



***Dr. Satish Kumar Sen***

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**Assistant Professor of Botany, Government V. Y. T. PG. Autonomous  
College, Durg, Chhattisgarh, india.491001**

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*1. Father's Name - Late Raghunandan Sen*

*2. Mother's Name - Smt. Rambai Sen*

*3. Gender - Male*

*4. Nationality - Indian*

*5. Date Of Birth – 01/01/1975 (First January Nineteen Seventy Five)*

*6. Language – Chhattisgarhi, Hindi & English*

*7. Marital status -*

*Married 8. Mobile No. –*

*9981923039*

*9. Email id - satishsen8550@gmail.com/sat\_bot@yahoo.co.in*

### **Academic Qualifications :**

<b>S. N.</b>	<b>School/College/University</b>	<b>Degree</b>	<b>Subject</b>	<b>Year</b>
<b>01</b>	<b>Pt. Ravishankar Shukla University, Raipur, Chhattisgarh</b>	<b>Ph. D.</b>	<b>Botany (Life Sciences)</b>	<b>17 Feb 2009</b>
<b>02</b>	<b>Government Arts and Science College, Durg (Pt. Ravishankar Shukla University, Raipur, Chhattisgarh)</b>	<b>M. Sc.</b>	<b>Botany (Life Sciences)</b>	<b>1997</b>
<b>03</b>	<b>Government Arts and Science College, Durg (Pt. Ravishankar Shukla University, Raipur, Chhattisgarh)</b>	<b>B. Sc.</b>	<b>Botany Zoology Chemistry</b>	<b>1995</b>
<b>04</b>	<b>Government Multipurpose Higher Secondary School, Durg (C.G.) (M. P. Board, Bhopal)</b>	<b>XII</b>	<b>Biology Physics Chemistry</b>	<b>1992</b>
<b>05</b>	<b>Government Multipurpose Higher Secondary School, Durg (C.G.) (M. P. Board, Bhopal)</b>	<b>X</b>	<b>Science e Maths S. Studies</b>	<b>1990</b>

### **Research Skills :**

- Working on Plant Nanotechnology, Ecology & Environmental Sciences, Plant Physiology, Limnology, Plant taxonomy, Green Technology.
- 13 Research Paper Published in international journals & National journals.
- More than 55 Conferences/Symposium/Seminar/Paper presented in all over india.

- More than 6 year Research Experience in the field of Ecology & Environmental Sciences.
- More than 50 No. Of PG Projects handled in the field of Botany.
- **\*Ph. D. Supervisor** : 03 students working as a research scholar under my guidance in the field of Nanotechnology.
- **01** interdisciplinary work with department of chemistry, Govt.V. Y.T. PG. Auto. College, Durg.
- **\*Editorial Board Members** : International journal of innovative life sciences, Xt. Joseph, University, Nagaland, india

## **Orientations/Refreshers :-**

1. **Orientation Course** : Participated UGC Sponsored 107<sup>th</sup> Orientation Programme by UGC-HRDC Panjab University, Chandigarh (29/07/2015 to 25/8/2015) with “A” grade.
2. **Refresher Course** : “University and PG College M. Sc, Teachers Training Program In Biology” at Talent Development Centre IISC, Bangalore, Kudapura Campus. From 16 June to 6 July 2019 With “A” Grade.
3. **Refresher course** : participated two weeks science academics refresher course in “plant taxonomy-orthodox and modern aspects”. october 18-31, 2016 organized by yogi vemana university, kadapa (a. p.). sponsored by Indian Academy of Sciences, Bangalore, indian national science academy, new delhi & the national academy of sciences, Allahabad.

## **Seminar/Workshop :**

1. Participated in One day work shop on NAAC & CBCB (RUSA) Organized by Dr. J.P. Mishra Govt. Science College, Mungeli (C.G.). On 6<sup>th</sup> November 2015. Participated in Workshop on Women Empowerment Organized by Government Girls College, Bemetara (C.G.) Under the Programme RUSA. on 2<sup>nd</sup> February 2016.
2. Paper Presented in National Seminar on “ Present Scenario in “Phytomicrobial aspects beneficial to mankind” (27<sup>th</sup> & 28<sup>th</sup> January 2017) UGC Sponsored Organized by Govt. Dr. W. W. Patankar Girls PG College, Durg. (C.G.).
3. Paper presented in National Workshop on “Recent Trends in

Scientific Research on Conservation & Diversity of forest (6<sup>th</sup> & 7<sup>th</sup> February 2017) UGC Sponsored Organized by Govt. Dr. W. W. Patankar Girls PG College, Durg. (C.G.).

4. Paper presented in National Seminar on “Advances in Environmental Science & Technology” Sponsored by UGC (23<sup>th</sup> & 24<sup>th</sup> January 2017) organized by Department of Botany Govt. Digvijay Autonomous PG College, Rajnandgaon, (C.G.).
5. Actively Participated in the STEM Teacher Training Workshop on Research Based Pedagogical tools held from 6<sup>th</sup> -9<sup>th</sup> October 2017 at Pt. Ravishankar Shukla University, Raipur (C. G.) Workshop was jointly organized by DBT, New Delhi, British Council, Newton-Bhabha Fund, MHRD & IISER, Pune.
6. Actively Participated in three days workshop on “J& K Facts, Problems & Solution : A Discussion”. On 28, 29 & 30<sup>th</sup> July 2017. Organized by Hemchand Yadav Durg University, Durg (C.G.).
7. National Symposium on Indian Culture “Anadi se Aaj tak” 23 & 24<sup>th</sup> December 2017. Organized by Hemchand Yadav Durg University, Durg (C.G.).
8. Organizing committee members 16<sup>th</sup> Chhattisgarh Young Scientist Congress – 2018 Sponsored by CGCOST, Raipur (C.G.) on 27 & 28<sup>th</sup> February 2018.
9. Participated in International Webinar on “ Concept of gene and gene technology” organized by Uttam Memorial College, Raigarh (C.G.) Dated on 12<sup>th</sup> March 2021.
10. Participated in National Webinar on “ Role of science and technology in Global health and food security” organized by Govt. Girls PG. College, Ujjain (M.P.) Dated on 1,2, and 3<sup>rd</sup> March 2021.

11. Participated in New Year Webinar on “ Science, Technology and innovation Policy of GOI, by Prfo. Ashutosh Sharma, Secretary, DST, Webinar was organized by Department of Botany, Central University of Punjab, Bathinda on 17<sup>th</sup> January 2021
12. Organizing Secretary of Two days NATIONAL WEBINAR ON “Modern aspects in Botanical Scieens” from 19 and 20<sup>th</sup> May 2021. Organized by Department of Botany in association with IQAC, Government V. Y. T. PG. Autonomous College, Durg, Chhattisgarh. India.
13. Participated in the National Webinar on „Techhnological Innovation and Academia Industry Collabrations under self-Reliant India”, Organized by Department of Electrical and Electronics Engineering, MSAJCE, Chennai on 23/07/2020.
14. Participated on Earth Day 22 April 2021 “Lesser-Known Continent of the Earth: Antartica” by Prof. Rajan Kumar Gupta (Centre for Advanced Study in Botany, BHU, Varanasi), Organized by Department of Botany & Ecoclub, Govt. e. v. P. G. College, Korba (C.G.).
15. Participated in “ National Eduation Policy” 2020. Organized by Department of Education, St. Thomas College, Bhilai. Dated on 23<sup>rd</sup> March 2021.





## **Journals Life –Membership**

1. Society for Ecological & Environmental Development (SEED), Bhilai (C.G.) with ISSN No.
2. Society for Advances in Plant Sciences, Muzzafarnagar. (U.P.) with (ISSN No. Impactfactor).
3. Vigyan Bharati, New- Delhi, A Premier Society in the field of Science & technological work. (Patron- Dr. Anil Kakodkar , Dr. G. Madhvan Nair & Dr. Vijay P. Bhatakar.)

## **Research Projects :**

1. Minor research project sanctioned by Govt. V. Y. T. PG. Autonomous College, Durg, (C.G.) “Phytochemical Evaluation of dioecious characters of *Tinospora cardifolia* (Miers) components” @Rs. 50.000/ for two years.
2. Under the research promotion scheme of the college, the research council has been sanctioned short project @10,000/ for one years.

## **Research Publications**

1. Aquatic Macrophytic Diversity in Lentic Bodies of Durg-Bhilai City in Chhattisgarh(India). Ad. Plant Sci. 26 (I) 157-161. 2013.
2. Phytosociological Studies of Urla Pond in Durg City. Life Science Bulletin, Vol. 9 (2)2012 : 2012 : 413-416.
3. Rapid One step DNA Extraction Method from (*Gastrimargus Musicus*) through Formaldehyde, Das S, Tiwari K L, Sen S, \* Singh A. JOURNAL OF PHARMACEUTICAL

AND BIOMEDICAL SCIENCES ISSN NO- 2230 – 7885 CODEN JPBSCT NLM  
itle: J

Pharm Biomed Sci.

4. Effect of Macrophytic Community Organisation in a Fresh Water Lentic Body of Durg City in Chhattishgarh. ABR, 2013, E-ISSN 2277-1573 P ISSN 0976-4585.
5. **Book Chapter** : Indices of Macrophytic diversity in some ponds of Durg-Bhilai City and their relationship with water quality. Book Chapter, Conservation & Management of Aquatic Ecosystem. By K. S. Unni. **Daya Publishing House, New Delhi. 2002. ISBN 81- 7035-290-8. Page No. 84-91.**
6. A Significant Role of Aquatic Macrophytes In Lentic Ecosystem, Satish kumar sen & Deepak Karkun , Indian J. Sci.Res. 13 (2): 161-165, 2017 ISSN: 0976-2876 (Print). ISSN:2250-0138 (Online).
7. Macrophytic Community Organization in A Tropical Fresh Water Lentic Body. Vasundhara, The Earth. Vol. 1& 2, No. 2 & 1, pp 10-12, 30 June 2000. Published by Society for Ecological and Environmental Development (SEED) Bhilai – India.
8. Applying a Gouy–Chapman–Stern Model for Adsorption of Toxic Metals to Soils in Arsenic Affected Areas of Chhattisgarh. World News of Natural Sciences (An international Scientific journal) WNOFNS 30(2) (2020) 189-197 EISSN 2543-5426 . Available online at [www.worldnewsnaturalsciences.com](http://www.worldnewsnaturalsciences.com). *World News of Natural Sciences 30(2) (2020) 189-197.*
9. Phyto-sociological analysis of pond ecosystem in chhattisgarh, india, satish

kumar sen, Ashish kumar bhui, international journal of innovative life sciences ( international peer reviewed referred journal. int. j. of innovative life sciences, 2021; 1 (1): jan 2021.

10. Fibers and polymers Springer Surface modification of Kosa silk fabrics through graft-copolymerization-I: Synthesis and characterization". 2022. (Communicated). Publications : Taylor & Francis
11. Aquatic floristic composition of chhattishgarh, satish kumar sen, international journal of innovative life sciences ( international peer reviewed referred journal. int. j. of innovative life sciences, 2021; 1 (1): jan 2021.
12. Green synthesis of cu (copper) nanoparticles by using uv-visible spectrophotometer, satish kumar sen, swati agrawal, tarinee sahu and uday. international journal of innovative life sciences ( international peer reviewed referred journal. int. j. of innovative life sciences, 2021; 1 (1): jan 2021.
13. **Book Chapter** : Plant Response Unser Streess : Role of Glycine Betaine, Praveen Jain & Satish Kumar Sen. Book Chapter Published in Immortal Publications “ Wisdom of Indian Medicinal Plants” ISBN : 978-93-5419-762-8 : 2021, Editore: Dr. P. Shivakumar Singh, Page No. 193-204.
14. **Book Chapter** :Delineating high arsenic levels in soil and its weird behavior in Ambagarh Chowki, Rajnandgaon, Central india. Ashish Kumar Bhui and Satish Kumar Sen. Book Chapter Published in Immortal Publications “ Wisdom of Indian Medicinal Plants” ISBN : 978-93-5419-762-8 : 2021, Editore: Dr. P. Shivakumar Singh, Page No. 273-300.

15. **Book Chapter** : Soil Algae : Morphology, Ecology and Biotechnological Applications, Title : Role of Soil algae in the maintenance of soil fertility and soil health. Publishers : Springer Nature Singapore pte Ltd.(In Press).
  
  16. **Book Chapter** : Potent Biological Activity of Green-synthesized silver Nanoparticles, 2022 (Communicated) Elsevier Publications.
  
  17. **Book Chapter** : Biological synthesis of nanoparticles : A value of Ethnomedicine, 2022 (Communicated) Elsevier Publications.
  
  18. **Book Chapter** : Role of soil algae in the maintenance of soil fertility and soil health : 2022 (Communicated) Springer Publications.
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## **Guest Lecture/Speaker :**

1. Lecture on “Conservation and Mngement of forest biodiversity in Chhattisgarh : A growing sector for formers Economy”. Organized by Gujrat Vigyan Sammelan ( Swatantrata Ka Amrut Mahotsav, DST, Vibha, Vigyan Gurjari, India). **2022.**
2. Lecture on “Carrer in Botany” organized by Govt. P.G. College,Kawardha, **2022.**
3. St. Joseph university, Nagaland “National Conference on Biodiversity for sustainable agriculture and health. 6 & 7<sup>th</sup> February **2020.**
4. Two days international conference on emerging trends in life sciences" organized by to be held on 18.02.2021to 19.02.**2021.** Sri Vidya mandir arts & science college, katteri Tamil Nadu. INDIA.
5. Lecture on “Soil pollution & its effects on plants” Organized by PG Department of Botanty, St. Thomas College, Ruabandha, Bhilai. On 22<sup>nd</sup> May **2021.**
6. Lecture on “Community characters including analytical characters and IVI preparation of power point presentation”. Organized by PG Department of Botany, Govt. Dr. W.W. Patankar Girls P.G. College, Durg, Date on 12/01/**2019.**
7. Lecture on “ Lower Plants” dated on 12/11/**2016,** Organized by Department of Botany, Kalyan PG. College, Bhilai-Nagar.
8. Lecture on “Diversity in plant Kingdom” and Career guidance for NET Exam, dated on 17/04/**2018,** Organized by Department of Botany, Baba Saheb Bheem Rao Ambedkar College, Dongargaon, Distt. – Rajnandgaon.
9. Lecture on “water conservation” organized by Shail- Devi Mahavidyalya, Anda,Distt- Durg, C.G. **2021**
10. Lecture on “Plant systematic & their significance organized by Govt. Digvijay College,Rajnandgaon, **2020.**

11. Lecture on “Conservation and Mnagement of forest biodiversity in Chhattisgarh : A growing sector for formers Economy”. Organized by Gujrat Vigyan Sammelan ( Swatantrata Ka Amrut Mahotsav, DST, Vibha, Vigyan Gurjari, India). 2022.
12. Lecture on “Carrer in Botany” organized by Govt. P.G. College, Kawardha, 2022.

### **Faculty Development Program :-**

1. Participated in 10 days Faculty Development Program “ Online Education : Boon for upliftment of Higher Education Institutes “ 22 July 2020 to 31<sup>st</sup> July. Organized by HEMCHAND YADAV UNIVERSITY, DURG,C.G.
2. Two week online faculty development programme on managing online classes and co creating moocs 3.0, 25<sup>th</sup> July to 10<sup>th</sup> August 2020. Organized by Teaching Learning Centre & Research Development and Services Cell, Ramanujan College, University of Delhi, (Under the MHRD, PMMMNTT sheme)

### **Workshop :**

1. Participated in 7 days National e-workshop on “mashroom production and its post harvesting technology”. Held from 5<sup>th</sup> may 2021 to 11<sup>th</sup> may 2021, organized by Deaprtment of Botany, Govt. N. P.G. College of science, Raipur (C.G.)
2. Participated on American Society for Microbiology [ ASM ] Webinar on Combating with the millennium pandemic Covid-19. Dated on 2-4<sup>th</sup> July 2020. Jointly Organize by WHO, ASM, CDC, AIIMS, SHAUTS, Prayagraj.
3. Participated in National Workshop on Intellectual Property Rights from 03/05/2021 to 09/05/2021 organized by the department of Biotechnology and internal Quality Assurance cell , Govt. V. Y. T. PG. Autonomous College, Durg, Chhattisgarh.

**Awards :**

1. Recognition award from Vidyarthi Vigyan Manthan, (Chhattisgarh state) Sponsored by VigyanPrasar & Department of Science and Technology, New Delhi. Year 2018 & 2019.

2. Recognition award from Vidyarthi Vigyan Manthan, (Chhattisgarh state) Sponsored by VigyanPrasar & Department of Science and Technology, New Delhi. Year 2019.

**Teaching Skills : ( PG = 7 years UG = 13 years)**

- Working as a Assistant Professor of Botany Govt. V. Y. T. PG. Autonomous College, Durg, Chhattisgarh. From 13 December 2017 to till date.
- Through Chhattisgarh State Pulic Service Commission Selected and first appointment From 18 February 2015 to 12 December 2017 Working as a assistant Professor and Head of Department of Botany in Govt. Pt. J.L. N. Arts & Science PG. College, Bemetara.
- From 12 July 2004 to 20 July 2010 working as a Assistant Professor & Head of Department of of Botany (Under ther section -28 selected from Pandit Ravishankar Shukla University Raipur ) in Bhilai Nair Smajam College, Sector-8 Bhilai, ChhattisgarhGovt. V. Y. T. PG. Autonomous College, Durg, Chhattisgarh. From 13 December 2017 to till date.

**Administrative Skills : (7 years)**

- From 18 August 2007 to 20 July 2010 working as a Principal, Bhilai NairSamajam (Under Section -28) Sector-8, Bhilai.
- From 21 July 2010 to 30 April 2013 working as a Principal G. D. Rungta Collegeof Science & Technology, Kohka-Kurud Road, Bhilai.

From May 2013 to September 2013 Establish IBT Science College,  
Ahiwara as aPrincipal.

□ From October 2013 to Jun 2014 Working as a Principal Chhattisgarh  
Commerce & Science College, Sector-6, Bhilai, C. G.

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□□ ***Dr. Satish Kumar Sen***