



GOVERNMENT COLLEGE SIROHI

Name of Faculty Member- Dr Gayatri Prasad

Name of Academic Department- Chemistry

Department Room No.- 116

Phone (Office)- 02972-221684

Phone (Residence)- 02972-294126

E-Mail- gayatri.pd@gmail.com

Personal webpage-



Qualifications: -

Degree	Name & Place of University	Year
Ph.D.	Central Salt and Marine Chemical Research Institute (CSMCRI) and Bhavnagar University, Bhavnagar (Gujarat)	2010
NET-JRF	CSIR-UGC	2004
Post Graduate (PG)	Mohan Lal Sukhadia University, Udaipur	2003
Under Graduate (UG)	Mohan Lal Sukhadia University, Udaipur	2000

Areas of Interest/ Specialization-

- Research interest is focused on the development, characterization, and applications of polymer hydrogel. Especially in the study of swelling kinetics of hydrogel sensitive to stimuli and their application in drug delivery systems
- Synthetic organic chemistry
- Medicinal chemistry
- Natural polymers based sustainable new and advanced materials

Teaching Experience (Years): - UG- 13 and PG- 13

Supervision of Awarded Doctoral Thesis (Nos): - NA

Under Progress (Nos): - 02

Awards and Honours: - Junior Research Fellowship (CSIR)

Academic Responsibilities at the College: - Nodal officer of college online admission committee, Member of UGC, NAAC, AAP, AISHE, IQAC. Skill development committee Convener Alumni Association, Convener website committee of GCS.



GOVERNMENT COLLEGE SIROHI

Extra-Curricular Activities: - Member of Games and Sports Committee, Cultural Programme Committee, College Beautification Committee etc.

International/National collaboration (select collaboration): -

Research Collaboration with

1. CSMCRI,
2. Manipal University, Jaipur,
3. MLSU, Udaipur

Best Peer Reviewed Publications (up to 5): -

1. **Gayatri Prasad.**, Kamalesh Prasad., Ramavatar Meena., Siddhanta, A. K. Facile preparation of *Chaetomorpha antennina* based porous polysaccharide-PMMA hybrid material by radical polymerization under microwave irradiation *J. Mater. Sci.* **2009, 44, 4062.** E- ISSN No. **1573-4803**
2. Siddhanta A. K. *, Kamalesh Prasad, Ramavatar Meena, **Gayatri Prasad**, Gaurav K. Mehta, Mahesh U. Chhatbar, Mihir D. Oza, Sanjay Kumar, Naresh D. Sanandiyaa. Profiling of cellulose content in Indian seaweed species. *Bioresource Technology*, **2009, 100, 6669-6673.** E-ISSN No.: **2249 -1929.**
3. Vaibhav Bhatt, **Gayatri Prasad**, Hardik Bhatt and Ajay Sharma. Quantification of potential genotoxic impurity in imatinib mesylate by LC-MS/MS. *Acta Chimica & Pharmaceutica Indica.* **(2013).** E- ISSN No: **2277 - 288X.**
4. Maneesh Kumar, Praveen Singh Gehlot, Deepika Parihar, Praveen K. Surolia, Gayatri Prasad, Application of grafted cellulosic material as bioadsorbent for segregating of non-desirable content from waste water – A review. *Materials Today: Proceedings* <https://doi.org/10.1016/j.matpr.2021.01.168>

Recent Peer Reviewed Journals/ Books-

1. Siddhanta, A.K., Meena, R., **Gayatri Prasad.**, Chhatbar, M.U., Mehta, G.K., Oza, M.D., Kumar, S., Prasad, K. Development of carbohydrate polymer based new hydrogel materials derived from seaweed polysaccharides in “*Carbohydrate Polymers: Development, Properties and Applications*” Ryouichi, I., Youta, M., (Eds), **NOVA Science Publishers Inc., New York, 2010, pp 555-582**
2. Gayatri prasad, Sanjay Kumar. Polysaccharide of Some Green Seaweed of Indian Coast. – Physicochemical studies on polysaccharide of *Cheatomorpha antennina* and *Chamaedoris auriculata*. **LAP LAMBERT Academic Publishing, 2013. ISBN: 978-3-659-42553-0.**



GOVERNMENT COLLEGE SIROHI

Patent (if any)- NIL

Research Projects (Minor/Major/any other)-

Sr. No	Title of the Project	Year	Funding Agency
1.	NIL	NA	NA

Paper Presentations/Participation in Conferences/Seminars/Workshops-

1. **Gayatri Prasad**, Sanjay Kumar, R. Meena, K. Prasad and A. K. Siddhanta* "*Synthesis of PVP pendant seaweed polysaccharide hydrogel and characterization*" (Participated and present a paper in "44th Annual Convention of Chemists 2007" during December **23-27, 2007 at Mahatma Gandhi Institute of Applied Sciences Jaipur (Rajasthan).**
2. **Gayatri Prasad**, R. Meena, K. Prasad and A. K. Siddhanta*. "*Water based synthesis of genipin crosslinked hydrogel of green seaweed derived rhamnogalactoriboarabinan*" (Participated and present a paper in "XXIII Carbohydrate Conference" during December **3-5, 2008 at Department of Chemistry Bhavnagar University, Bhavnagar (Gujarat).**
3. **Gayatri Prasad**, A. K. Siddhanta and Ajay Sharma "Modification of *Chaetomorpha* and *Chamaedoris* polysaccharides blend through crosslinking reaction with genipin" Presented a paper in Organic section at 29th Annual conference of Indian Council of Chemists held at Dept. of Chemistry, **Punjab University, Chandigarh from 19-12-2010 to 21-12-2010.**
4. Hardik Bhatt, **Gayatri Prasad**, Vaibhav Bhatt and Ajay Sharma. Presented a poster entitled "Determination of some Inorganic compounds by a Newer Photochemical method using Sodium Nitroprusside" in Inorganic section at 31st Annual conference of Indian Council of Chemists held at Dept. of Drug Research, **Saurashtra University, Rajkot, Gujarat from 26-12-2012 to 28-12-2012**
5. Hardik Bhatt, **Gayatri Prasad**, Vaibhav Bhatt and Ajay Sharma. Presented a Paper entitled "Determination of Thiomallic acid by a Newer Photochemical method using Sodium Nitroprusside" in Inorganic section UGC Sponsored National Conference on "Recent advances in industries & chemical education held at Dept. of Chemistry, R. R Mehta College of Science, **Palanpur (Gujarat) from 02-02-2013 to 03-02-2013.**

Other Relevant information's: - Act as Coordinator of VMOU, KOTA.