**Faculty Achievement (Session 2019-20)**

**Department Name – BOTANY**

**Research Paper**

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| Sl. No. | Name of Faculty | Research Paper | National Seminar (Presentation) | International Seminar (Presentation) | Books | Book Chapter | Patents | Project |
|  |  | Title  Journal Name  Volume  Issue  Year of Publication | Title of paper  Seminar  Theme  Date  Venue  Host institute | Title of paper  Seminar  Theme  Date  Venue  Host institute | Title of book  Year of pub  ISBN  Publisher name | Title of book chapter  Year of pub  ISBN  Publisher name | Application No  Title  Type  Publication/ Issue date | Title  Funding agency  Major/Minor  Sanctioned Fund  Status (Completed/Ongoing) |
| 1. | DR. TRILOK KUMAR | Impact of coal fly ash amelioration on chemical properties of soil. *International Journal of Basic and Applied Research*, 9(7), 484-490, 2019, ISSN 2249- 3352(P), 2278-0505 (E). |  | Monographic study of an important medicinal plant Withania somnifera(Linn.) Dunal  in Internationa Seminar |  |  |  | Project:  Dr. Trilok Kumar Co- Principal Investigator  TITLE: Endline survey of knowledge, attitude and practice of voters in Durg Division,  C.G.  Funding Agency: Election Commission of India and C.G. Govt.  Amount: 640000/- |
|  |  | . Comparison of physical-chemical properties of soil and coal fly ash and utilization of coal fly ash as a soil conditioner. *Universal review*, 8(6), 487- 491, 2019, ISSN: 2277-2723. |  |  |  |  |  |  |
|  |  | Effect of coal fly ash incorporation on physical properties of soil. *International Journal of Basic and Applied Research,* 9(7): 466-472, 2019, ISSN: 2249- 3352(P), 2278-0505 (E). |  |  |  |  |  |  |
| **Sl. No.** | **Name of Faculty** | **Research Paper** | **National Seminar** | **International Seminar** | **Books** | **Book Chapter** | **Patents** | **Other (Prize/ Recognition)** |
| 2. | Dr. Sonal Mishra | Impact of coal fly ash amelioration on chemical properties of soil. *International Journal of Basic and Applied Research*, 9(7), 484-490, 2019, ISSN 2249- 3352(P), 2278-0505 (E). | Title: Impact of coal fly ash on some medicinal constituent of Rauwolfia serpentine Bent.ex. Kurz. in National Conference on Recent advances & Trends in Biotechnology | Title: Effect of coal fly ash on growth and productive behavior of Rauwolfia serpintina Benth.ex. Kurz. with special reference to its chlorophyll content. In International seminar |  |  |  | Project:  TITLE: Endline survey of knowledge, attitude and practice of voters in Durg Division,  C.G.  Funding Agency: Election Commission of India and C.G. Govt.  Amount: 640000/- |
|  |  | . Comparison of physical-chemical properties of soil and coal fly ash and utilization of coal fly ash as a soil conditioner. *Universal review*, 8(6), 487- 491, 2019, ISSN: 2277-2723. |  |  |  |  |  | Deciphering the important bio-chemical properties, antibiotic sensitivity & enzyme production of some bacteria of Hot spring, Tatapani, Surguja,CG  Funding by: Autonomous Cell, Govt. Digvijay PG College, Rajnandgaon, CG  Amount: 50000/- |
|  |  | Effect of coal fly ash incorporation on physical properties of soil. *International Journal of Basic and Applied Research,* 9(7): 466-472, 2019, ISSN: 2249- 3352(P), 2278-0505 (E). |  |  |  |  |  |  |

**Faculty Achievement (Session 2020-21)**

**Department Name – BOTANY**

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| Sl. No. | Name of Faculty | Research Paper | National Seminar | International Seminar | Books | Book Chapter | Patents | Other (Prize/ Recognition) |
| 1. | Dr. Anita Mahiswar | Title- Use of Traditional medicinal plants for bone joining by indigenous people in village Kapsi, Balod, CG, India, International Journal of Creative Research Thoughts Vol. 8 Issue 11 ISSN: 2320-2882 |  |  |  |  |  |  |
|  |  | Biodiversity & Secondary metabolites of few important ethno-botanical plants used in skin diseases by local inhabitants of DUrg, CG  in proceeding of American Institute of Management and Technology Conference Proceeding; ISSN 2769-5093; 134-146 |  |  |  |  |  |  |
|  |  | Antioxidant properties of Bauhinia purpurea L. in proceeding of American Institute of Management and Technology Conference Proceeding; ISSN 2769-5093; 73-79 |  |  |  |  |  |  |
| **Sl. No.** | **Name of Faculty** | **Research Paper** | **National Seminar** | **International Seminar** | **Books** | **Book Chapter** | **Patents** | **Other (Prize/ Recognition)** |
| 2. | DR. TRILOK KUMAR | The climate imperative: Understanding the impact and solutions of climate change, *Journal of Critical Reviews*, 7(19), 13278-13287, 2020, ISSN 2394-5125, DOI: 10.53555/jcr.07.09.1453. |  | Convener: International webinar on “ Emerging challenges and opportunities in higher education due to COVID-19 Pandemic |  |  |  |  |
|  |  |  |  | Organizing Secretory: International webinar on “Impact of Noval Corona Virus around the globe and future of higher education |  |  |  |  |
| **Sl. No.** | **Name of Faculty** | **Research Paper** | **National Seminar** | **International Seminar** | **Books** | **Book Chapter** | **Patents** | **Other (Prize/ Recognition)** |
| 3. | Dr. Sonal Mishra | The climate imperative: Understanding the impact and solutions of climate change, *Journal of Critical Reviews*, 7(19), 13278-13287, 2020, ISSN 2394-5125, DOI: 10.53555/jcr.07.09.1453. |  | Organizing Secretory: International webinar on “ Emerging challenges and opportunities in higher education due to COVID-19 Pandemic |  | Chhattish Raginiya; Sahitya Sahkar Prakashan, Delhi, ISBN: 978-93-81412-45-9 |  |  |
|  |  |  |  | Convener: International webinar on “Impact of Noval Corona Virus around the globe and future of higher education |  |  |  |  |
| 4 | Dr. Kiran Jain | “Physiochemical Analysis of parboiled Rice mill Effluents”  *I J A R E S M* Volume 09, Issue 09 September 2021 |  |  |  |  |  |  |

**Faculty Achievement (Session 2021-22)**

**Department Name – BOTANY**

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| Sl. No. | Name of Faculty | Research Paper | National Seminar | International Seminar | Books | Book Chapter | Patents | Other (Prize/ Recognition) |
| 1. | Dr. Sonal Mishra |  |  | Chairperson in International Conference on Recent advances in biological sciences & Opp. in Entrepership; organized by SOS in Biotechnology;Pt RSU, Raipur, CG |  |  |  | “Nari Gaurav Samman” by Anterrashtriya Amhila Manch. |
| 2. | Dr. Kiran Jain | “Assessment of volatiles organic compound VOC against thermophilic fungi”  *I J E R in science technology & Engineering*  Volume 11  Issue 1  January 2022 | 2 days –sponsored by DMV-Hindi department  12th-13th nov., “Mukti Bodh ka Sahitya Yugbodh and Pravratiya” |  |  |  |  |  |

**Faculty Achievement (Session 2022-23)**

**Department Name – BOTANY**

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| Sl. No. | Name of Faculty | Research Paper | National Seminar | International Seminar | Books | Book Chapter | Patents | Other (Prize/ Recognition) |
| 1. | Dr. Anita Mahiswar | Title- Studies on the biodiversity of weeds & flowering plants from Govt. Digvijay College campus and adjoining areas in Chhattisgarh, India, Vol 9 Issue- 4, International Journal of Research & Analytical Reviews, ISSN: 2348-1269 & 2349-5138 |  |  |  | Classification System, In Book\_ Introduction to Microbiology, Pblised by,Selfypage Developers Pvt. Ltd. Karnataka  ISBN 978-93-5747-933-2 | CANNABINOID- Containing plant extracts forrelief of central neuropathicpain from brachial plexus avulsion  Date13/01/2023 |  |
| 2. | Dr. Sonal Mishra |  | Mahila Uththan me Dr. BR Ambedkar ka yogdan in National seminar on Role of Dr. BR Ambedkar Organized by Govt. PG College, Parasia, MP |  |  | Maa avum veervadhu avam Jindgi; Book- Jeewantika, Published by- Vans Publication Bhopal; 978-93-82224-16-7 |  | Awarded by-Chhattisgarh Mahila Ratna Samman; by Vishwa Hindi Rachnakar Manch |
| 4 | **Dr. Keshaw Ram Aadil** | Raj Kumar, **Keshaw Ram Aadil**, Kunal Mondal , Yogendra Kumar Mishra , David Oupicky, Seeram Ramakrishna , Ajeet Kaushik. (2022). Neurodegenerative disorders management: state-of-art and prospects of nanobiotechnology**.** Critical Reviews in Biotechnology (Taylor & Francis) **(IF: 9.077)** 1-33. <https://doi.org/10.1080/07388551.2021.1993126> |  | Fabrication and characterization of lignin-agar based bioactive porous scaffold for biomedical application, presented in the International Conference IC-RASSI-2023 organized by Govt. Digvijay Autonomous Postgraduate College Rajnandgaon (C.G.) India from 6 to 8th February 2023. **Oral presentation.** |  | 1. Raj Kumar, Naveen Bunekar, Sunil Dutt, Pulikanti G Reddy, Abhishek K Gupta, **Keshaw R Aadil,** Vivek K Mishra, Shivendra Singh, Chandrani Sarkar (2021). [2D Advanced Functional Nanomaterials for Cancer Therapy](https://books.google.com/books?hl=en&lr=&id=NrRFEAAAQBAJ&oi=fnd&pg=PA199&dq=info:8B9SQ4TxY4wJ:scholar.google.com&ots=X_Fc3U3GTU&sig=58kyU7u4SX2lGiOEn_ZP6ItoTMw), Book Name: 2D Advanced Functionalized Inorganic Nanomaterials: Synthesis and Energy Conversion Applications, Publisher: John Wiley & Sons, Publication Date:12 06/2021, Print ISBN: 978-3-527-34677-6; ePDF ISBN: 978-3-527-82395-6. (Book chapter). [**https://doi.org/10.1002/9783527823963.ch11**](https://doi.org/10.1002/9783527823963.ch11) |  |  |
|  |  | R. Kumar, Arun Butreddy, Nagavendra Kommineni, Pulikanti Guruprasad Reddy, Naveen Bunekar, Chandrani Sarkar, Sunil Dutt, Vivek K Mishra, **Keshaw Ram Aadil**, Yogendra Kumar Mishra, David Oupicky and Ajeet Kaushik**.** Lignin: Drug/Gene Delivery and Tissue Engineering Applications. **(2021).** International Journal of Nanomedicine (Dove Press), 16, 2419-2441. **(IF: 7.033)** doi: [10.2147/IJN.S303462](https://dx.doi.org/10.2147%2FIJN.S303462) |  |  |  | 1. Awasthi S, Bhange K, Jha H, **Aadil** KR(2023).Fabrication and characterization of lignin-agar based bioactive porous scaffold for biomedical application. Role of Applied Sciences in Social Implications Volume C: Life Science, Probcell Press. (Corresponding author). Vol. C, 131-146**. (Book Chapter)**   **(Book Chapter),** |  |  |
|  |  | Ankita Chaubey, **Keshaw R. Aadil**, Harit Jha(2021). Synthesis and characterization of lignin-poly lactic acid film as active food packaging material. Material Technology: Advanced Performance Material. 36 (10), 585-593. **[IF=3.846**]. <https://doi.org/10.1080/10667857.2020.1782060>. Citation: 26 |  |  |  | 1. Bhange K, **Aadil KR,** Tyagi DS, Chandrakar T, (2023). Antioxidant property of different solvent extracted products of feather protein hydrolysate obtained from keratinolytic bacteria. (2023). Role of Applied Sciences in Social Implications Volume C: Life Science, Probcell Press. Vol. C, 50-61 |  |  |
| 4 | Dr. Kiran Jain | “Toxigenic fungal contamination of some Indian main spices” Ind. J. Aerobiology volume -36 no (2) page -13-19 [2023] |  |  |  | Introduction to microbiology Book-“History & Development of microbiology” Vol. I 2023 |  |  |
| 5 | Mohit Sahu |  |  | “ROLE OF APPLIED SCIENCE IN SOCIAL IMPLICATIONS (IC-RASSI)” Govt. Digvijay PG College, Rajnandgaon |  |  |  |  |

**Faculty Achievement (Session 2023-24)**

**Department Name - BOTANY**

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| Sl. No. | Name of Faculty | Research Paper | National Seminar | International Seminar | Books | Book Chapter | Patents | Other (Prize/ Recognition) |
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| 1. | Dr. Trilok Kumar | Tribal communities and wildlife conservation: A study sustainable practices in Rajnadgaon-Kabirdham, Chhattisgarh (India), Revista Electronica de Veterinaria, 25(1), 667-672, 2024, ISSN 1695-7504. | Title: Sustainable development goals for better future, In National seminar on Vikshit Bharat@20247: Challenges & Possibilities | Title: Sustainable agriculture practices and management, In International conference on multidisciplinary research in sustainable agriculture development: Opportunities & Challenges; Organized by Govt. Digvijay PG College, Rajnandgaon,C.G. | Geographical Indications in India *Safeguarding Heritage & Fostering Identity* , Published by Iterative International Publishers, Selfypage Developers Pvt. Ltd. Karnataka, 2024, ISBN 978-93-6252-660-1. | "Chapter 3 Culture, tradition, and indigenous practices on medicinal plants". Phytochemicals in Medicinal Plants: Biodiversity, Bioactivity and Drug Discovery, edited by Charu Arora, Dakeshwar Kumar Verma, Jeenat Aslam and Pramod Kumar Mahish, Berlin, Boston: De Gruyter, 2023, pp. 53-86. <https://doi.org/10.1515/9783110791891-003>. |  | Project:  Dr. Trilok Kumar Principal Investigator  TITLE: Baseline survey of knowledge, attitude and practice of voters in Durg Division,  C.G.  Funding Agency: Election Commission of India and C.G. Govt.  Amount: 680000/- |
|  |  | Title: Natural tourist places of Chhattisgarh State and Conservation strategies , In International conference on multidisciplinary research in Tourism Industries; Organized by Govt. Digvijay PG College, Rajnandgaon, C.G |  | “Chapter1 Microbial Examination of Some Spoiled Fruits for the Post Harvest Diseases from Local Fruit Market of Rajnandgaon District of Chhattisgarh, India” Role of Applied Sciences in Social Implications Volume B: Earth, Environment & Energy,, Edited by Gokul Ram Nishad et al., Probecell Press, Chhattisgarh, India, 2023, pp 1-14. ISBN: 978- 81-956770-9-2. |  |  |
|  |  |  |  | Title: Feasibility of coal fly ash in soil amelioration for sustainable development; in International conference on multidisciplinary pathway to literacy; organized by SSPPD PG College Tisuhi, Mirzapur UP & Shodh Niranjana, Nagpur, MH |  | Genetically modified plants: Need of the day in Book Title: Molecular biology: It’s approaches and developments in the recent era; Himalaya Publishing house; 978-93-5840-459-3 |  |  |
| **Sl. No.** | **Name of Faculty** | **Research Paper** | **National Seminar** | **International Seminar** | **Books** | **Book Chapter** | **Patents** | **Other (Prize/ Recognition)** |
| 2 | **Dr. Sonal Mishra** | Tribal communities and wildlife conservation: A study sustainable practices in Rajnadgaon-Kabirdham, Chhattisgarh (India), Revista Electronica de Veterinaria, 25(1), 667-672, 2024, ISSN 1695-7504. | Title: Biofuel, National conference on Microbial bioprospecting: Exploration & conservation organized by Govt. VYT PG College, DUrg,CG | Title: Genetically modified plats: Need of the day in International conference on molecular biology: Its approaches and development in the recent era, organized by Shri Shankaracharya College, Bhilai | Geographical Indications in India *Safeguarding Heritage & Fostering Identity* , Published by Iterative International Publishers, Selfypage Developers Pvt. Ltd. Karnataka, 2024, ISBN 978-93-6252-660-1. | "Chapter 3 Culture, tradition, and indigenous practices on medicinal plants". Phytochemicals in Medicinal Plants: Biodiversity, Bioactivity and Drug Discovery, edited by Charu Arora, Dakeshwar Kumar Verma, Jeenat Aslam and Pramod Kumar Mahish, Berlin, Boston: De Gruyter, 2023, pp. 53-86. <https://doi.org/10.1515/9783110791891-003>. |  | Project:  Co-Principal Investigator  TITLE: Baseline survey of knowledge, attitude and practice of voters in Durg Division,  C.G.  Funding Agency: Election Commission of India and C.G. Govt.  Amount: 680000/- |
|  |  |  |  | Title- Vaishavik paridrisya me vigyan ke kshetra me mahilawon ki bhumika in International conference on Vaishavik Paripekshya me Maari Vimarsh, organized by Govt. Digvijay PG College, Rajnandgaon, CG |  | “Chapter1 Microbial Examination of Some Spoiled Fruits for the Post Harvest Diseases from Local Fruit Market of Rajnandgaon District of Chhattisgarh, India” Role of Applied Sciences in Social Implications Volume B: Earth, Environment & Energy,, Edited by Gokul Ram Nishad et al., Probecell Press, Chhattisgarh, India, 2023, pp 1-14. ISBN: 978- 81-956770-9-2. |  | Awarded by: Dr. APJ Abdul Kalam Samata National Award |
|  |  |  |  |  |  | Genetically modified plants: Need of the day in Book Title: Molecular biology: It’s approaches and developments in the recent era; Himalaya Publishing house; 978-93-5840-459-3 |  | Awarded by- Environmental Science Innovation Award |
| 3 | **Dr. Keshaw Ram Aadil** | **Keshaw R. Aadil**, Akash Nathani, Archana Rajendran, Chandra S. Sharma, Nibedita Lenka, Pratima Gupta (2024). Investigation of human hair keratin based nanofiberous scaffold for skin tissue engineering application. Drug Delivery and Translational Research. Published Online (Aug, 2023). **IF: 5.671.** (Springer Nature) <https://doi.org/10.1007/s13346-023-01396-7>. | Lignin based material for biomedical application, presented in two days national seminar on Innovation and entrepreneurship in Biotechnology (NEIEB 2023), Organized by Department of Biotechnology,Guru Ghasidas Vishwavidyalaya, Bilaspur held from 8-9th December 2023. **Oral presentation.** | 1. Development of lignin based antimicrobial nanofiber mat for biomedical application, presented at 3rd International conference on Role of Science, Technology, Management & Social Science in Viksit Bharat 2047, held from 9-10th January, 2025. **Oral presentation.** |  | **Keshaw Ram Aadil,** Sanu Awasthi, Raj Kumar, Sunil Dutt, Harit Jha (2023). Advanced Functional Nanomaterials of Biopolymers: Structure, Properties and Applications (Book chapter). **Book name**: Functional Materials from Carbon, Inorganic and Organic Sources: Methods and Advances (Elsevier). ISBN. 978-0-323-85788-8. (Corresponding author). |  | 1. **Project sanctioned: 28,93,900/-**   **By ANRF (SERB), New Delhi** |
|  |  | **Keshaw R. Aadil,** K. Bhange, Gita Mishra, Aresh Sahu, Samiksha Sharma, Neha Pandey, Yogendra Kumar Mishra, Ajeet Kaushik & Raj Kumar. (2025). Nanotechnology Assisted Strategies to Tackle COVID and Long-COVID. *BioNanoScience,* 15, 217, 1-33. **(IF: 3).** <https://doi.org/10.1007/s12668-025-01812-x>. Springer Nature | 1. Present a startup idea/ Pitch deck on **Startup Sangam Conclave 2024,** organized by GGV Startup Foundation-DST ITBi at Guru Ghasidas Vishwavidyalaya, Bilaspur held from 28-29 Nov. 2024. **Oral presentation.** |  |  |  |  | 1. **Best Oral Presentation Award:** Keratin nanofiber in tissue engineering: Fabrication, Characterization and in-vitro cell culture study, Second National Conference on Nanotechnology & Environment (NCNE 2024) held at NIT Raipur during 13-14th December 2024. **Oral presentation.** |
|  |  | **Keshaw Ram Aadil**, K. Bhange, Gita Mishra, N. Kumar (2024). Keratin nanofiber in tissue engineering: Bridging Nature and Innovation. Biotechnology for Sustainable Materials (Springer Nature). 1, 1-21. | 1. **Best Oral Presentation Award:** Keratin nanofiber in tissue engineering: Fabrication, Characterization and in-vitro cell culture study, Second National Conference on Nanotechnology & Environment (NCNE 2024) held at NIT Raipur during 13-14th December 2024. **Oral presentation.** |  |  |  |  |  |
| 4 | **Dr. Kiran Jain** |  | “Best practices :Quality enhancement in National higher education institution” Organized by IQAC SGS Govt. Arts and Commerce, Girls CollegeDevendra Nagar Raipur 2.8.2023 |  |  |  |  | Best women faculty Award-by Govt. PG Autonomous DMV-RJG |
|  |  |  | “Viksit Bharat and 2047- Challenges and Possibilities” Organized by dept. of commerce, DMV-RJG ,  Research paper Viksit Bharat. 28th-29th feb. 2024 |  |  |  |  |  |
| 5 | **Mohit Sahu** | DIVERSITY OF GREEN LEAFY VEGETABLES FOUND IN RAJNANDGAON DISTRICT CHHATTISGARH, INDIA , Education and society, ISSN:2278-6864  Vol-46, no.08,july –september;2023 |  | DBT SPONSORED POPULAR LECTURE SERIES  NIPER –AHMEDABAD |  |  |  |  |