



RBVRR WOMEN'S COLLEGE OF PHARMACY

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

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

EAMCET Code: RBVW | PGCET Code: RBVW1

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INSTITUTIONAL DISTINCTIVENESS

Institutional Distinctiveness Provide the details of the performance of the institute in area distinctive to its vision, priority & thrust.

Brief Summary:-

The institution is striving to enhance its performance in the research, in the pursuit of enriching the research inside the campus; the institution is having approval for the research center. A research lab was established separately to carry out industrial projects and PhD works. Osmania University allotted six research scholars to our college. The college is having six research supervisors to guide the research scholars. Our faculty continuously engages in research and tries to find out solutions for the existing problems. Due to the continuous efforts of the faculty 9 patents were filed one patent grant was received by the college.

RESEARCH:

The college is having excellent research facilities to carry out research on advanced topics such as targeted drug delivery systems, Herbal formulation developments and determination of pharmacological activities of various formulations. We are having research center with good research labs. Six research scholars are pursuing their Ph.D works in the research labs. The labs are equipped with two HPLC, Brook Field viscometer, Probe sonicator, Cooling Ultra centrifuge, Lyophilizer, FTIR, Projection microscope and Trinocular microscope and BOD Incubator. Total six labs are established to carry out research apart from the regular B-Pharmacy labs. The college is having 3 dissolution apparatus, 3 UV Spectrophotometers and 2 tablet punching machines. SOPS are well maintained and validated for every 6 months.

The organization encourages the faculty to carry out research for the benefit of society. Our faculty successfully prepared nanoparticle drug delivery system for Non-steroidal –Anti-inflammatory agents and filed patent for the work. Now we are working in the area of herbal

formulation development where we are applying novel drug delivery approaches for the herbal drugs.

Our college received one patent grant in the year 2022 for the development Invasomal drug delivery system for aspirin. The management encourages the faculty to write books and book chapters. Our faculty published 6 books, 6 online books and contributed book chapters.

FACULTY PROJECTS

Apart from the M-Pharmacy projects and the B- Pharmacy projects the faculty is motivated to carry out faculty projects to find out solutions for the existing problems. Till date 20 works were carried out more than 20 papers were published. Nine patents were filed and one patent grant was obtained. Faculty worked on developing nasal non aqueous formulation for Atorvastatin Calcium and filed patent. From 2019 onwards faculty are involved in innovative research and are filing patents. Some of the faculty projects are

- 1) Faculty Project: **Phytochemical screening and pharmacological evaluation of Butterfly pea flower (*Clitoria ternatea*) aqueous extract (22-23 academic year)**
- 2) **Development of vesicular drug delivery system for *Achyranthes aspera***
- 3) **Formulation and evaluation of herbal face pack**
- 4) **Formulation and evaluation of *Beta vulgaris* herbal lipstick**

Research Publications

In the last five years the organization has published 300 papers in national and International journal of high repute having more than 850 citations.

We encourage our faculty to present papers in National and International conferences. Our faculty presented papers in various International conferences conducted in Malaysia, Singapore, USA and Bangkok. Our faculty contributes their knowledge by delivering the lectures in National and International conferences.

Research collaborations

The college was recognized as research center in the year 2018. Under this, Research and development activities are initiated. Certain collaboration works were carried out. PhD program was started in the year 2019. Total six research supervisors are working in the college and

guiding 6 research scholars. Our College is collaborated with the following companies and Professional bodies for conducting research works and conferences.

Natco Pvt limited:- The college is having MOU with Natco Pvt limited and completed 15 research projects in collaboration

Lead Pharma Pvt ltd :- The college is having MOU with Lead pharma Pvt ltd and doing two research projects in collaboration

Department of pharmacology Collaborated with Inorganic chemistry Department, Osmania University for the project work on titled: **Antihyperglycemic study of ternary metformin complexes of ethylenediamine : Thermal, DNA binding and molecular docking studies”**.

Outcome: Project and Publication Collaboration. They published a paper.

The college is collaborated with Indian Pharmaceutical association, Telangana state branch organizing seminars, conferences and events such as National Pharmacy week celebrations since 2018.

Types of research works carried out in the college

- 1) Development of nanoparticle drug delivery system for Anti cancer drugs
- 2) Development of vesicular drug delivery system for NSAIDs and Anti fungal agents
- 3) Development of herbal formulations
- 4) Formulation of floating drug delivery system for anti hypertensive agents
- 5) Formulation of sustained release tablets with natural and synthetic polymers
- 6) Formulation of solid lipid nanoparticles for poorly permeable drugs
- 7) Ligand based virtual screening of pyrimidine derivatives in the treatment of NIPAH virus infections
- 8) Structure based virtual screening of coumarin derivatives as NHE (Na⁺/H⁺ exchange) inhibitors for the treatment of cancer
- 9) A Comparative study of Anti-stress activity of selected Ayurvedic formulations.
- 10) Extraction of Omega-3- fatty acids from flax seeds using microwave assistant treatment
- 11) Estimation of alcohol content in marketed Ayurvedic products
- 12) Formulation and evaluation of herbal oil and face creams

Consutancy Projects completed

- 1) Formulation of herbal hair oil for New life homecare
- 2) Determination of antifungal activity of Ayurvedic formulations used for the treatment of Black fungus for Dr.BRKR Government Ayurvedic medical college
- 3) Preclinical antihyperglycemic study of ternary metformin metal complexes of Ethylenediamin for Department of Chemistry, Osmania University

Ongoing consultancy projects

- 1) Preparation of Metadoxin 750 mg and 500 mg tablets
- 2) Preparation of baby nappy rash cream

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