

PROFILE OF THE FACULTY MEMBER

1. Name : Dr. PreetiSoni
2. Designation : Assistant Professor
3. Department : Chemistry
4. Gender : Female
5. DOB &Age : 25-04-1974 & 47
6. Contact number &email : 9907176499 & preetis419@gmail.com
7. Date & Type of First Appointment : 01-09-2014 Regular
8. Official address: Sant Mata Karma Ward, Bhatapara (C.G.) 493118
Website Address <https://preetischemistry.teachmint.in>
9. Residential address : Shanti Nagar Bilaspur (C.G.)



Academic profile

9. research guide Pt. RavishankarShukla University, Raipur (C.G.),
9. Area of specialization : Environmental Chemistry, Organic Chemistry
10. Membership : Member of expert panel in interview board of cimfr, bilaspur unit (2016)
Member of expert panel in interview board of cimfr, bilaspur unit (2017)
Member of expert panel in interview board of cimfr, bilaspur unit (2018)
Member of expert panel in interview board of cimfr, bilaspur unit (2019)
Member of local advisory committee at SEDI, ACF FROM 2018 ONWARDS
ACT (Association of Chemistry Teachers) Memb. No. 12251

1. Educational qualification(degree onwards) :

Degree	Subject	Institution/University
B.Sc.	Biology	Guru Ghashidas University Bilaspur (C.G.)
M.Sc.	Chemistry	Guru Ghashidas University Bilaspur (C.G.)
PhD	Chemistry	Guru Ghashidas University Bilaspur (C.G.)

2. Teaching experience:

Designation	Institution	Period of work	Experience in years
Assistant Professor	Govt. G.N.A.P.G.College, Bhatapara (C.G.)	01-09-2014 to Continue	19 years UG+PG

3. Participation in academic conferences/seminars/workshops:

S.n.	Topic	Organized by	date	remarks	level
1.	Recent Advances in Chemistry Research	Govt. Arts, Commerce And Science College Kota Bilaspur	18-20 Nov. 2001	presented	All india
2.	National Interdisciplinary Seminar	Govt. T.C.L PG College, Janjgir	02-03 March 2006	participated	national
3.	'Techno-economic Evaluation of Fermented Biobased Products : Vision 2020'	GGU Bilaspur	28-29 Jan. 2008	participated	national
4.	6th Chhattisgarh Young Scientist Congress in Chemistry	GGU Bilaspur	28-29 Feb. 2008	participated	university
5.	'Political Trends in Global Warming and Carbon Credit'	Govt. G.N.A.PG.College, Bhatapara	12-13 Jan 2011	presented	national
6.	'New Trends Effect on E-Commerce, Internet Banking and Business Sectors'	Govt. G.N.A.PG.College, Bhatapara	12-13 Jan 2011	participated	national
7.	Environment, Ecology & Remote Sensing	Govt. D.K. PG College, Balodabazar	11-12 Feb. 2011	presented	national
8.	Emerging Trends in Chemical Sciences, ('Environmental Pollution and its Hazardous Impacts on Soil, Water, Plant & Fishes around Hasdeo River with special reference to Pb and Cd toxicity'	Kalyan PG College Bhilai Nagar	18-19 Nov 2011	presented	national

9.	'Chemistry in our lives	Govt. Raghvendra Rao PG Sc. College, Bilaspur	01-02-2013	Feb.	Poster presentation	national
10.	Microbial Diversity : Exploration, Conservation & Application'	Govt. Raghvendra Rao PG Sc. College, Bilaspur	16-17-2013	Feb.	participation	national
11.	'Sustainable Development of Environment : A Multi-Disciplinary Approach'('Water Management and Environment'	Govt. G.N.A.PG.College, Bhatapara	26-27-2013	Feb.	presented	national
12.	Chemistry Teachers Training Workshop	Pt. R.S.S.U Raipur	06-08-2015	Oct.	participated	university
13.	Environment : Its Issues' ('CO ₂ Emmission : Cause of Pollution'	Govt. Pataleshwar College Masturi	02 Dec. 2015		presented	national
14.	'Sustainable Routes Out of Poverty - Past Experiences Future Challenges' ('Poverty Eradication : A Challenges')	Govt. G.N.A.PG.College, Bhatapara	26-27-2016	Feb.	presented	national
15.	'Enhancing 21 st Century Competencies'	Govt. T.C.L PG College, Janjgir	06-07-2017	Jan.	participated	national
16.	Relevance of History, Challenges and Conservation of Archaeological Heritage	Govt. D.B. Girls College (Autonomous) Raipur	15 Feb. 2017		participated	National workshop
17.	RUSA Workshop	Govt. Shahid Veer Narayan Singh College, Bilaigarh	11-2017	March	Invited talk	State level
18.	'Water, Energy and Environment For Sustainable Development Goals' ('Comparative Study of Physico-Chemical Parameters Of Water Near Cement Plants Of Chhattisgarh'	Dr. C.V. Raman University Kota Bilaspur	25-26-2018	Sep	presented	International symposia
19.	'Engineering, Science and Technology : Ideas, Innovations and Initiatives' ('Environmental and Health Hazards of Fast Food Consumption')	Chouksey Eng. College Bilaspur	26-27-2018	Oct.	presented	International conference Techno-A-Tech 2018
20.	"Online Courses through SWAYAM : Inclusiveness of all in Higher Education"	AtalBihariBajpai University Bilaspur	01 Oct. 2019		participated	One Day State Level Workshop
21.	"Recent Trends in Environmental Issues"review of recent trends in fly ash application.	D.P. Vipra PG College, Bilaspur	14 Oct. 2019		presented	National
22.	Advance materials for sustainable industrial and social applications NSAMSIS – 2020 (EFFECT OF	Govt. pt. shyamacharanshukla college,dharsiwa Raipur	17-18/01/2020		presented	national

	CEMENT DUST POLLUTION ON WATER BODIES AROUND BHATAPARA C.G.					
23.	Materials for environment (ICME – 2020) (UTILISATION OF FLY ASH TO CONTROL ENVIRONMENTAL POLLUTION	Govt, college,durgc.g.	v.y.t	24-25 /01/2020	presented	International conference
24.	56 th annual convention of chemists 2019 Recent trends in chemical sciences, (assessment of industrial pollutants in soil of Chhattisgarh.)	PT. RAVISHANKAR SHUKLA UNIVERSITY RAIPUR C.G.		14-16/11/2019	PRESENT ED	INTERNATIONAL CONFERENCE
25.	Operation and Maintenance of optical analytical laboratory equipments	Govt. D.B.GIRLS PG (AUTONOMOUS) COLLEGE,RAIPUR (C.G.)		6-10 jan 2020	participated	National workshop
26.	Therapeutics Studies of Phytochemical Components of OcimumTenuiflorum (Holy Basil)	Govt. D.B.GIRLS PG (AUTONOMOUS) COLLEGE,RAIPUR (C.G.)		17-18 Oct. 2024	Presented	International Seminar
27.	Fabricated Nanoparticles and organic matter : Properties and applications	National PG College Lucknow		24-26 Oct. 2024	Presented	International Conference
28.	NEP 2020 in Viksit Bharat @ 2047	Guru GhasiDas University Bilaspur (C.G.)		9-10 Nov. 2024	Presented	National Seminar
29.	Multidisciplinary Academic research and innovation. 5 TH ICMARI - 2024	Khunkhunji Girls PG College, Lucknow		29-30 DEC 2024	presented	International conference
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4. WEBINARS / Workshop FDP'S

s.no.	topic	institute	date	remarks	level
1.	e-quiz on self awareness about covid-19	Nss,shrilemdeopatilmahavidyalaya,mandhal NAGPUR	April, May 2020	participated	QUIZ
2.	Spitting kills campaign	ACF-alamelu charitable foundation	Apr-may 2020	Participated	CAMPAIGN
3.	Sustainable chemistry IWSC-2021	HOMI BHABHA CENTRE FOR SCIENCE EDUCATION (TIFR) MUMBAI	18 MARCH 2021	Presented	international
4.	Covid-19 pandemic awareness quiz	Ram sewaksinghmahilacollege,sitamarhi	May 2020	participated	QUIZ
5.	Covid-19 awareness quiz	Institute of engineering & technology	23/05/2020	participated	QUIZ
6.	New horizons in sustainable polymers,organicsynthesis,green chemistry and laboratory safety	Lt.karamveer dr. p.r.ghogrey science college dhule	23-24 may 2020	Expert talk	national
7.	Covid-19 online awareness quiz	Maharajah's college vizianagaram,Andhrapradesh	28/05/2020	participated	QUIZ
8.	Covid-19 pandemic general awareness quiz	New arts,commerce and science college,ahmedanagar	28/05/2020	participated	QUIZ

9.	Physical and mental hygiene: A practical approach towards pandemic prevention	Govt. E.V.P.G. College korba (c.g.0	28/05/2020	participated	NATIONAL
10.	Quality in teaching, learning and evaluation: A need for academic excellence	St. aloysiscollege, Jabalpur (m.p.)	29-30 may 2020	participated	national
11.	Laboratory safety practices	SIESCollege of arts, science & commerce, sionwest, mumbai	31 may 2020	participated	webinar
12.	Post covid scenario and atamnirbharbharat	J.Z.Shah&H.P.Desai commerce college, AMROLI	03/06/2020	participated	NATIONAL
13.	National level quiz cum awareness programme on covid-19	Govt. agrasencollege, BILHA	03-05/06/2020	participated	NATIONAL
14.	Analytical and Diagnostic tools in chemical and life sciences	Andhra University, Vishakhapatnam	05-06/06/2020	participated	NATIONAL (FDP)
15.	Environmental awareness Quiz	Dr. NGP of Technology COIMBATORE	05/06/2020	participated	QUIZ
16.	Online Chemistry Quiz	ShriShivaji Science and Arts College, Chikhli, Buldana	06/06/2020	participated	QUIZ
17.	Post Covid-19 World Environment: Prospects and Challenges for Sustainable Development.	Govt. V.Y.T. PG Autonomous College, Durg (c.g.)	5-7/06/2020	participated	International
18.	How to get Fastest Promotion Highest Increment	J.Z.Shah&H.P.Desai commerce college, AMROLI	07/06/2020	participated	National
19.	Material Science (IWMS-2020)	Kamla Nehru Mahavidyalaya, Nagpur	09/06/2020	participated	International
20.	VIRTUAL FACULTY DEVELOPMENT PROGRAM ON RECENT TRENDS IN ADVANCED Chemistry (E-FDP-RTAC2020)	University of Petroleum and Energy Studies, Dehradun	8-13/06/2020	Participated	FDP
21.	Emerging Challenges and Opportunities on Higher Education due to COVID-19 Pandemic	Govt. Digvijay Autonomous PG College, Rajnandgaon	13/06/2020	Participated	International
22.	Environmental Awareness-AQUA TRIVIA	Govt. Dr. W.W. Patakar Girls PG College, Durg (c.g.)	11-15/06/2020	Participated	QUIZ
23.	Drug Discovery, Development and Applications. (Journey of Fly-Ash: IFrom Waste to Best.)	KaramveerBhauraoPatil College, Vashi Navi Mumbai	15-16/06/2020	Presented	International
24.	Drug Discovery, Development and Applications. (Journey of Fly-Ash: IFrom Waste to Best.)	KaramveerBhauraoPatil College, Vashi Navi Mumbai	15-16/06/2020	Participated	International
25.	Emerging Trends in Chemistry Education and Research (ETCER)	WILSON'S COLLEGE, MUMBAI	25-26/06/2020	Attended	International
26.	How To Get a Copyright: A Step By Step Process	Prestige Institute of Management and Research, INDORE (MP)	29/06/2020	Attended	national
27.	Breaking barriers in Science	Kamla Nehru Mahavidyalay, Nagpur	14 feb 2023	participated	International Webinar
28.	Current trends in Green Chemistry	Bhatter college, Dantan	16 sept. 2024	participated	International seminar
29.	Online workshop on POSH	Tech Trainers And Testers Pune	13 sept. 2024	participated	Workshop
30.	Many Faces one Science	Jagat arts, commerce & I.H.P Science college, Goregaon, GONDIA	10 feb. 2026	participated	International Webinar
31.	Turnip innovation festival 2026	Turnip innovation, Kolkata west bengal	31 jan. 2026	participated	workshop
32.	Current trends in Green Chemistry	Bhatter college, Dantan	20 dec. 2025	participated	International seminar
33.	Advances in the application of Chemistry in biology and Drug Design	MrinaliniDattaMahavidyalaya, Kolkata, west bengal	15-17 jan. 2026	participated	3 day short term course
	Chalk t5o Click: Teachers guide to MOOC & E- learning Excellence	Manuscriptpedia	13-17 oct. 2025	participated	5 day FDP
34.	The Ethical Toolkit for scholar	UN sustainable development goals & Amity University of Engg. & tech.	06 aug, 2025	participated	International online workshop
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5.Seminar/Workshop Organised

s.no.	topic	institute	date	remarks
1.	National Higher Education Campaign Sponsored 'Maintenance and Reporting of Basic Data'	Govt. G.N.A.PG.College Bhatapara	02/03/2016	Organized as convener
2.	Chemistry of Drug Metabolism National Workshop	Govt. G.N.A.PG.College Bhatapara	05-06 /08/ 2016	Organized as convener
3.	(UGC - 12 th Plan) Sponsored 'Human Rights and Duties' workshop	Govt. G.N.A.PG.College Bhatapara	09/03/2017	Organized as organizing secretary
4.	(UGC - 12 th Plan) Sponsored 'Instrumentation and Maintenance of Equipments' workshop	Govt. G.N.A.PG.College Bhatapara	21/03/2017	Organized as convener
5.	(RUSA) Sponsored 'Quality Enhancement in Higher Education'	Govt. G.N.A.PG.College Bhatapara	03/08/2017	Organized as convener
6.	Human Periodic Table Display on playground	Govt. G.N.A.PG.College Bhatapara	30/09/2022	Guidance
7.	Value added course on "Chemistry in Daily life"	Govt. G.N.A.PG.College Bhatapara	12/01/2023 to 31/01/2023	Course co-ordinator

6.List of Research Papers Published in Research Journals

S.No.	Title	Name of Journal	Author	Vol./issue	Date
1.	"Studies on the effect of micro-nutrients on nutrient uptake and amino-acid contents in Soybean plant".	Research Journal of Chemistry and Environment, Indore (M.P.),	PreetiSoni, SalilUdaipure, Lalit Kumar Thetwar	Vol. 2 pp. 51-58.	, June 1998
2.	"Amelioration of acidic soil by fly ash for trace elements uptake and crop yield and increased protein content in Chick Pea (Cicerareitinum)".	Asian Journal of Chemistry, Sahibabad (Ghaziabad),	PreetiSoni, AjitaChakrabarty, L.K. Thetwar	Vol. 12, No., pp. 698-702.	3,July October 2000
3.	Water Resource Management in Chhattisgarh State of India : Strategies for Sustainable Development"	Journal of Global Resources	Dr.PreetiSoni	, Vol. 4, ISSN: 2395-3160 (Print), 2455-2445 (Online),	January 2017, pp. 63-70.

4.	“Impulsive Excitation Of Mechanoluminescence In Irradiated Sr(Vo3)2 : Tb Phosphors”	Naveen Shodh Sansar, Neemuch (M.P.),	Dr. Preeti Soni, Vikas Gulhare, R. S. Kher., S. J. Dhoble	Vol. I, Issue XVIII,	April to June 2017, pp. 39-42.
5	Determination of Arsenic, Antimony, Lead & Physiological parameters in ground water of Bhatapara (C.G.) MR21627105037	International Journal of Science & Research	Dr. Preeti Soni	ISSN (Online): 2319-7064	Vol.10 Issue 06 June, 2021 pp 1687-1688
6	Phytochemical Analysis of Heliotropium Indicum for its Medicinal Properties. MR22121155324	International Journal of Science & Research	Dr. Preeti Soni, Shri Jitendra Yadav	ISSN (Online): 2319-7064	Vol.11 Issue 12 Dec, 2022
7	Environment And Its Pillars of Sustainability MR2431514101	International Journal of Science & Research	Dr. Preeti Soni, Dr. Vikas Gulhare	ISSN (Online): 2319-7064	Vol.13 Issue 03 March 2024 PP 1032-1035
8.	Soil analysis of madkudweep. MR211016201850	International Journal of Science & Research	Dr. Preeti Soni	ISSN (Online): 2319-7064	VOL. 10 Issue 10 October 2021 PP 846-848
9.	Phytochemical analysis of Ocimum Tenuiflorum (Tulsi) : A Review MR25619135131	International Journal of Science & Research	Dr. Preeti Soni	ISSN (Online): 2319-7064	Vol. 14 issue 6 June 2025 pp 1363-1364
10.	Food Industrial waste based calcium oxide nanoparticles : a sustainable material from eggshells for futuristic applications.	International journal “ Revistamateria “ e – article 20250618	Parivendhan Inbakumar, Sengottuvelu Ramesh, Sunesh Narayanperumal, Preeti Soni	ISSN – 1517 – 7076	28/10/2025
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7. List of book chapters / Book Published with ISBN NO.

S.No.	Title	Name of Journal/Publication	Author	Vol./issue	Date
1.	“A Review : Environment and Environmental Movements”. Sustainable Development : Theory, Praxis and	Asian Press Books, Kolkata	Dr. Preeti Soni	ISBN: 978-81-950855-4-5, pp. 38-42.	1 st Edition March 2021

	Solution				
2.	Studies of physiological parameters of different soil samples of bhatapara	Organized by govt. bilasa girls college, Bilaspur (c.g.)	Dr. PreetiSoni		
3.	Zindagikasafarnama	Evincepub publishing	Co- editor		
4.	Multidisciplinary Approach in Research Pear Reviewed book	Red Shine Publication	Chief Editor	ISBN: 978-91-89764-08-8	May-2023
5.	Edwin group of journals	Edwin group of journals	Editorial Member		1 st Nov. 2023
6.	Basics of Organic Chemistry	Infinite Publication	Dr. PreetiSoni	ISBN: 97881964364-14	July-2023
7.	Environmental Organic Chemistry	Infinite Publication	Dr. PreetiSoni	ISBN: 9788196-581206	Sep. 2023
8.	Bioorganic & Medicinal Chemistry	AGPH Books	Dr. MangeshPandurangDushing, MsVarshaTekdasShewate, Dr. PreetiSoni , Dr. PrashantMundeja	ISBN: 9788197-747625	Aug. 2024
9.	A Textbook of Environmental & Pollution Science	RK Publications	Dr. PrashantMundeja, Dr. PreetiSoni, Dr. VivekanandPandey, Dr. ThanigaivelSundaram	ISBN: 978-93-49701-55-7	2025
10.	VAC – Chemistry in Daily life (eng. Medium)	Civil Publication	DrPreetiSoni, Prof. SantoshBanjare	ISBN: 978-93-5525-309-5	2025
11.	VAC – Chemistry in Daily life (Hindi Medium)	Civil Publication	DrPreetiSoni, Prof. SantoshBanjare	ISBN: 978-93-5469-291-8	2025
12.	SEC – Green Chemistry (Hindi Medium)	Civil Publication	DrPreetiSoni, Dr, Deepak kumarYadav	ISBN: 978-81-996794-1-2	2025
13.	Academic Research & Innovation “A Catalyst for Societal Advancement” in the book named- Bridging Disciplines : Innovations in Material Science, Environmental Sustainability & Societal Studies.	Aryabhata Publication House, Lucknow	DrPreetiSoni, Chapter - 04	ISBN : 978-93-95463-82-9	2025

8. Research work – review manuscripts

S.N.	Title	Name of Journal	Reviewed by	Vol./issue	Review Id
1.	Studies on kinetics of colour formation of asparagine-ninhydrin complex	International Journal of Science & Research	Dr. PreetiSoni	23 feb. 2023	275,
2.	Mediating effect of recycling behaviour on household attitude towards waste prevention	International Journal of Science & Research	Dr. PreetiSoni	23 feb. 2023	309
3.	Extraction Compositional Analysis And therapeutic Studies of Essential Oils Obtained from The Leaves of OcimumGratissimum And LeucasMartinicensis	International Journal of Science & Research	Dr. PreetiSoni	21 Sep. 2024	9928
4.	Ion Exchange Properties of Some New Chelating Resins From Cresol Thiourea Formaldehyde	International Journal of Science & Research	Dr. PreetiSoni	07 Oct. 2024	11059
5.	Synthetic Approaches for Preparation of Donor Acceptor Conjugated System : A Review	International Journal of Science & Research	Dr. PreetiSoni	23 Oct. 2024	Rc12269
6.	Production of polyurethane Foam from Natural Oil Biopolyol	International Journal of Science & Research	Dr. PreetiSoni	08 Nov. 2024	RC13536
7.	Application of polymer chemistry to Biomedicine	International Journal of Science & Research	Dr. PreetiSoni	24 Nov. 2024	RC14845
8.	Homogeneous Complex compounds of calcium nitrate with amides	International Journal of Science & Research	Dr. PreetiSoni	10 Dec 2024	RC16545
9.	Evaluation of Tear strength of room temperature vulcanizing maxillofacial silicone by incorporatives Different material an in-vitro comparative study	International Journal of Science & Research	Dr. PreetiSoni	27 Dec 2024	RC18191
10.	Bio plastics the future	International Journal of Science & Research	Dr. PreetiSoni	13 Jan 2025	RC19523
11.	Synthesis and Antioxidant study of new thiazolidinone derivatives	International Journal of Science & Research	Dr. PreetiSoni	29 Jan 2025	RC20640
12.	Sequential separation of Uvi and thiv by cyanex based	International Journal of Science & Research	Dr. PreetiSoni	13 Feb 2025	RC21871

	amberlitexad chelating resin				
13.	Review on conformational isomerism in P O & P N bond containing compounds	International Journal of Science & Research	Dr. PreetiSoni	16 March 2025	RC23069
14.	Development of problem based learning E modules on corrosion materials class xi smaina	International Journal of Science & Research	Dr. PreetiSoni	17 March 2025	RC24260
15.	A Review of oil spills on Marine life and associated wild life	International Journal of Science & Research	Dr. PreetiSoni	02 April 2025	RC25380
16.	Ldh based material waste water treatment	International Journal of Science & Research	Dr. PreetiSoni	17 march 26	RC36743
17.	Synthesis of imidazole derivatives using multiple synthetic routes and their catalytic response	International Journal of Science & Research	Dr. PreetiSoni	23 march 20216	RC36841
18.	Case Study on Green Catalyst in General	International Journal of Science & Research	Dr. PreetiSoni	02 April 2026	RC37110
19.	Synthesis and Study the Mesomoprphic properties of Schiff Base Ester Compound	International Journal of Science & Research	Dr. PreetiSoni	06 April 2026	RC37175
20.	Impact of the Purification Process on the Nicolasamide Quality in Commercial Production	International Journal of Science & Research	Dr. PreetiSoni	13 April 2028	RC37329

9. Research projects undertaken/ ongoing research projects

Sl.No	Name of project	Funding agency	Title of the work	Allocated amount	Sanctioned amount	Sanctioned date	Whether completed or not
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

10. Experiences in delivering invited talks/ practical sessions outside the college

S.No.	Topic on which the lecture was delivered	Place or name of institution in which it was delivered	Beneficiaries	Date of lecture	Duration of lecture
1.	Expert talk on Science and Discovery	Saraswathishishumandir school, bhatapara (c.g.)	Students of 12 th class	02/03/2018	1 day
2.	One day workshop on NAAC Accreditation and Educational Quality	Govt. S. V.S College, Bilaiagarh (C.G.)	Students and staff of the college	11/03/2017	1 day
3.	One day interdisciplinary lecture on Solid waste	Govt. G.N.A. P.G. Bhatapara C.G.	Pg students (Economics)	12/04/2018	1 day

	management				
4.	One day expert talk on world water day	Pt. shyamacharanshuklagovt, college dharsiwa	Students and faculty members	22 march 2021	1 day
5.	Carbohydrates	Watgan college	students		1 day
6.	Chemical Bonding And Periodic Properties	Kamlakant college	students		1 day
7.	Atomic Structure & Chemical Bonding	Govt. Polytechnic college,	students		1 day
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11. Orientation & refresher course :

s.no.	course	duration	center	status	remarks
1.	Orientation	11/05/15 – 06/06/15	HRDC GGU, Bilaspur	Completed	
2.	Refresher	11/06/18 – 30/06/18	HRDC GGU	Completed	
3.	Refresher		HRDC GGU	Completed	
4.	Refresher		HRDC GGU	Completed	
5.	Orientation	03 – 12/01/24	MMTTPP PT. RSU.	Completed	

12. Patents-

1. Implementation of artificial intelligence enabled design, synthesis and process optimization of chemical products for industry 4.0 (8th author) Date- 05-05-23
2. A Novel adsorbent material for the removal of heavy metals from industrial waste water using chitosan & activated carbon nanoparticles (2nd author) Date- 18-08-23
3. Method & Composition for Treating Swelling Using Ethanolic Extract of HELIOTROPIUM INDICUM LINN (1st author) Date- 13-10-23
4. System of the Controlled Assembly of Nanomaterial using Directed self assembly Techniques. (International CANADA Copyright) (1st author) Date - 7/01/2025
5. Water Purification Device (Design Patent) (National) Date - 14/10/2025
6. Quad Magnetic Axial Drive System (Design Patent) Date – 16/01/2026

13. Journal Membership-

- 1- Physics of Fluids
- 2- Science Direct
- 3- Physics of Plasma
- 4- Royal Society of Chemistry
- 5- Indian Chemical Society
- 6- ShodhSindhu