

**GOVT. COLLEGE FOR WOMEN, KATHUA**

**SELF APPRAISAL REPORT**

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** : 21-09-2019 Vide Order No: 516-HE of 2019 dt 11-09-2019
18. **Qualification at the time of appointment in Higher Education Department** : MSc., B.Ed., M.Phil.
19. **Area of Specialization** : ORGANIC CHEMISTRY
20. **PAN** : ADUPJ5179L
21. **Period of teaching experience : U.G.Classes (in Years)** : 13+
22. **Academic Qualification**

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

M.Sc.	University of Jammu	1989	1 <sup>st</sup>	Chemistry
B.Ed.	University of Jammu	1991	1 <sup>st</sup>	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

- CRSI North zone meeting-Sept 2011
- 7th J&K Science congress-Oct 2011
- 101th Indian Science Congress at University of Jammu-Feb 2014;
- 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".
- 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, Gandhinagar 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.

### 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 on 30th 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 Autonomous College, Alwar Rajasthan wef. 05-06-2022 to 06-06-2022 on World Environment Day.

#### Details of Research Publications

1. Novel Cu(0)–Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>/NH<sub>2</sub>cel 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 @Fe<sub>3</sub>O<sub>4</sub>-TiO<sub>2</sub>-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 Cr<sup>3+</sup> on layered double hydroxide supported Cu<sub>0</sub> 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/Fe<sub>3</sub>O<sub>4</sub> Cores and Doped with Mn<sup>2+</sup> and Mn<sup>3+</sup> 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 1<sup>st</sup> 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. 6<sup>th</sup> semester on 26-08-2021.
- b) Conducted online inter-collegiate quiz competition in Chemistry for the students of B.Sc. 6<sup>th</sup> 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.

## 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