

Brief Curriculum-Vitae



- Name** : Prof. Ashu Rani
- Designation** : Vice-Chancellor
- University / Institution** : Dr. Bhimrao Ambedkar University, Agra.
Formerly: Agra University, Agra
- E-mail** : vc@dbrau.ac.in
- Academic Qualification** : Ph.D. (1991 – Financial Assistance from Indo-US Sub-Commission), CSIR (J.R.F., S.R.F.).
- Professor (since 2008).
 - Director (Research).
 - Dean – Post Graduate Studies, Science, Student Welfare.
 - Head – Department of Pure and Applied Chemistry.
 - Member Academic Council, Board of Management, Board of Inspection for Affiliated Government and Private Colleges, Central Purchase Committee, Board of Governors – RUSA Project, Sports Board.
- Experience/ Positions held** :
- Convener – Academic and Administrative Audit, Inter Departmental Finance Committee, Selections and Career Advancements Committees, Grievances Committee, Unfair Means Committee.
 - *Nodal Officer/Convener – Internal Complaint Committee, I.P.R. Cell, Central Library Coordination, U.G.C. Cell, Women Cell, Board of Studies (Chemistry), Course on Curriculum (CoC).*

- Responsibilities (National and International Level)** :
- NAAC Assessor for National Level Accreditation of Institutions.
 - Scientist In-charge (Physical Chemistry Section) – Indian Chemical Society.
 - Nominee Hon'ble Governor of Rajasthan in different committees.
 - Member - Rajasthan State Level Quality Assurance Cell, Research Board - Technical Universities (Rajasthan & U.P.), Academic and Administrative Bodies at different Universities, Faculty Selection Board at different Universities, Moderation Committees at RPSC.
 - UGC e-pathshala – Expert of Atmospheric Chemistry.

International Visits :

Visiting Researcher / Professor –

- National Institute of Standard and Testing, Gaithersburg, U.S.A. (Atmospheric Chemistry).
- Institute of Anorganische Chemie Universitat, Witten/Herdecke Stockumer Germany (atmospheric Chemistry).
- Swedish Meteorological and Hydrological Institute (SMHI) – Sweden (Hydrological Modelling and Climate Adaptation).
- Centre for Climate Science and Policy Research (CSPR), Linkoping University, Sweden (Climate Change and Adaptation Policy in Indian Sub-Continent).
- Finnish Environment Institute (SYKE) – Helsinki, Finland (Sustainable Urbanization Programme for Hyper Local Urban Air Quality Sensors (IoT)).
- Department of Thematic Studies – Linkoping University, Sweden (Societal Impact of Climate Change and Vulnerability Assessment).
- KTH Royal Institute of Technology in Stockholm (Societal Impact of Climate Change and Vulnerability Assessment).

- World Water Week (2013), Stockholm, Sweden (Represented Indian Scientist Team).
- Research Visit at – Italy, France, Denmark, Russia (Climate Change Issues).
- *Lal Bahadur Shastri National Academy of Administration (LBSNAA)*, Mussoorie (Scientist Representative at ‘Scientist and Administration Interface Program’).

Academic Achievements – Patents/Publications/Projects :

Indian Granted Patents:

- Green catalytic process for aspirin synthesis using fly ash as heterogeneous solid acid catalyst.
- Greener catalytic route for the synthesis of α - α' dibenzylidene cyclohexanone by condensation of benzaldehyde and cyclohexanone.
- Fly ash supported bimetallic catalyst (Ni-Co): An efficient and recyclable solid acid catalyst for esterification reaction.
- Microwave irradiated phenyl benzylation using perlite based tungstophosphoric acid catalyst and a process for the preparation thereof.
- A novel solid base catalyst for microwave assisted Knoevenagel condensation of benzaldehyde with malononitrile.
- A novel process for converting industrial waste fly ash into value added ferromagnetic material.
- A method of synthesis of novel hybrid filler from fly ash waste polymer for polymeric applications.

Publications:

- No. of Research Papers Published in International Journals : 137
- No. of Research Papers Published in National Journals : 19
- Books Authored : 03

	<ul style="list-style-type: none"> ➤ Books edited/chapter : 06 ➤ Popular Articles : 03 ➤ Training Modules: 02 ➤ Papers presented in International Conference/Seminar/Workshop : 29 ➤ Papers presented in National Conference/Seminar/Workshop : 214 ➤ Invited Talks : 97
Research Projects (Total 3.75 Crore)	<ul style="list-style-type: none"> ➤ Government of Sweden (SIDA) ➤ Board of Research in Nuclear Sciences (BRNS – DAE), Mumbai. ➤ DST, New Delhi. ➤ DST, Government of Rajasthan, Jaipur. ➤ Ministry of Environment, Forest and Climate Change, Government of India. ➤ UGC, New Delhi. ➤ UGC – CRO Bhopal. ➤ Indo – Swedish Joint Research Project.
Research Guided	<ul style="list-style-type: none"> ❖ Ph.D. – 29 (Awarded), 07 (Working). ❖ M.Phil. – 16 (Awarded). ❖ M.Sc. – 316.
Awards and Recognitions	<ul style="list-style-type: none"> ❖ Professor A.S.R. Anjaneyulu 60th Birth Commemoration Award – ICS, Kolkata. ❖ Convention Award – Indian Chemical Society. ❖ Scientist-In-Charge – Physical Chemistry Section, Indian Chemical Society. ❖ Affiliate Membership – IUPAC. ❖ Life Membership – Institute of Chemists; Indian Soil Science Society, Indian Chemical Society.
Important MoUs Formulated for Academic Collaborations	<ul style="list-style-type: none"> ❖ Environmental Sciences through increased and active cooperation – University of Kota and Centre for Climate Science and Policy Research, Linkoping University, Sweden.

- ❖ Knowledge Exchange, Lab Technology Transfer and R&D for Fly Ash Utilization – Department of Pure & Applied Chemistry, University of Kota and DSCL Kota Testing and Consultancy for Environmental and Safety Audit – Chemical Testing and Research Laboratory (CTRL), Kota and Department of Pure & Applied Chemistry, University of Kota.
- ❖ Fly ash used as an active recyclable catalyst support for the synthesis of inflammatory drugs – Department of Pure & Applied Chemistry, University of Kota and NRDC, New Delhi.
- ❖ Research Consultancy to Small Scale Industries and University Students Training – Department of Pure & Applied Chemistry, University of Kota and Small Scale Industries, Kota.

- Linkoping University, Sweden.
- SYKE, Finland.
- Swedish Meteorological and Hydrological Institute, Sweden.
- University Sains Malaysia, Penang, Malaysia.
- National Centre of Science & Technology Evaluation, Ministry of Education and Science, Republic of Kazakhstan.
- Centro A.G.U.A., Universidad Mayor de San Simon, Cochabamba, Bolivia.
- SMEC Bangladesh Ltd, Dhaka, Bangladesh.
- Research Division of Technoscience Studies, Blekinge Institute of Technology, Karlshamn, Sweden.
- Indian Institute of Soil Sciences, Bhopal.
- IIT (ISM), Dhanbad.
- IUC, Indore.
- BARC, Mumbai.
- Defense Research & Development Laboratory (DRDL), DRDO, Hyderabad.
- CSMCRI, Bhavnagar, Gujrat.

Collaboration / Supports :

- SICART, Vallabh Vidyanagar, Anand, Gujrat.
- CSIR-IMMT, Bhubnshawar.
- C-FARM, New Delhi.
- National Research Development Centre (NRDC), New Delhi.
- TIFAC, New Delhi.
- Department of Scientific and Industrial Research (DSIR), New Delhi.
- IIT, Madras.
- NCL, Pune.
- Institute of Chemical Technology, Mumbai.
- Indian Association for the Cultivation of Science, Kolkata.
- C.V.Patel Research Centre, Vile Parle, Mumbai.
- UGC-DAE Consortium for Scientific Research, Indore.
- Sardar Patel University, Vallabh Vidyanagar, Gujrat.
- SAIF< Panjab University, Chandigarh.
- NEERI, Nagpur.
- TERI, New Delhi.
- GITAM University, Visakhapatnam.

(Ashu Rani)