

SELF APPRAISAL REPORT of Dr. BABITA JAMWAL

GOVT. COLLEGE FOR WOMEN, GANDHI NAGAR, JAMMU

1. **Department** : CHEMISTRY
2. **Name (In capital Letters)** : BABITA JAMWAL
3. **Father's Name** : Sh. PARMATAM SINGH
4. **Present Address** : 306-C Sainik Colony, JAMMU
5. **Permanent Address** : Vill. Suchani, P.O. Rahya, Distt. SAMBA, J&K
6. **Contact No.** : 9419141705
7. **E-mail** : jamwalbabita@gmail.com
8. **Designation** : ASSISTANT PROFESSOR
9. **Date of Appointment** : 19.10.2007 vide order no. 235-HE of 2007 dated 19.10.2007
10. **Date of Last Promotion with order No.** : 19-10-2017(Notionally), 19-02-2020(Monetarily)
Order No. :201-JK(HE) OF 2020 dated 16-04-2020
11. **Due date for Next promotion** : 19-10-2020
12. **Date and Place of Birth** : Feb. 19th, 1968; Basohli, Distt. Kathua
13. **Sex** : FEMALE
14. **Marital Status** : MARRIED
15. **Nationality** : INDIAN
16. **Category to which belongs** : OPEN
17. **Date of Joining in this college** : 31-10-2023 Vide Order No: 301-JK(HE) of 2023 dt 27-10-2023
18. **Qualification at the time of appointment in Higher Education Department** : MSc., B.Ed., M.Phil. , Ph.D.
19. **Area of Specialization** : ORGANIC CHEMISTRY
20. **PAN** : ADUPJ5179L
21. **Period of teaching experience : U.G.Classes (in Years)** : 16+
22. **Academic Qualification**

Examinations	Name of the Board / University	Year of Passing	Division/ Class/ Grade	Subject
High school/ Matric	CBSE	1983	1 st	English, Maths, Hindi, Science, Social Science
Intermediate	J & K State Board	1985	1 st	Physics, Maths, Biology, Chemistry
B.Sc.	University of Jammu	1987	1 st	Botany, Zoology, Chemistry

M.Sc.	University of Jammu	1989	1 st	Chemistry
B.Ed.	University of Jammu	1991	1 st	Education

23. Research Experience & Training

Research Stage	Title of work / thesis	University where the work was carried out	Year
M. Phil or equivalent	Synthesis of Some Novel Condensed Quinazolines	Jammu University	1992
Ph.D.	Synthesis and Applications of Heterogeneous Bimetallic Nanocatalysts in Organic Transformations	Jammu University	2020

24. Seminars, Conferences, Symposia, Workshops, Orientation Programme, Refresher Courses attended

1. Orientation Programme/Refresher Courses

S.No	Name of the Course	Place	Duration	Sponsoring Agency
1.	General Orientation Course	University of Jammu, Jammu	18-06-2008 to 23-09-2008	Academic Staff College, University of Jammu, Jammu
	UGC-HRDC Refresher Course in Chemistry	University of Jammu, Jammu	04-02-2013 to 23-02-2013	UGC-HRDC, University of Jammu, Jammu
3.	UGC Refresher Course in Disaster Management	University of Jammu, Jammu	07-12-2016 to 29-12-2016	Academic Staff College, University of Jammu, Jammu
4.	UGC-HRDC Refresher Course in EVS	University of Jammu, Jammu	27-11-2017 to 18-12-2017	UGC-HRDC, University of Jammu, Jammu
5.	UGC-HRDC Refresher Course in Chemistry	University of Jammu, Jammu	03-12-2018 to 23-12-2018	UGC-HRDC, University of Jammu, Jammu

2. Seminars, Conferences, Symposia, Workshops

- a) CRSI North zone meeting-Sept 2011
- b) 7th J&K Science congress-Oct 2011
- c) 101th Indian Science Congress at University of Jammu-Feb 2014;
- d) 10th J&K Science congress at University of Jammu-March 2015. "Biomaterial Based Organic/Inorganic Hybrid Composites : Sustainable Approach Towards The Development of Green Protocols for C-N And C-S Bond Forming Reactions".
- e) National Seminar on Science and Technology for Human Development at University of Jammu - March 2015;

- f) Workshop on Information Security in collaboration with NIELIT at Govt. College For Women Gandhinagar Jammu-Oct 2015;
- g) 4th J&K Women Science Congress organised by Govt. College For women, Gandhi nagar Jammu- Sept 2016. "Functionalized Biomaterial Based Heterogeneous Catalysts and Their Greener Perspective in Organic Synthesis".
- h) 11th National Conference of Indian Thermodynamics Society at Department of Chemistry, University of Jammu -Dec 2016
- i) 12th J&K Science congress-March 2017.
- j) International Multi-Stream Conference on "Research & Society" at Gujranwala Guru Nanak Institute of Management & technology, Ludhiana, Punjab Oct 2017.
- k) National Conference on "Skill Enhancement Courses & Employment Generation" at Govt. Degree College Kathua J&K Dec 2017.
- l) International Conference on "Advances in Mathematical, Physical and Computer Sciences" (ICAMPCS-2018) at Mahilpur, Hoshiarpur, Punjab Feb. 2018.
- m) 6th Biennial International Conference on "New Developments in Drug Discovery from Natural Products and Traditional Medicines" at NIPER Chandigarh, Punjab Nov. 2018.
- n) 6th J&K Women Science Congress on "Research and Women in Science, Technology and Mathematics- Representation, Challenges & Opportunities" at Govt. P. G. College for Women, Gandhi Nagar Jammu-Feb 2019.
- o) National Conference on "Emerging Trends in Chemical Sciences (ETCS) at Central University of Jammu, Samba, J&K, March 2019.
- p) JK Science Congress w.e.f 20-12-2019 to 22-12-2019 organised by University of Jammu.
- q) 5 day Faculty Development Program in "Emerging Technologies based upon Digital Teaching System" w.e.f 10-02-2020 to 14-02-2020.
- r) Attended two day Conference on "Integrated approach in Science and Technology for sustainable future" w.e.f. 27-02-2022 to 28-02-2022.
- s) Attended one day Workshop on Intellectual Property Rights organized by NIPAM, New Delhi on 03-03-2022.
- t) Attended one day Workshop on "Biofuels and Green Technologies" organized by Central University of Jammu on 08-03-2022.
- u) 4 day online FDP in "ICT based learning management System" organized by SPMR College, Jammu w.e.f 07-03-2022 to 10-03-2022.
- v) 2 day online Workshop on "Processing techniques in Fermentation" organized by IIIM, Jammu w.e.f. 28-03-2022 to 29-03-2022.
- w) Participated in 2 day International conference on "Chemical Advances for Sustainable Development" organized by UCW Koti, Hyderabad w.e.f. 12-4-2022 to 13-4-2022.
- x) One Day National Level Webinar on the topic "Climate Change" Organised by Govt. Degree College Thannamandi, J&K on 22-04-2022.
- y) One week online FDP on "Research Methodolgy" organized by Kamla Nehru Mahavidyalaya, Nagpur w.e.f. 02-05-2022 to 07-05-2022.
- z) One week online FDP on ICT tools for Effective Teaching and Learning" organized by Kamla Nehru Mahavidyalaya, Nagpur w.e.f. 23-05-2022 to 28-05-2022.
- aa) Attended two days National Seminar on "Emerging trends and practices in Environmental Conservation" on 5th and 6th June organized by Raj Rishi Autonomous college Alwar Rajasthan
- bb) Attended two day conference on "NEP" at PSPS Govt. PG College for Women, Gandhinagar Jammu on 26th and 27th July.
- cc) Attended one day workshop on "SPSS" on 08th sept 2022 organized by Govt. college for Education, Canal Road Jammu.

- dd) Attended a lecture on Financial Literacy Program organized by GDC, Kishtwar on 10-11-2022.
- ee) Attended an AICTE-Adobe FDP on digital creativity skills organized by Central University, Jammu on 14-11-2022.
- ff) Attended one day workshop on Indian Classical Music organized by SPIC MACAY on 25-11-2022.
- gg) Organized one day workshop on Financial Literacy Awareness workshop in collaboration with SBI , Kathua on 24-11-2022.
- hh) Attended an awareness programme on “Gender sensitization” organized by Home Science deptt. of the college on 31-12-2022.
- ii) Attended Six day 'Training Workshop on ICT', organised by IQAC cell of the college w.e.f. 28.04.2023 to 04.05.2023.

3. Webinars

- a) Webinar on “How the covid-19 will effect Childrens Mental Health by Govt.SPMR College of Commerce,Jammu.on 1st June 2020.
- b) One day webinar on “Issues, Challenges and Career Opportunities during and Post COVID-19” by GDC Women, Kathua on 26th June 2020.
- c) National Webinar on “Need of Yoga and Sports in Today’s Scenario”organized by Rashtramata Indira Gandhi Arts, Commerce and Science College, Jalna , Maharashtra on30th July 2020.
- d) National Webinar on “Better Things for Better Living Through Chemistry” -Scope, Importance, Applications and Career Options organized by Department of Chemistry and Pharmaceutical Chemistry,Dolphin (P.G.) Institute of Biomedical and Natural Sciences,Dehradun on 1st august 2020.
- e) National Mini Workshop Cum Webinar on E-Content Development organized by GGM Science College, Cluster University of Jammu, J&K on 16th August 2020.
- f) Judged a National level Collage making Contest on International Yoga Day organized by Govt. Degree College, Nowshera , J&K.
- g) Participated in E-Quiz on J&K-The Crown of India organized by LRG Govt. Arts College for Women, Tirupur, Tamil Nadu on 17th June 2020.
- h) One Day National Level Webinar on the topic " Grammar in Academic Writing:Few Insights" Organised by the PG Department of English, Government Arts and Science College Kallakurichi, Tamilnadu 606202 dated on 28th Mar 2021.
- i) One Day Workshop on “LET’S CARE” organized by G.G.M Science College in collaboration with The Art Of Living on 15th May, 2021.
- j) Two day online International Seminar on “Emerging Trends and Practices in Environmental Conservation” organized by Raj Rishi Automomous College, Alva r Rajasthan wef. 05-06-2022 to 06-06-2022 on World Environment Day.
- k) Attended two day webinar on “Hindi Sahitya aur Sangeet” on 6th and 7th June 2022 organized by Govt. Degree College for Women, Kathua.
- l) Attended an online workshop on “Intellectual Property Rights: IPR patents and designs process” on 25th July 2022 organized by NIPAM, New Delhi.
- m) Attended online lecture on “Managing stress through mediation: Process and benefits” on 18th August 2022 organized by Govt. Degree College for Women, Kathua.
- n) Attended an online workshop on “Intellectual Property Rights on 3.2.2023 under NIPAM organized by IPO, New Delhi.

Details of Research Publications

1. Novel Cu(0)–Fe₃O₄@SiO₂/NH₂cel as an Efficient and Sustainable Magnetic Catalyst for the Synthesis of 1,4-Disubstituted-1,2,3- triazoles and 2-Substituted-Benzothiazoles via One-Pot Strategy in Aqueous Media. Madhvi Bhardwaj **Babita Jamwal**, Satya Paul. *Catalysis Letters* **2016** 146:629–644.
2. Organic/inorganic hybrid stabilized Au-Pd bimetallic nanoalloy as highly active and sustainable catalytic system for enhanced performance in hydrogenation reactions. **Babita Jamwal**, Madhvi Bhardwaj and Satya Paul, *ChemistrySelect*, **2017**, 2, 5301-5310.
3. Cu @Fe₃O₄-TiO₂-L-dopa: A novel and magnetic catalyst for the Chan-Lam cross-coupling reaction in ligand free conditions. Harsha Sharma, Hitesh Mahajan, **Babita Jamwal** and Satya Paul, *Catal. Commun.*, **2018**, 107, 68-73.
4. Synthesis and in vitro biological evaluation of some novel triazole -based heterocycles as potential antimicrobial agents. Seema Sahi, Ravinderpal Kour Sodhi, **Babita Jamwal** and Satya Paul, *J. Heterocyclic Chem.*, **2018**, 55, 1596-603.
5. Diamines as interparticle linkers for silica-titania supported PdCu bimetallic nanoparticles in Chan-Lam and Suzuki cross-coupling reactions. **Babita Jamwal**, Manpreet Kaur, Harsha Sharma, Chhavi Khajuria, Satya Paul and J. H. Clark, *New J. Chem.*, **2019**, 43, 4919-4928.
6. Synergistic effect of Cr³⁺ on layered double hydroxide supported CuO nanoparticles for the oxidation of alcohols and hydrocarbons. Anu Choudhary, Nitika Sharma, Chandan Sharma, **Babita Jamwal** and Satya Paul, *ChemistrySelect*, **2019**, 4, 5276-5283.
7. Biginelli reaction via bis-ureide intermediate in low melting mixture. Hitesh Mahajan, **Babita Jamwal** and Satya Paul, *Revue Roumaine De Chimie*, **2019**, 64(7):585-593.
8. "Pd Nanoparticles Decorated on ZnO/Fe₃O₄ Cores and Doped with Mn²⁺ and Mn³⁺ for Catalytic C-C coupling, Nitroaromatics Reduction, and the Oxidation of Alcohols and Hydrocarbons". Manpreet Kaur, Chandan Sharma, Nitika Sharma, **Babita Jamwal**, Satya Paul, *ACS Applied Nano Materials*, **2020**.

25. Extension work / Community Service

- Worked as an associate NCC officer (ANO). Conducted institutional training of cadets. Trained the cadets to participate in Best cadet competition, cultural activities, briefing and debates.
- Prepared the cadets to participate in social activities like blood donation, visits to orphanage, old age homes, tree plantation etc.
- Coordinated "Soft skills and personality development course" for the students, conducted by Central University of Jammu under Industrial Skill Centre in the current year.
- Coordinator of Industrial Skill Centre, Convenor of Cultural committee, Research Committee, Co-convenor of Ist Sem. Admission committee 2020-2021, Convenor of Admission committee of 1st Semester for the session 2021-22 and Women Grievances Redressal, Discipline committee, IQAC committee.

26. Other Activities

- a) Conducted online inter-collegiate quiz competition in Chemistry for the students of B.Sc. 6th semester on 26-08-2021.
- b) Conducted online inter-collegiate quiz competition in Chemistry for the students of B.Sc. 6th semester on 21-09-2021.
- c) Attended Board of Studies Meeting at University of Jammu on 09-11-2021.
- d) Organized a lecture on National Science Day in collaboration with Science Club on 28-02-2022.

- e) Organized Poster making competition on the occasion of National Safety Day on 04-03-2022.
- f) Being coordinator of Industrial Skill Centre, conducted online exam and viva of students of “Soft skill and personality development course” in collaboration with Central University of Jammu on 12-03-2022.
- g) Organizing member of two day National conference on ‘Swantrata Sangram aur Hindi Sahitya, organized by GDC for Women Kathua wef 28-03-2022 to 29-03-2022.
- h) Attended Board of Studies Meeting at University of Jammu on 15-02-2023.
- i) Organised Industrial visit for chemistry students of 2nd, 4th and 6th Sem wef 11-12th May 2023 at Industrial area, Kathua.
- j) Being a member of Organising committee, conducted one day National Seminar on "Climate Change and Disaster Risk Reduction" in the college on 19.05.2023 and presented a paper on the Topic "Chemical Connections to Climate Change".

27. Awards and Achievements:

1. Ist position in NCC training at Officers Training Academy, Gwalior-2003.
2. Best NCC Officer Award and Director General NCC commendation -2009;
3. DDG NCC (J&K NCC Directorate) commendation-2009.

28. Membership of Scientific Societies : Member of the Indian Science Congress Association (ISCA), Kolkata - 700017, India. Membership No: **L33470.**

29. Book Publications : Nil

30. Patents: Nil

31. Research Projects (Minor / Major Project): Nil

Dr. Babita Jamwal