

Curriculum Vitae

Mrs. Reena Modi (M.Sc., M.Phil.,PhD(pursuing))

Assistant Professor (Botany)

Sangam University, Bhilwara (Raj.)

1/0/16,R.C.Vyas Colony

Bhilwara – 311001

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1. OBJECTIVES:

As a dedicated professional, my objective is to continually push the boundaries of knowledge and innovation in the field of [Cytogenetics], while maintaining a steadfast commitment to ethical principles and social responsibility. I aspire to contribute to groundbreaking research, drive positive change, and inspire others through my work, ultimately leaving a lasting impact on both my industry and society as a whole.

2. EDUCATIONAL PROFILE:

Class Board/ University Subject Year Percentage (**First class career throughout**)

- Ph.D. Pursuing from Sangam University, Bhilwara (Raj.) 2020-21
- M.Phil. from School of Studies in Botany, Vikram University, Ujjain.2012 (70.14%)Ujjain (M.P.)
- M. Sc., Botany, Vikram University, Ujjain 2003 (67.25%) Ujjain (M.P.)
- B. Sc. Vikram University, Ujjain 2000 (62.44%) Ujjain (M.P.)
- XII th Secondary Education Board, BHOPAL, M.P. Biology 1997(63.66%)
- Xth Secondary Education Board, BHOPAL, M.P 1995(63.6%)

3. WORKEXPERIENCES:

1. Teaching experience –

Above 15 years in recognized Institute and with non-recognized 18 years.

Recognized Institute

- O Presently working at **Sangam University** as Assistant Professor in School of Basic and Applied Science from 13 March 2023.
- O Worked as assistant professor at **Vidya Professional & Technical College**, Palari (Bhlwara) From Nov.2020 to Nov.2023.
- O Worked as Assistant Professor at **Smt. Sohandevi Gattani College**, Sawaipur (BHL) from Sept.2019 to oct.2020.
- O Worked as Lecturer at **Maharshi Goutam College**, Bhlwara (Raj.)from July 2016 to March 2018
- O Workrd as Lecturer **Sushila Devi Mathur College (SDM)**, BHILWARA, from July 2015 to April 2016
- O Worked as a PGT. **July 2015 to Feb 2015** in **Mahila Ashram Public School** Bhilwara
- O Teaching undergraduate and post graduate in the faculty of **Botany** as Guest Lecturer (Sanvida Based) since **Oct. 2003 to March 2004** at Govt. Bhagat Singh College, Jaora MP. Vikram University, Ujjain (MP)
- O Teaching Biology as PGT July. 2002- Feb. 2003 **Saraswati Shishu Mandir**, Jaora (MP)

Non-recognized:

Experiences as a faculty of NEET and XI-XII Biology

- O Two years' experience in IPS institute Nagori Garden Bhilwara for PGT bio.2006-2008.
- O Three years' experience as Director of MODI Institute of Science (Bhilwara, Raj.) for X-XII (PMC, PCB), VI-VII (CBSE) as well as faculty.

- Online tutorial services also provided in covid 19.well experience to conduct classes hybrid mode/Online mode at Google meet, Zoom app. and live stream on you tube channel.

2. Professional Experiences:

Director at: MODI INSTITUTE OF SCIENCE, BHILWARA (2019 – 2022)

Description;-

- Founded and managed a coaching institute with a primary focus on academic (VI-VIII, IX, X and XI, XII (PCM, PCB) CBSE &RBSE and competitive exam preparation (NEET), NET-CSIR-Life Sciences.
- Successfully implemented and oversaw the institute's operations, achieving significant growth and accomplishments during the initial years.
- Institute was established primarily for Committed to supporting and nurturing exceptional talent by offering scholarships to deserving students from local schools and also needy students.
- Demonstrated adaptability and crisis management skills by temporarily suspending institute operations due to the COVID-19 pandemic.

RELEVANT EXPERIENCE /Other Professional Experience ;

**(1). Registered as an External Examiner in MDSU University, Ajmer from 2018
Institutions lists where taken examination as an External (MDSU registered):**

1. S.M.M Girls College, Bhilwara (Ra.)

1. External Examiner – BSc (CBZ) – I year Botany Practical Examination 2017 Year: 30/01/17 to 01/02/17

2. M.L.V.Govt.College, Bhilwara (Raj)

1. External Examiner – BSc (CBZ) – I Botany Practical Examination 2017

2. External Examiner – BSc (CBZ) – III Botany Practical Examination

2020

i. Six Days Examination from 3 to 8 February 2020

ii. Batch no. 4, 5, 6,7,8,9(total 6 days for about 80 students)

2020

3. External Examiner – BSc (CBZ) – I Botany Practical Examination

12 Feb to 15 Feb.

2022

4. External Examiner – BSc (CBZ) – III Botany Practical Examination

06/06/2022 to 7/06/2022

3. Smt. Susheela Devi Mathur PG Girls College (SDM) Mahila Ashram, Bhilwara

- 1. Examiner – BSc (CBZ) – III Botany Practical Examination 2018
19/01/2018 External**
- 2. Examiner – BSc (CBZ) – III Botany Practical Examination 2018
25/01/2018**
- 3. Examiner – BSc (CBZ) – I Botany Practical Examination 2024
16-03-2024 urday**
- 4. Examiner – BSc (Biotechnology) – I Botany Practical Examination
2024 16-03-2024 Saturday**

4. Maharshi Goutam College, Bhilwara

- 1. Examiner – BSc (CBZ) – II Botany Practical Examination 2022
09/09/2022**
- 2. Examiner – BSc (CBZ) – I Botany Practical Examination 2022
29/09/2022**
- 3. Examiner – BSc (CBZ) – III Botany Practical Examination 2022
09/09/2022**
- 4. Examiner – BSc (CBZ) – I Botany Practical Examination 2022
10/03/2024**
- 5. Examiner – BSc (CBZ) – II Botany Practical Examination 2022
10/03/2024**
- 6. Examiner – BSc (CBZ) – III Botany Practical Examination 2022
13/04/2024**

Descriptions:

Responsibilities: Conducted examinations, assessed student performance, and provided evaluations for the BSc botany practical examinations. Ensured fair and unbiased evaluation of student work from 2014 to 2022 continuously in well reputed institutions. Here selected evidences attached.

4. ACHIEVMENTS:

(a) Academic

- Got first position in M.Phil Vikram University Ujjain (M.P.)
- G.D. Anklesaria Awarded for 1st position in MSc. at District level.
- Certificate of merit from ABVP for first position
- Silver medal awarded from Bhgat singh govt.P.G. College Jaora district Ratlam M.P.
- Certificate of merit top rank in University
- CR in college nominated.
- First position in seminar competition B.Sc. Final Year.

(b) Professional

1. Microscopic structure Model project Coordinator;-Praise on Achievement: By Evaluator and guest Dr.B.L. Jagetia,(HOD of Botany Department

Date: [January 21 -2022]

Place: Vidya Professional and Technical College, Palari, BHILWARA, RAJ.

Description:

Led a project to create and showcase intricate microscopic structure models designed to simplify complex concepts for students. These models provided a rare and visual means for students to understand and grasp the intricacies of microscopic structures.Praise on Achievement: By Evaluator and guest Dr.B.L. Jagetia,(HOD of Botany Department

2. Science fair I- 2022;Praise on achievement: By Evaluator and Chief guest Ashish Modi (Collector of Bhilwara)

Event Date: 28 February 2022

Place: MLV GOVT.COLLEGE, BHILWARA

Description:

Organized and supervised a unique science fair exhibition at MLV College, which garnered appreciation from the Collector. Designed and showcased innovative science models created by BSc (Bed) students under my supervision.Praise on achievement: By Evaluator and Chief guest Ashish Modi (Collector of Bhilwara)

The chief guest of the Science Fair, appreciated the models created under my supervision and praised the competence of both my students and me. And motivated and promoted for future innovative techniques to use with teaching like this.

5. Skills

COMPUTER PROFICIENCY-

You tube Channel; **Botany Mentor**, Video content and online content developer.

Video Editing and Creative Short effective video for events with video editing

1. **Technical skills**-MS Word, Excel and Power point RSCIT, Multimedia Skill.
2. **Content creation and Video editing**; Some videos links are mentioned here to follow and subscribe created by me.

Some E-contents and their link;-

YouTube Channel: BOTANY Mentor

https://youtube.com/@neetbio.bhilwara7827?si=FjHmo-_dNk4BJSID

Selected Video Samples:

1. **[B.Sc,B.Sc.B.ed. part II paper- I Diversity of seed plants (part-1)] -**
[<https://youtu.be/uiHXRKgsOrg?si=7mKRHbAh7yxlQYs>]
2. **[Best 3D models of botany] –**
[https://youtu.be/2ysGBxnJr68?si=rzEr7qE8M_zEk22w]
3. **[Cell organelles part II (BSc/BSc. Bed/NEET/Cytology)] -**
[<https://youtu.be/ISU7cLakfEo?si=pTsxPPilG apfbIPm>]

3. **Digital Marketing-**

Social media marketing-on Facebook, Instagram, Twitter, Linkdeine, Whatsapp, Mail.

4. **Technical Handling**

- Expertise in Staining Technique of Chromosomes.
- Expert in induced mutation through Chemicals in plants.
- Complete knowledge and good handling in cytology and Cytogenetic.
- Expertise in identify mutation in chromosome.
- Expertise in Mutation breeding to develop new varieties in Plants.
- Expert to develop a Polyploidy plants with use of strong carcinogen Colchicine.

6. **AREA OF INTEREST:**

- **Cytology, Cytogenetic, Chromosomal Aberrations, Mutation, Physical and chemical Mutagens, Molecular study.**
- **Development of Polyploids (Colchitetraploid) and the effect of Colchicine on genome.**
- **RESEARCH: Cytogenetics, Molecular study, Cytology, Induced Mutation, Chromosomal Abberations.**

- **M.Phil**:-Research Topic of Dissertation is “ The Effect of Gamma Radiation on the Chromosomes of *Chrysanthemum carinatum*. Under supervision of Prof.R.C.Verma (Cytogenetics) HOD and retd.VC of Vikram University.
- **PhD** (Pursuing):-The study the Effect of Gamma radiation, EMS and Colchicine on Chromosomes and Morphology of *Chrysanthemum carinatum*.

PUBLICATIONS: Research Papers;-03

1. Research article- Modi R.& Gugalia G., " **The Effect of Gamma radiations on Seed Germination and survival rate in *Chrysanthemum carinatum***" Indian Journal of Plant Sciences ISSN:2319-3824 vol.12.pp91-96.
2. Research Paper entitled " **Investigating the Impact of Ethyle Methene Sulfonate (EMS) on seed Sprouting and Plant Viability in *Brassica campestris*.**" International Journal of Creative Research Thoughts (*IJCRT*) ISSN: 2320-2882 vol.12 issue 17 February 2024.UGC approved journal number 49023(18).
3. Paper entitled " **Comprehensive Study of Ornamental Flowering Plants at Sangam University: A Botanical, Economic and Morphological Analysis**" in International Journal of Multidisciplinary Research (IJFMR) E-ISSN-2160 vol.6 issue 3.(May-June 2024)

PATENTS; 01

1. International

Title of the Invention; A Novel Tea Composition and Method for preparation

Publishing Date -12-01-2024

Application Number - 202311084620A

The patent Office Journal no.02/2024

Copy right: 1.

BOOK PUBLICATION; 01

1. A Book entitled " **Separation Techniques of BIOMOLECULES**" ISBN 978-93-5936-614-2 (RAVEENA PUBLICATION OPC PRIVATE LIMITED) for **UG** and **PG** students of Biotechnology, biochemistry, Pharmaceutical area, and Zoology and Botany is proceeding.

AMAZON: - As Author My Book on Amazon as Product for sell.

https://www.amazon.in/Separation-Techniques-BIOMOLECULES-Reena-Modi/dp/B0CLXVN9LV/ref=sr_1_1?crid=10RYEW9RXS0NV&keywords=Separation+technique+of+BIOMOLECULES&qid=1700116428&srefix=separation+technique+of+biomolecules%2Caps%2C219&sr=8-#detailBullets_feature_div

PAPER PRESENTATION; 3

Paper entitled " A Review: Effect of Mutagens on Garden Chrysanthemum Species

" International Conference of Analytic and Interdisciplinary Research organized by Sangam University, Bhilwara held on 5-6 February 2021

National Conference-NCASET-2023 ;National Conference On“ Advances in Science, Engineering and Technology” Shree Balaji college of Engineering & Technology, Jaipur September 13,2023 .Oral Presentation on **Title-Effect Of Gamma Radiation on Seed Germination, Plant survival and Chromosomes in *Chrysanthemum species*.**

International Conference on Recent Trend and Innovations in Applied Sciences for Sustainable Development of Environment (RTIAS-24) on January 22-24 .Oral Presentation **Title – Chrysanthemum Chromosomes in Focus: Investigating Meiotic Changes and Induced Mutations under Gamma Radiation**

PROFESSIONAL DEVELOPMENT:

Successfully completed following Modules.

(A) MODULES, Provider: Elsevier

1. Course Title: **Thinking numbers in pictures: Data visualization for research Articles Completion Date:** [23 July, 2023]
2. Course Title: **Thinkingnumbers in pictures: Data visualization for research** [23 July, 2023]
3. Course Title: **How to submit and publish an OA article, Completion Date:** [28 July, 2023]
4. Course Title: **Make your data reusable - It's Not FAIR! Improving Data Publishing Practices in Research** Completion Date: [29 July, 2023]

Description: E-learning modules developed by global experts. Awarded a certificate of completion by Elsevier.

(B) CONFERENCE / WORKSHOP /FDP/ SYMPOSIA ATEENDED

Conferences ;- 4 Attended

1. **International Conference** on “ Environmental and climatic consequences: challenges and Mitigation Strategies” organized by Department of Science and Technology of Sangam University, Bhilwara on 21-22 Dec.2019. As Attendee.
2. **International Conference** of Analytic and Interdisciplinary Research organized by Sangam University, Bhilwara held on 5-6 February 2021
3. **National Confrence-NCASET-2023** ;National Conference On“ Advances in Science, Engineering and Technology” Shree Balaji college of Engineering & Technology, Jaipur September 13,2023

4. **National Conference-NCASET-2023** ;National Conference On“ Advances in Science, Engineering and Technology” Shree Balaji college of Engineering & Technology, Jaipur September 13,2023

Workshops : 5 workshops attended;-

1. **Workshop cum Training** By **E-Cell (IIT-Kharagpur** Event) On Recombinant DNA Technology & Genetic Engineering conducted by Sangam University, Bhilwara on Dec.10 Oct.2022
2. **Workshop and Training Program** on **IP Awareness** under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION (**NIPAM**) on 28 Feb. 2023
3. **Workshop** on “ Research Ethics Tools & Altimetrics” organized by internal quality Assurance Wednesday.
4. National seminar on “ COMMON SENSE \$ITS APPLICATIONS on “ January 5-6, 2024 jointly Organized by Department of Public Administration. Mohanlal Sukhdia University, Udaipur and Internal Quality Assurance (IQAC) & Research Cell Sangam University, Bhilwara.
5. **Workshop on Mega Skill & Entrepreneurship Training Program** “ Invest in Women, Accelerate Progress ” Nurturing Youth ,Empowering Women & Sustaining Future Organized by Laboratory of Public Health Entomology, Department of Zoology, Mohanlal Sukhadia University, Udaipur Rajasthan, India

FDPs-4 Attended;-

1. **FDP (Five Days)** “ NAAC Assessment &Accreditation Framework” held from 4 to 8 July, 2023 organized by IQAC cell SDM PG College, Bhilwara.
2. **FDP (Five Days) Training Program** on “ STATISTICAL ANALYSIS WITH EXCEL” organized by RESEARCH FOUNDATION OF INDIA & RFI – CARE from 29 September to 03 October 2023.
3. **FDP (Ten Days)** Training Programme on “ **Exploring Dynamics National Education Policy 2020**” With reference to NAAC perspective organized by RESEARCH FOUNDATION OF INDIA & RFI – CARE from 15 November to 24 November 2023.
4. **FDP (five Days)** Training Program on **INNOVATIVE TEACHING AND LEARNING PEDAGOGGY**, organized by RESEARCH FOUNDATION OF INDIA & RFI-from 9 January to 13 January 2024.

5. **FDP(Seven Days)** FDP/Training Program On “ Practical Aspects of ICT Tools & Online Teaching in Current Scenario ” on Wed May 29 - Tue Jun 4, 2024 organized by RESEARCH FOUNDATION OF INDIA & RFI.

Seminars/Webinars: 3 Webinars attended

1. Webinar on Botany “ Response of *Cicer aritrinum L* to Plant Growth Regulators and Mineral Nutritions” Advance Plant physiology and Biochemistry. On 11-12-2023
2. Webinar on Navigating bihar’ s Weather Moods;From foggy winters to thunderous summersand beyond-Building Early warning Systems” on 09-12-24. Organized by Depaertment of Physics SOBAS.Sangam university.
3. International Webinar on “ Effective Research writing” on 15-12-24 Organized by School of basic Sciences,Department of Chemistry.SU.Resource person was Prof.Gareth Dyke.

SYMPOSIA – 1

NEP-2020 Implementation @ Sangam university, May 11 , 2024 organized by School of Pharmacy,Sangam University ,Bhilwara.

Professional Achievement in Sangam University

- **Member of Registration Committee in International conference (RTIAS)** on Facilitated the registration process for the international conference (RTIAS), garnering participation from my network of contacts based on my previous role.
- Assistant Professor/Councelling and telecommunication] at City Office 1 in 2023-24
- Executed phone calling and counseling responsibilities to support prospective more admission in different courses of University.
- Played a key role in providing information, guidance, and resolving queries, contributing to successful student enrollment – Like M. Sw. BBA.BCA, M.Sc. Botany and M.Sc. Zoology.

ROLES AND RESPONSIBILITIES (AT SANGAM UNIVERSITY)

- Counseling and telecommunication at city office 1 of SU Bhilwara during period of admission process, from 26-05-2023 to 15-08-2023.
- Mentor of B.Sc.(CBZ) VI semester,2023-24

Responsibilities in Sangam University-Assistant Professor (BOTANY) at [SOBAS] School of Basic and Applied Sciences

1. Conducting engaging lectures, facilitating discussions, and supervising Minor Research Projects for MSc. Students of M.Sc. Botany III Sem IV sem.
2. Providing mentorship for Bsc VI Sem students of 2023-24.

Odd semester 2023-24

1. BSC0104/BSBO107 Diversity of Plants (Microbes, Algae, Bryophytes, Pteridophytes and Gymnosperms)
2. BSCIII Sem-Plant Anatomy and Embryology
3. MSBO 101- Biology and Diversity of Plants(Microbes, Algae and Fungi)
4. MSBO 103- Cell Biology and Biochemistry
5. MSBO 312- Plant Tissue Culture
6. MSBO 315-Applied Phycology
7. MSBO 317 Pharmacognosy of Plants

Even semester 2023-24

1. BSC204/BHBO201/BHCO201 -BSc. (cbz), B.Sc. Botany (H) Plant Taxonomy
2. BSC404-Botany IV (Plant Physiology)
3. BSC643A- Economic Botany and Biotechnology
4. MSBO201-Genetics and Evolution
5. MSBO203-Structural and Reproductive Plant biology
6. MSBO402 – Techniques in plant sciences
7. MSBO 411 Advance Plant Pathology

PERSONAL PROFILE –

Father' s Name : Mr. Purshotam Modi (Businessman)

Husband' s Name : Mr. Pankaj Bhawariwal (B.Com. LL.B, PGDCA)
Owner at CYBERNETICS (Graphic Designer in Bhilwara) from 24 years.

Date of Birth : 15-06-1979

Gender : Female
Marital Status : Married

Children : Anant Modi (Son)
preparation of NEET (Akash Institute, Kota) XI
moving.
Inaya Modi (Daughter)
Appear in Ist.

Nationality : Indian

Language known : Hindi, English, Regional languages of Bhilwara,
Ajmer and Ratlam (MP).

REFERENCES :

Field of Botany

- 1. Dr. Gunmala Gugalia**
Principal at S.D.M. College Bhilwara (Raj.)
Contact: 7597132876
- 2. Prof. B.L. Jagetiya**
Head of Department of Botany
M.L.V. Gov. College Bhilwara (Raj.)
Contact: 9413056535
- 3. Prof. R.C. Verma**
Retd. HOD of School of studies in Botany
Retd. VC of Vikram University, Ujjain (M.P.)
Contact: 9926462693

DECLARATION

I hereby declare that the above information furnished by me is true to the best of my knowledge and belief.

Yours Sincerely
(Mrs. Reena Modi)

Date: 29/05/2024

