

BRIEF BIO-DATA



Dr. Sushma Joshi

Retired Professor of Physics & Former Principal
Bhagat Phool Singh Institute of Higher Learning, Khanpur Kalan, Sonipat, Haryana

Personal Details

Date of Birth: 1 June 1966

Qualification: Ph.D. in Physics

Specialization: Physics, Solar Energy and Solar Thermal Systems

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Educational Qualifications

Ph.D. in Physics, B. R. Ambedkar University, Agra, 2018
Thesis: "Study of Mathematical Models of Solar Thermal Systems"

M.Phil. in Physics, M.D. University, Rohtak, 1988 –

M.Sc. in Physics, M.D. University, Rohtak, 1986

M.C.A., M.D. University, Rohtak, 2004

M.Sc. in Computer Science, M.D. University, Rohtak, 2003 –

APGDCA, M.D. University, Rohtak, 2002

B.Sc., M.D. University, Rohtak, 1984

Teaching & Administrative Experience

Dr. Sushma Joshi has extensive experience in teaching, academic administration and institutional leadership. She joined B.P.S.M. Girls College, Khanpur Kalan, on 3 November 1989 and subsequently served as Associate Professor and Professor of Physics at Bhagat Phool Singh Institute of Higher Learning.

She has served in several important academic and administrative positions, including:

Professor and Head, Department of Physics

Principal, Bhagat Phool Singh Institute of Higher Learning

Director, Regional Centre, Krishan Nagar, Rewari

Director, Youth & Cultural Affairs

NSS Programme Coordinator

Youth Red Cross Coordinator

Red Ribbon Club Coordinator

Member, Board of Studies

Member, Governing Body and Executive Council

Member/Chairperson/Subject Expert in various selection committees

Research & Academic Contributions

Her academic interests include solar energy, solar radiation, solar thermal systems, astrophysics, solid-state physics, nanostructured materials and applications of machine learning in solar energy.

She has contributed research papers to national and international referred/indexed journals and has authored/co-authored book chapters. Her doctoral research focused on mathematical models of solar thermal systems.

National & International Exposure

She was a member of the Government of India delegation to the 8th Commonwealth Ministers Meeting in Papua New Guinea in April 2013, where she participated in a leadership programme and delivered a lecture on the role of youth in leadership.

Awards & Recognition

Dr. Sushma Joshi has received numerous national and state-level awards and appreciation certificates, including:

NSS National Award – 2013, presented by the President of India

Best NSS Unit Award

State Awards for voluntary blood donation

State Award for Best NSS Programme Officer/Coordinator

National Women Excellence Award

Women of Substance Award

Academic Achievement Award

Bharat Gaurav Award

Women Empowerment Award

Mahila Shashaktikaran Puruskar

National Teacher Award

Rashtriya Pratibha Samman

Rashtriya Mahila Leadership Puruskar

National Rani Laxmi Bai Heroism Award

International Women Empowerment Award

Social & Youth Development Contributions

She has made significant contributions to NSS, youth development, women empowerment, social service, blood donation, cultural activities and community outreach. She has organized numerous national seminars, youth programmes and social activities and has served as a contingent leader at the national level.

Vision & Strengths

Her professional strengths include logical problem-solving, leadership, adaptability, working under pressure, initiative and effective implementation. Her vision emphasizes academic excellence, research and innovation, ethics, social commitment, inclusiveness and environmental sustainability.