE ON ADVANCED ANALYTICAL TECHNIQUES

### FEEDBACK FORM DAY 1&2 (SESSION 1&2)

1. Name of the participant and institute: K. Bhavana
2. Name of the institute: RBVRR Women's college of pharmacy
3. Email id of the participant: karlibhavana24@gmail.com
4. How was the content delivered by the speaker? (Dr. G. Jithender Reddy)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. Which of the following are considered to be the lowest form of Electromagnetic Radiation
  - a) IR Radiation
  - b) Microwaves
  - c) UV radiation
  - d) Radiowaves
7. What is used to cool the superconducting coils
  - a) Hydrogen
  - b) Ice
  - c) Dry Ice
  - d) Liquid Medium
8. NMR Spectroscopy indicates the chemical nature of \_\_\_\_\_ and Spatial positions of \_\_\_\_\_?
  - a) Electrons; Protons
  - b) Nuclei; Electrons
  - c) Nuclei; Neighbouring Nuclei
  - d) Neutrons; Electrons
9. When placed in magnetic field all random spins of the nuclei \_\_\_\_
  - a) Stop
  - b) Reverse the direction
  - c) Align with the magnetic field
  - d) Rotate to 90° away from induced field
10. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe

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## TWO WEEK CERTIFICATE COURSE ON    ADVANCED ANALYTICAL TECHNIQUES

### FEEDBACK FORM DAY 7&8 (SESSION 1&2)

1. Name of the participant and institute: Anam Mohammed
2. Name of the institute: RBVRR women's college of Pharmacy
3. Email id of the participant: anammo666@gmail.com
4. How was the content delivered by the speaker? (Dr. M.Soundarapandian)
  - 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 the nature of mobile phase in reverse phase chromatography?
  - a. Polar
  - b. Non Polar
  - c. Mixture of both
  - d. Can be anything depending on nature of analyte
7. What is the pressure used in HPLC
  - a) 1000-3000 psi
  - b) 1000-5000 psi
  - c) 2000-6000 psi
  - d) 1000-6000 psi
8. Which of the following is not true about solvent programming, which is done in HPLC
  - a) It provides unequal bandwidths
  - b) It provides fast overall separation
  - c) It provides maximum resolution
  - d) It provides maximum Sensitivity
9. Derivatisation technique in HPLC are intended to enhance
  - a) Molecular weight
  - b) Detectability
  - c) Reversibility
  - d) Reproducibility
10. Was the session helpful and would you like to attend more sessions like this?
  - a. Yes
  - b. No
  - c. Maybe

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## TWO WEEK CERTIFICATE COURSE ON ADVANCED ANALYTICAL TECHNIQUES

### FEEDBACK FORM DAY 1&2 (SESSION 1&2)

1. Name of the participant and institute: Arifilla Jabnari
2. Name of the institute: RBVRR women's college of pharmacy
3. Email id of the participant: jabnariarifilla@gmail.com
4. How was the content delivered by the speaker? (Dr. G. Jithender Reddy)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. Which of the following are considered to be the lowest form of Electromagnetic Radiation
  - a) IR Radiation
  - b) Microwaves
  - c) UV radiation
  - d) Radiowaves
7. What is used to cool the superconducting coils
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  - c) Dry Ice
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8. NMR Spectroscopy indicates the chemical nature of \_\_\_\_\_ and Spatial positions of \_\_\_\_\_?
  - a) Electrons; Protons
  - b) Nuclei; Electrons
  - c) Nuclei; Neighbouring Nuclei
  - d) Neutrons; Electrons
9. When placed in magnetic field all random spins of the nuclei \_\_\_\_
  - a) Stop
  - b) Reverse the direction
  - c) Align with the magnetic field
  - d) Rotate to 90° away from induced field
10. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe

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## TWO WEEK CERTIFICATE COURSE ON      ADVANCED ANALYTICAL TECHNIQUES

### FEEDBACK FORM DAY 7&8 (SESSION 1&2)

1. Name of the participant and institute: Ayesha Tabreen
2. Name of the institute: RBVRR women's college of pharmacy
3. Email id of the participant: ayeshatabreen423@gmail.com.
4. How was the content delivered by the speaker? (Dr. M.Soundarapandian)  
 a. Excellent  
b. Very Good  
c. Good  
d. Average
5. How do you rate the session?  
 o Excellent  
 o Very Good  
 o Good  
 o Average
6. What is the nature of mobile phase in reverse phase chromatography?  
 o Polar  
 o Non Polar  
 o Mixture of both  
 o Can be anything depending on nature of analyte
7. What is the pressure used in HPLC  
a) 1000-3000 psi  
b) 1000-5000 psi  
c) 2000-6000 psi  
 d) 1000-6000 psi
8. Which of the following is not true about solvent programming, which is done in HPLC  
 a) It provides unequal bandwidths  
b) It provides fast overall separation  
c) It provides maximum resolution  
d) It provides maximum Sensitivity
9. Derivatisation technique in HPLC are intended to enhance  
a) Molecular weight  
b) Detectability  
 c) Reversibility  
d) Reproducibility
10. Was the session helpful and would you like to attend more sessions like this?  
 a. Yes  
b. No  
c. Maybe

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## TWO WEEK CERTIFICATE COURSE ON ADVANCED ANALYTICAL TECHNIQUES

### FEEDBACK FORM DAY - 5&6 (SESSION - 1&2):

1. Name of the participant and institute: Syeda Haja Fatima
2. Name of the institute: RBVRR Women's college of pharmacy
3. Email id of the participant: Haja1021@gmail.com
4. How was the content delivered by the speaker? (Dr.K.Bhavya Sree)
  - Excellent
  - Very Good
  - Good
  - Average
5. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
6. The lowest amount of analyte in a sample which can be detected but not necessarily quantified as an exact value?
  - a) Limit of detection
  - b) Accuracy
  - c) Limit of Quantitation
  - d) Specificity
7. Which is not one of the four major components in the overall validation process?
  - a) System suitability
  - b) Instrument qualification
  - c) Measurement validation
  - d) Software validation
8. Methods need to be validated, verified, and revalidated when the method is being transferred to another laboratory
  - a) True
  - b) False
9. How many parts make the overall validation process
  - a) 8
  - b) 4
  - c) 9
10. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe

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## TWO WEEK CERTIFICATE COURSE ON      ADVANCED ANALYTICAL TECHNIQUES

### FEEDBACK FORM DAY - 9&10 (SESSION - 1&2):

11. Name of the participant and institute : SYEDA AYESHA TASNEEM
12. Name of the institute: RBVRR WOMEN'S COLLEGE OF PHARMACY
13. Email id of the participant : ayshatasneem26@gmail.com
14. How was the content delivered by the speaker? (Mr.Lalith Kumar)
- Excellent
  - Very Good
  - Good
  - Average
15. How do you rate the session?
- Excellent
  - Very Good
  - Good
  - Average
16. Solid samples are introduced into the ICP Spectrometer using which of the following?
- Nebulizer
  - Cuvette having glass window
  - Probe
  - Laser ablation system
17. ICP principle is similar to which of the following?
- a) Flame Emission spectroscopy
  - b) Fourier Transform spectroscopy
  - c) Atomic Emission spectroscopy
  - d) Absorption Spectroscopy
18. Which of the following is not characteristic of ICP spectrometer
- a) Easy sample introduction
  - b) It can trace multiple elements
  - c) High detection limits
  - d) Accuracy
19. Atomization and Ionization occurs at which of the following condition?
- a) Vacuum pressure
  - b) Atomic Pressure
  - c) Low pressure
  - d) High pressure
20. Was the session helpful and would you like to attend more sessions like this?
- Yes
  - No
  - Maybe

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## TWO WEEK CERTIFICATE COURSE ON      ADVANCED ANALYTICAL TECHNIQUES

### FEEDBACK FORM DAY - 9&10 (SESSION - 1&2):

11. Name of the participant and institute : SYEDA HAMEEDA NISHATH
12. Name of the institute: RBVRR COLLEGE OF PHARMACY
13. Email id of the participant : nishathsyedaa@gmail.com
14. How was the content delivered by the speaker? (Mr.Lalith Kumar)
  - Excellent
  - Very Good
  - Good
  - Average
15. How do you rate the session?
  - Excellent
  - Very Good
  - Good
  - Average
16. Solid samples are introduced into the ICP Spectrometer using which of the following?
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19. Atomization and Ionization occurs at which of the following condition?
  - a) Vacuum pressure
  - b) Atomic Pressure
  - c) Low pressure
  - d) High pressure
20. Was the session helpful and would you like to attend more sessions like this?
  - Yes
  - No
  - Maybe





# RBVRR WOMEN'S COLLEGE OF PHARMACY

# 3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

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

EAMCET Code: RBVW | PGCET Code: RBVW1

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

College Code: 1706

Value Added Course		
Course: Advance Analytical Techniques		
Code:AATCC003	Credits:2	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 Bioanalytical 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
<p><b>NMR Spectroscopy:-</b>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.</p> <p>1D- NMR and 13CNMR.</p> <p><b>Mass Spectroscopy:-</b>Principle, theory, instrumentation of mass spectrometry, different types of Ionization Techniques like Electron Impact, Chemical, Field, FAB and MALD, APCI, ESI, APPI, Mass fragmentation mechanism and its rules, meta stable ions, isotopic peaks and applications of mass spectrometry.</p>		
Unit 2	Chromatographic Techniques and their Advancements	6 Hours
<p>Principle, Instrumentation and Pharmaceutical applications:- HPLC,UPLC, Nano LC, HILIC, GC, SFC</p>		

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

<b>Unit 4</b>	<b>X-ray Crystallography</b>	<b>4 Hours</b>
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 diffraction		

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

**Advance Analytical Techniques Course Outcomes:**

**After completion of this course**

- 1) 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