



Name: Dr Archana Pathak

e-mail: gzsarchna@gmail.com

Designation: Assistant Professor

Qualification: M.Sc. (Chemistry), NET(CSIR-UGC), Ph. D

Ph. D from University of Rajasthan, Jaipur (Rajasthan)

Area of Research: Synthesis, spectral and antimicrobial studies of heterocyclic compounds

Research experience: 6 years

Teaching experience: 9 years (In M.Sc., B.Sc. and B.Tech. Classes)

Paper published in international journal: 7

Paper presented in international conference: 1

Paper presented in national conference: 3

Teaching interest : Spectroscopy, Photochemistry, Heterocyclic Chemistry, Pharmaceutical Chemistry, Polymer Chemistry, Environmental Chemistry

Post doctoral research experience: 2 students of M.Sc. Chemistry were completed major project.

10 students of M.Sc. Chemistry are enrolled for major project.

FUTURE RESEARCH PLAN

***Present research work is based on synthesis of heterocyclic compounds such as pyrimidine, pyrazolene, isooxazole and indole derivatives by microwave and Ultrasonic irradiation method.**

***Spectral studies of synthesized compounds by UV,NMR,IR and Mass spectroscopy.**

***Studies of pharmaceutical applications of the synthesized compounds.**

Technical experience

Oprate the instruments such as pH meter, UV Spectrophotometer, Conductivitymeter, Potentiometer and Polarimeter.

ACADEMIC QUALIFICATION

Qualification	Year	Passed with Division	Board/University/Institute	Major field of Study
Ph.D.	2014	Awarded	University of Rajasthan, Jaipur	Synthesis, spectral and antimicrobial studies of heterocyclic compounds
N.E.T.	2002	Passed	C.S.I.R.-U.G.C.	Chemical Sciences
M.Sc.	2002	I	University of Rajasthan	Chemistry
B.Sc.	1999	I	University of Rajasthan	Chemistry, Botany , Zoology
12 th	1994	I	Board of Secondary Education, Rajasthan	Chemistry, Biology, Physics
10 th	1992	I	Board of Secondary Education, Rajasthan	Mathematics, Science

Contribution to the Department:

*Academic in charge of the department.

*Member of souvenir publishing committee in Tarranum-2013

*Member of souvenir publishing committee in Tarranum-2014

List of Publications:

Paper Title	Journal Name/ Conference Name	National / International	Year of Publication, Volume, Page. No.
Synthesis, Characterization and studies of antimicrobial activity of Chalcone	American International Journal of Research in Formal, Applied & Natural Sciences	International International	15(1), 2016, 38-42
Synthesis, spectral analysis and antimicrobial studies of Indolethiacarbamides	American International Journal of Research in Formal, Applied & Natural Sciences	International	14(1), 2016, 47-49
Synthesis of Benzimidazole derivatives of chemotherapeutic approach	American International Journal of Research in Formal, Applied & Natural Sciences	International	14(1) 2016, 35-38
Synthesis of 1-Cyclobutanone derivatives	13 th international conference organized by M.L.S University, Udaipur, Rajasthan	International	2013
Manufacturing of Advanced design cookware to reduce their adverse effect on human health	National conference on "Latest Development in Materials, Manufacturing and Quality Control" Organised by GZS MRSSTU Bathinda	National	2015, 430-434
Green and sustainable marketing	National conference Organised by GZS MRSPTU Bathinda	National	2016, 240-244

Ecooxicity of Endosulfan	National conference on "Latest Development in Materials, Manufacturing and Quality Control" Organised by GZS MRSSTU Bathinda	National	2014,340-348
Synthesis and spectral studies of pyranones	International Journal of advanced research	International	2013,4(2),420-427
Synthesis and spectral studies of thiocarbamide derivatives	IJSER	International	2013 5(6) 320-325
Estimation of gross alfa activity of uranium in Udaipur, Rajasthan	International Journal of science and Engineering research	International	2012,6(3),332-339