



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA
Rourkela –769008, Odisha



APPLICATION FOR FACULTY RECRUITMENT AGAINST ADVT. NO. NITR/ES/06/2023, DATED : 18 Dec 2023

1. Personal Details :

Application Number : 23DCH6752415
Post Applied : Associate Professor with Pay Level 13A2
Department : Chemical Engineering
Specialisation : Not Applicable
Full Name : Arvind Kumar
Email Id : arvindkumar@nitrkl.ac.in
Mobile Number : 9438348807
Date of Birth : 15 Jul 1974



Arvind Kumar

Father's/Husband's Name : Ram Lal Singh Mother's Name : Sumitra Devi
Marital Status : Married Gender : Male
Reservation Category : SC Nationality : Indian
PWD : VH : 0, HH : 0, OH : 0, ID&E : 0
Correspondence Address : FR-36, NIT Rourkela, India, 769008
Permanent Address : Shanti Nagar, Behind polytechnic Bijnor, U.P, India, 246701
Indian National applying from Abroad : No

2. Educational Qualification Details :

#	Examination	Specialization	College/Institute	Board/University	Year of Passing	Marking Mode	% of Marks/ CGPA	Class/ Grade/ Division	Document ?
1	10th	science	R J P Inter Colege Bijnor	UP Board	1991	Percentage	61.5 out of 100	1st	Yes
2	+2	Science	R J P Inter Colege Bijnor	UP Board	1993	Percentage	58.4 out of 100	2nd	Yes
3	B.Tech	Chemical Engg	HBTI Kanpur	CSJM University Kanpur	1999	Percentage	63.93 out of 100	2nd	Yes
4	M.Tech	Chemical Engg	IIT Roorkee	IIT Roorkee	2003	CGPA	6.85 out of 10	1st	Yes

3. Details of Doctoral Degree :

#	Thesis Title	College/Institute	Board/University	Name of Supervisor(s)	Degree Awarded Date
1	REMOVAL OF ACRYLONITRILE AND ACRYLIC ACID FROM AQUEOUS SOLUTION USING ADSORPTION	IIT Roorkee	IIT Roorkee	Prof. B. Prasad	11 Feb 2008

Document uploaded ? : Yes

4. Details of Teaching Experience :

#	Name of Organization	Address of Organization	Designation	Pay Scale	AGP/GP	From	To	Organization Type
1	NIT Rourkela	Rourkela, Odisha	Assistant Professor	128300	8000	30 Jan 2014	22 Nov 2022	MHRD FUNDED, GOVT. OF INDIA
						18 Sep		MHRD FUNDED, GOVT.

2	NIT Rourkela	Rourkela, Odisha	Lecturer	8000-13500	7000	2007	01 Jul 2013	OF INDIA
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5. Details of Industry Experience :

#	Name of Organization	Address of Organization	Designation	Pay Scale	AGP/GP	From	To	Organization Type
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6. Details of Research Experience in R & D :

#	Name of Organization	Address of Organization	Designation	Pay Scale	AGP/GP	From	To	Organization Type
1	National Physical Laboratory	Newdelhi	Project Assistant	5000	Not Applicable	01 Apr 2000	31 Mar 2001	CSIR

7. Details of Post-Doctoral Work :

#	Nature of Work	Name of Institution/Organization	Name of Mentor(s)/Supervisor(s)	From	To
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Summary of Experience as filled in by the applicant : :

#	Experience Details	Year
1	Total Teaching and Research Experience in reputed academic Institute / R&D Labs / relevant industry	16 Year(s) 6 Month(s)
2	Total Experience after Ph.D.	15 Year(s) 11 Month(s)
3	Total Experience since last Appointment	10 Year(s) 9 Month(s)
4	Total Experience after Ph.D at the level of Assistant Professor with AGP 8000/- or Pay Level 12	9 Year(s) 0 Month(s)
5	Total Experience after Ph.D at the level of Associate Professor with AGP 9000/- or Pay Level 13A1	0 Year(s) 0 Month(s)
6	Total Experience after Ph.D at the level of Associate Professor with AGP 9500/- or Pay Level 13A2	0 Year(s) 0 Month(s)
7	Total Experience after Ph.D at the level of Professor with AGP 10000/- or Pay Level 14	0 Year(s) 0 Month(s)
8	Total Experience after Ph.D at the level of Professor with AGP 10500/- or Pay Level 14A	0 Year(s) 0 Month(s)

8. Details of establishment of new lab(s) :

#	Name of Lab established	List of Equipment/Software	Sponsoring Agency	Co-Ordinator(s)
1	ENVIRONMENTAL POLLUTION ABATEMENT LAB	UV-SPECTROPHOTOMETER, AIR UP LIFT REACTOR, HPLC, AUTOCLAVE, CENTROIFUGE, ISOTHERMAL CHAMBER	NIT ROURKELA	PROF. S MISHRA
2	Air Dispersion Modeling Laboratory	AIRMOD	NIT ROURKELA	PROF. B. MUNSHI

9. Details of theory courses taught in semesters where total credit (or credit hours) exceeds six (Since the last Appointment) :

#	Academic Year	Semester	Details of Theory Courses Separated by Semicolon (CourseTitle-L-T-P-C;)	Total Credit (or Credit Hours)
1	2015-16	Spring/Even	CH-226, Treatment of Industrial Effluent; CH-640, Safety in Chemical Industry; CH-646, Hazards and Risk Analysis	9
2	2014-15	Autumn/Odd	CH-313, Process plant safety; CH-6433, Environmental Management System; CH-617, CH-617, Fire Engineering and Explosion Control	9

10. Last Appointment/Joining Date (if any) : 30 Jan 2014
10. Application Date of last Appointment/Joining : 30 Jan 2014
11. Year of service over and above the relevant minimum teaching experience required for the given cadre : 12 Year and 9 month
12. Forward of application through proper channel OR Submission of No Objection Certificate (NOC) : Current Employer Type (NIT Rourkela) and Not Applicable

13. Details of Experiments/Computational projects added to teaching laboratories/Courses offered through application of ICT/E-learning packages prepared :

Disaster Management in Chemical Industries

14. Publication Details :

ResearcherID : _____ Scopus ID : 56982061300

Google Scholar ID : hZCzWj0AAAAJ ORCID ID : 0000-0003-4025-2002

15. Papers Published in National/International Journals :

#	Authors.Title.Journal.Vol,Issue,Pages,Month Year.DOI	Role	Publication Year	Paper Type	Indexed by
1	Kumar, A. and Prasad, B. and Mishra, I.M.. "Process parametric study for ethene carboxylic acid removal onto powder activated carbon using Box-Behnken design". Chemical Engineering and Technology. vol.30, no.7, pp.932-937,2007. 10.1002/ceat.200700084	First Author	2007	International	Scopus
2	Kumar, A. and Prasad, B. and Mishra, I.M.. "Adsorptive removal of acrylonitrile by commercial grade activated carbon: Kinetics, equilibrium and thermodynamics". Journal of Hazardous Materials. vol.152, no.2, pp.589-600,2008. 10.1016/j.jhazmat.2007.07.048	First Author	2008	International	Scopus
3	Kumar, A. and Prasad, B. and Mishra, I.M.. "Optimization of process parameters for acrylonitrile removal by a low-cost adsorbent using Box-Behnken design". Journal of Hazardous Materials. vol.150, no.1, pp.174-182,2008. 10.1016/j.jhazmat.2007.09.043	First Author	2008	International	Scopus
4	Tripathi, P. and Srivastava, V.C. and Kumar, A.. "Optimization of an azo dye batch adsorption parameters using Box-Behnken design". Desalination. vol.249, no.3, pp.1273-1279,2009. 10.1016/j.desal.2009.03.010	Other	2009	International	Scopus
5	Kumar, A. and Prasad, B. and Mishra, I.M.. "Optimization of acrylonitrile removal by activated carbon-granular using response surface methodology". Canadian Journal of Chemical Engineering. vol.87, no.4, pp.637-643,2009. 10.1002/cjce.20189	First Author	2009	International	Scopus
6	Tarangini, K. and Kumar, A. and Satpathy, G.R. and Sangal, V.K.. "Statistical optimization of process parameters for Cr (VI) biosorption onto mixed cultures of Pseudomonas aeruginosa and Bacillus subtilis". Clean - Soil, Air, Water. vol.37, no.4-5, pp.319-327,2009. 10.1002/clen.200900033	Other	2009	International	Scopus
7	Kumar, A. and Prasad, B. and Mishra, I.M.. "Isotherm and kinetics study for acrylic acid removal using powdered activated carbon". Journal of Hazardous Materials. vol.176, no.1-3, pp.774-783,2010. 10.1016/j.jhazmat.2009.11.102	First Author	2010	International	Scopus
8	Barman, G. and Kumar, A. and Khare, P.. "Removal of congo red by carbonized low-cost adsorbents: Process parameter optimization using a Taguchi experimental design". Journal of Chemical and Engineering Data. vol.56, no.11, pp.4102-4108,2011. 10.1021/je200554z	Principal Supervisor	2011	International	Scopus
9	Lallan Singh Yadav, Bijay Kumar Mishra, Arvind Kumar, Kakoli Karar Paul.. "Arsenic removal using bagasse fly ash-iron coated and sponge iron char.". Journal of Environmental Chemical Engineering. vol.2, no.3, pp.1467-1473, Sep 2014. 10.1016/j.jece.2014.06.019	Principal Supervisor	2014	International	Scopus
10	Arvind Kumar, B. Prasad, I. M. Mishra.. "Adsorption of acrylonitrile from aqueous solution using bagasse fly ash.". Journal of Water Process Engineering. vol.2, pp.129-133, Jun 2014. 10.1016/j.jwpe.2014.05.003	Principal Supervisor	2014	International	Scopus
11	Bhishma P. Patel, Arvind Kumar.. "Biodegradation of 2,4-dichlorophenol by Bacillus endophyticus strain: optimization of experimental parameters using response surface methodology and kinetic study.". Desalination and Water Treatment. vol.57, no.34, pp.15932-15940, Aug 2015. 10.1080/19443994.2015.1076351	Principal Supervisor	2015	International	Scopus
12	Singh Yadav Lallan, Kumar Mishra Bijay, Kumar Arvind.. "Removal of phenol from aqueous solution by Mahua seed activated carbon: Kinetic, isotherm, mass transfer and isosteric heat of adsorption studies.". Chem. Ind. Chem. Eng. Q.. vol.22, no.3, pp.263-273, Sep 2015. 10.2298/CICEQ150327040S	Principal Supervisor	2015	International	Scopus
13	Bhishma P. Patel, Arvind Kumar.. "Optimization study for maximizing 2, 4-dichlorophenol degradation by Kocuria rhizophila strain using response surface methodology and kinetic study.". Desalination and Water Treatment. vol.57, no.39, pp.18314-18325, Aug 2015. 10.1080/19443994.2015.1091988	Principal Supervisor	2015	International	Scopus
14	Lallan Singh Yadav, Bijay Kumar Mishra, Arvind Kumar,. "Adsorption of Phenol from Aqueous Solutions by Bael Furit Shell Activated Carbon: Kinetic, Equilibrium, and Mass Transfer Studies". Theoretical	Principal Supervisor	2015	International	Scopus

	Foundations of Chemical Engineering. vol.55, no.1, pp.122-131,Aug 2015. DOI: 10.1134/S0040579519010184				
15	Bhishma P. Patel, Arvind Kumar.. "Multi-substrate biodegradation of chlorophenols by defined microbial consortium.". 3 Biotech. no.6, pp.191,Sep 2016. 10.1007/s13205-016-0511-x	Principal Supervisor	2016	International	Scopus
16	Bhishma P. Patel, Arvind Kumar.. "Biodegradation of 4-chlorophenol in an airlift inner loop bioreactor with mixed consortium: effect of HRT, loading rate and biogenic substrate.". 3 Biotech. no.6, pp.117,Jun 2016. 10.1007/s13205-016-0435-5	Principal Supervisor	2016	International	Scopus
17	Bhishma P. Patel, Arvind Kumar.. "Biodegradation of 2,4-dichlorophenol in Packed- Bed Biofilm Reactor: Effect of Hydraulic Retention Time, Biogenic Substrate, and Loading Rate". Water Environment Research. vol.88, no.12, pp.2191-2197,Dec 2016. 10.2175/106143016X14733681695726	Principal Supervisor	2016	International	SCI
18	Bhishma P. Patel, Arvind Kumar.. "Biodegradation and co-metabolism of monochlorophenols and 2,4-dichlorophenol by microbial consortium.". Clean: soil, air, water. vol.45, no.9, pp.1-7,Sep 2017. 10.1002/CLEN.201700329	Principal Supervisor	2017	International	Scopus
19	Lallan Singh Yadav, Bijay Kumar Mishra, Kumar, A.. "Adsorption of Phenol from Aqueous Solutions by Bael Furit Shell Activated Carbon: Kinetic, Equilibrium, and Mass Transfer Studies". Theoretical Foundations of Chemical Engineering. vol.53, no.1, pp.122-131,May 2019. 10.1134/S0040579519010184	Principal Supervisor	2019	International	Scopus
20	Swati Sambita Mohanty, Arvind Kumar. "Response surface methodology mediated optimization of Indanthrene Blue RS by a novel isolated bacterial strain Bacillus flexus TS8". Water Environment Federation. Sep 2019. 10.1002/wer.1246	Principal Supervisor	2019	International	SCI
21	Swati Sambita Mohanty, Arvind Kumar. "Response surface methodology mediated optimization of Indanthrene Blue RS by a novel isolated bacterial strain Bacillus flexus TS8". Water Environment Federation. vol.92, pp.569-578, Sep 2019. 10.1002/wer.1246	Principal Supervisor	2019	International	SCI
22	Swati Sambita Mohanty, Arvind Kumar. "Optimization and kinetic studies on decolorization of Vat Green XBN by a newly isolated bacterial strain Proteus mirabilis PMS". Journal of Water Process Engineering. vol.37, pp.101529,Oct 2020. 10.1016/j.jwpe.2020.101529	Principal Supervisor	2020	International	Scopus
23	Swati Sambita Mohanty, Arvind Kumar.. "Biodegradation of Indanthrene Blue RS dye in immobilized continuous upflow packed bed bioreactor using comcob biochar.". Scientific reports. no.11, pp.13390,2021. 10.1038/s41598-021-92889-3	Principal Supervisor	2021	International	SCI
24	Swati Sambita Mohanty, Arvind Kumar.. "Enhanced degradation of anthraquinone dyes by microbial monoculture and developed consortium through the production of specific enzymes". Scientific reports. vol.11, no.1, pp.1-15,Apr 2021.	Principal Supervisor	2021	International	SCI
25	StanzinTundupa, MariSelvam Sa, RoshiniP.S., ArvindKumar, AbantiSahoo,BalasubramanianParamasivana. "Evaluating the scientific contributions of biogas technology on rural development through scientometric analysis". Environmental Technology & Innovation. vol.24, pp.101879,Nov 2021. 10.1016/j.eti.2021.101879	Other	2021	International	SCI
26	Manoj Kumar Mahapatra, Arvind Kumar. "Taguchi optimization studies for abatement of 2-chlorophenol using neem seed activated carbon.". Chemical Engineering and Technology. vol.45, no.4, pp.641-648,Jan 2022. 10.1002/ceat.202100427	Principal Supervisor	2022	International	SCI
27	Manoj Kumar Mahapatra, Arvind Kumar. "Studies on the Adsorption of 2-Chlorophenol onto Rice Straw Activated Carbon from Aqueous Solution and its Regeneration". Chemical and Biochemical Engineering Quarterly. vol.36, no.1, pp.51-65,Mar 2022. 10.15255/CABEQ.2021.2004	Principal Supervisor	2022	International	SCI
28	Roshini Sasidharan, Arvind Kumar. "Magnetic adsorbent developed with alkali-thermal pretreated biogas slurry solids for the removal of heavy metals: optimization, kinetic, and equilibrium study". Environmental Science and Pollution Research. vol.29, no.20, pp.30217-30232,Apr 2022. 10.1007/s11356-021-18485-0	Principal Supervisor	2022	International	SCI
29	Swati Sambita Mohanty, Arvind Kumar. "Decolorization of anthraquinone-based dye (Vat Brown R) by Pseudomonas aeruginosa NCH - Optimization and kinetic study.". Indian Journal of Biochemistry and Biophysics. vol.59, no.7, pp.709-717,Jul 2022. 10.56042/ijbb.v59i7.37371	Principal Supervisor	2022	International	SCI
	Roshini Sasidharan, Arvind Kumar. "Response surface methodology for				

30	optimization of heavy metal removal by magnetic biosorbent made from anaerobic sludge.". Journal of the Indian Chemical Society. vol.99, no.9, pp.100638, Sep 2022. 10.1016/j.jics.2022.100638	Principal Supervisor	2022	National	SCI
31	Akash Balakrishnan, Emmanuel Sebastian Kunnel, Roshini Sasidharan, Mahendra Chinthala, Arvind Kumar. "3D black g-C ₃ N ₄ isotype heterojunction hydrogels as a sustainable photocatalyst for tetracycline degradation and H ₂ O ₂ production.". Chemical Engineering Journal. vol.475, no.146163, 2023. 10.1016/j.cej.2023.146163	Principal Supervisor	2023	International	SCI

16. Papers Presented in National/International Conferences :

#	Authors.Title.Conference.Vol,Issue,Pages, Month Year,DOI	Role	Conference Year	Conference Type	Indexed by
1	Manoj Kumar Mahapatra and Arvind Kumar. "Optimization Studies for 2-chlorophenol Removal by Walnut Shell Activated Carbon (WAC) using Taguchi's Experimental Design". 32nd BANGKOK International Conference on "Nanotechnology, Materials, Biotechnology & Environmental Sciences. Dec 2022, NOT APPLICABLE	First Author	2022	International	Other
2	Munshi, Basudeb; Panda, Swaraj; Kumar, Arvind. "Modelling and Simulation Study of CO ₂ Capturing Process in Coal Fired Power Plant using Various Amine Solvents". 4th International Conference on Energy, Environment and Economics(ICEEE2019) Edinburgh, UK, 20-22 August 2019.. Aug 2019, NOT APPLICABLE	First Author	2019	International	Other
3	Arvind Kumar. "A review of various technologies for the treatment of Cyanides bearing wastewaters.". International Conference on Environmental Science and Technology. Apr 2010, Not Applicable	Principal Supervisor	2010	International	Other
4	Arvind Kumar. "Adsorptive removal of acrylonitrile onto low cost adsorbent.". 3rd International conference on chemical and bioprocess engineering. Aug 2009, Not Applicable	Principal Supervisor	2009	International	Other
5	Arvind Kumar. "Design optimization using signal to noise ratio for Congo red removal onto granular activated carbon.". 3rd International Congress of Environmental Research. Sep 2010, Not Applicable	Principal Supervisor	2010	International	Other
6	Arvind Kumar. "Probit analysis of explosion". International Conference on Safety. Dec 2014, Not Applicable	Principal Supervisor	2014	International	Other
7	Arvind Kumar. "Upcycling of plastic wastes to Cu-MOF/Bi ₂ S ₃ for the photocatalytic reclamation of antibiotics from wastewater". Iwa Sustainable Natural and Engineered Water Systems Management 2023. 13-16 Dec. Bangkok Thailand.. Dec 2023,	Principal Supervisor	2023	International	Other
8	Ghanshyam barman and Arvind kumar.. "Optimization of process parameters for brilliant green removal.". International Conference on recent advances in chemical engineering and technology. Mar 2011, Not Applicable	Principal Supervisor	2011	International	Other
9	Kakoli Karar Paul, Arvind Kumar,. "Enrichment analysis of aerosol in urban region of indian steel city, Rourkela.". International Conference on Aerosol Climate Change Connection. Apr 2017,	Principal Supervisor	2017	International	Other
10	Lallan Singh Yadav, Arvind Kumar. "Adsorptive removal brilliant green onto carbonized aegle marmelos.". International Conference on Chemical and Molecular Engineering. Jul 2012, Not Applicable	Principal Supervisor	2012	International	Other
11	M K Mahapatra, Arvind Kumar,. "A short review on bio-butanol, a second generation bio-fuel production from Lignocellulosic biomass.". International Conference on Renewable Energy and Conversation. Oct 2015, Not Applicable	Principal Supervisor	2015	International	Other
12	M. K. Mahapatra, A. Kumar.. "Water Hyacinth (Eichomia Crassipes) as an Effective Biosorbent for sorption of Phenol.". International Conference on Innovative Approaches in Applied Sciences and Technologies (IASt-2018). vol.1, PP.20-28,Jun 2018,	Principal Supervisor	2018	International	Other
13	Prateek Khare, Arvind Kumar.. "Arsenic removal from water using iron impregnated activated carbon.". International Conference on recent advances in chemical engineering and technology. Mar 2011, Not Applicable	Principal Supervisor	2011	International	Other

17. Patents and Copyrights :

#	Category	Title of Patent/Copyright	Identification Number	Owner(s)/Inventor(s)	Applicant	Status	Date
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18. Books/Monographs/Book Chapters :

						Year of	
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#	Type	Title	Authors	ISBN	DOI	Publication	Publisher	Publication Type
1	Book Chapter	Fermentation of Oil Extraction: Bioethanol, Acetone and Butanol Production	Manoj Kumar Mahapatra, Arvind Kumar	94462-378-3-030-1	10.1007/978-3-030-14463-0_8	2019	Springer Nature	International
2	Book Chapter	Biofuel Production: Global Scenario and Future Challenges.	Manoj Kumar Mahapatra, Arvind Kumar	94462-378-3-030-3	10.1007/978-3-030-53933-7_16	2020	Springer	International

19. Any Other publication except Journals, Conferences, Book, Book Chapter, Patent and copyright) :

#	Other Details	DOI
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20. Details of Ph.D. Students (Submitted, Awarded and Ongoing) :

#	Name of the Student	Thesis Title	University/Institute	Status	Degree Awarded/Thesis Submission/Enrolment Date	Role	Total No. of Supervisor(s)
1	Lallan Singh Yadav	Development of low cost adsorbent of phenol removal from aqueous solution	Sambalpur University	Awarded	30 Dec 2015	Co-supervisor	2
2	PATEL BHISHMA PRAVINCHANDRA	Microbial Degradation of Chlorophenol in Batch and Continuous Bioreactors: Kinetic Study and Optimization of Process Parameters	NIT Rourkela	Awarded	09 Jan 2016	Supervisor	1
3	Swati Sambita Mohanty	MICROBIAL STRATEGIES FOR DECOLORIZATION OF ANTHRAQUINONE BASED DYES IN BATCH AND CONTINUOUS SYSTEMS	NIT Rourkela	Awarded	23 Oct 2020	Supervisor	1
4	Manoj Kumar Mahapatra	Abatement of 2-chlorophenol from the aqueous environment by implementing the adsorbents prepared from lignocellulosic biomasses	NIT Rourkela	Awarded	11 Aug 2023	Supervisor	1
5	Roshni P S	Nzvi And Fe ₃ O ₄ Based Composites For The Treatment Of Dairy Wastewater And Heavy Metal Removal By Adsorption Using Digested Sludge	NIT Rourkela	Awarded	05 Jan 2024	Supervisor	1

21. Details of M.Tech.(Research)/M.Phil./MS/Equivalent Research based Master Program (Submitted and/or Awarded) :

#	Name of the Student	Thesis Title	University/Institute	Status	Degree Awarded/Thesis Submission Date	Role	Total No. of Supervisor(s)
1	G. Berman	Congo red removal from aqueous solution by commercial and laboratory prepared low cost adsorbents using adsorption	NIT Rourkela	Awarded	04 May 2012	Supervisor	1
2	Manoj Kr. Mahapatra	Phenol removal using water hyacinth	NIT Rourkela	Awarded	14 Jul 2012	Supervisor	1
	Akash	Adsorptive Removal of Rhodamine					

3	kumar	B (Dye) Using Low Cost Adsorbents	NIT Rourkela	Awarded	20 Dec 2013	Supervisor	1
4	Vishal Kr.Verma	Microbial degradation of acetylsalicylic acid and ibuprofen	NIT Rourkela	Awarded	25 Nov 2014	Supervisor	1
5	SOYAB SALIM BAGWAN	Photocatalytic degradation of hazardous saranin (o) dye by using self synthesized TiO2 nanoparticles	NIT Rourkela	Awarded	09 Mar 2016	Supervisor	1

22. PG Thesis Guided :

#	Title of the Project	Name of Supervisor(s)	University/Institute	Date of Award/Submission	Status
1	TREATMENT OF PHENOLIC WATER USING ADSORPTION	ARVIND KUMAR	NIT ROURKELA	11 Jul 2011	Completed
2	Adsorptive removal of Safranin (dye) using Low Cost Adsorbent	ARVIND KUMAR	NIT ROURKELA	18 Jul 2014	Completed
3	Microbial degradation of acetylsalicylic acid and ibuprofen	ARVIND KUMAR	NIT ROURKELA	25 Nov 2014	Completed
4	Photocatalytic degradation of hazardous saranin (o) dye by using self synthesized TiO2 nanoparticles	ARVIND KUMAR	NIT ROURKELA	15 May 2015	Completed
5	Adsorptive removal of Safranin (dye) using Low Cost Adsorbent	ARVIND KUMAR	NIT ROURKELA	18 Jul 2015	Completed
6	Photocatalytic degradation of hazardous saranin (o) dye by using self synthesized TiO2 nanoparticles	ARVIND KUMAR	NIT ROURKELA	09 Mar 2016	Completed
7	DEVELOPING A SAFETY MANAGEMENT PLAN AND ITS IMPLEMENTATION AT DESPL	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
8	EHS RISK ASSESSMENT OF M.R.C.S.B PROJECT, L&T, GOA (UNDER CONSTRUCTION) AND DESIGN OF CITY GAS DISTRIBUTION NETWORK BY USING TECHNICAL STANDARDS AND SPECIFICATION INCLUDING SAFETY STANDARDS	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
9	Hazard Identification and Risk Assessment (HIRA) of New Plate Mill, Rourkela Steel Plant & Standardising Electrical Maintenance Procedure for City Gas Distribution (CGD) Industry and Safety Aspects Related to Electrical Installations	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
10	Hazard Identification and Risk Assessment of Coke Oven Battery and Modelling of Nitrogen Oxides and Sulfur Dioxide Emissions from a Thermal Power Plant	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
11	Hazard Identification and Risk Assessment of New Coke Oven Battery of Steel Authority of India Limited, Rourkela And High Potential Exposure Safety Gaps and Their Risk Calculations in a Food Processing Industry	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
12	Hazard Identification and Risk Assessment of New Plate Mill and Assessment of Water Quality in Scholars Avenue Zone of NIT Rourkela.	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
13	Hazard Operability Study for Blast Furnace and Particulate Matter Dispersion Modelling for a Power Plant	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
14	Hazars and operability study in new coal chemical department and Risk assessment in a food processing industry	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
15	Hazop Study on New Coal Chemical Plant,RSP and IFFCO,Paradip	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
16	HIRA OF KALAMSERRY RAILWAY OVER BRIDGE KOCHI METRO RAIL PROJECT KC-03, L&T AND ASPECT IMPACT ANALYSIS OF FIRE HAZARD FOR CITY GAS DISTRIBUTION CENTER, GREEN GAS LIMITED, AGRA	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
17	Layer of Protection Analysis at Green Gas Limited And HAZOP study of blast furnace 5 processes at RSP, SAIL	ARVIND KUMAR	NIT ROURKELA	23 May 2016	Completed
18	ASPEN PLUS SIMULATION ON CO2 REMOVAL FROM COAL AND GAS FIRED POWER PLANTS	ARVIND KUMAR	NIT ROURKELA	16 May 2019	Completed
19	Adsorption of Methylene Blue Dye On Luffa Cylindrica Fibers	ARVIND KUMAR	NIT ROURKELA	21 Jul 2020	Completed
20	Adsorption of heavy metals by pretreated biogas digestate: optimization of process parameters	ARVIND KUMAR	NIT ROURKELA	20 Jul 2021	Completed
21	Synthesis of 13X Zeolite-Activated Carbon composite for highly efficient removal of paracetamol in waste water	ARVIND KUMAR	NIT ROURKELA	15 May 2022	Completed

22	Removal of methyl red dye using Zirconium hydroxide impregnated Boron nitride	ARVIND KUMAR	NIT ROURKELA	20 Jul 2022	Completed
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23. UG Thesis Guided :

#	Title of the Project	Name of Supervisor(s)	University/Institute	Date of Award/Submission	Status
1	Adsorption of Phenol onto Banana Peels Activated Carbon	ARVIND KUMAR	NIT ROURKELA	11 May 2017	Completed
2	Aspen plus Simulation of carbon dioxide capture from coal fired power plants	ARVIND KUMAR	NIT ROURKELA	10 May 2018	Completed
3	OPTIMIZATION OF BIODIESEL PRODUCTION BY REACTIVE DISTILLATION USING ASPEN PLUS	ARVIND KUMAR	NIT ROURKELA	10 May 2018	Completed
4	PROCESS SIMULATION OF BIODIESEL PRODUCTION FROM WASTE OIL USING REACTIVE DISTILLATION	ARVIND KUMAR	NIT ROURKELA	10 May 2018	Completed
5	Simulation of DWC for Methanol Recovery and Glycerol Separation in Biodiesel Production	ARVIND KUMAR	NIT ROURKELA	28 Jun 2018	Completed
6	PRESSURE SWING DISTILLATION WITH ASPEN PLUS OF AZEOTROPIC MIXTURE	ARVIND KUMAR	NIT ROURKELA	11 May 2019	Completed
7	Styrene Plant Simulation, Optimization and Economic Analysis	ARVIND KUMAR	NIT ROURKELA	11 May 2019	Completed
8	SEPARATION OF BENZENE AND CYCLOHEXANE BY EXTRACTIVE DISTILLATION USING ASPEN SIMULATION	ARVIND KUMAR	NIT ROURKELA	12 May 2019	Completed
9	BIODEGRADATION OF SYNTHETIC AZO DYES BY BACTERIA	ARVIND KUMAR	NIT ROURKELA	11 May 2020	Completed
10	Synthesis of Micro-cellulose and Modification of Sludge-Based Adsorbent for Heavy Metal Removal	ARVIND KUMAR	NIT ROURKELA	11 May 2020	Completed
11	Characterization and optimization of spectrophotometric colour removal from dye containing wastewater by Coagulation-Flocculation	ARVIND KUMAR	NIT ROURKELA	11 May 2021	Completed
12	Removal of methylene blue dye using bagasse fly ash as an adsorbent	ARVIND KUMAR	NIT ROURKELA	11 May 2021	Completed
13	Adsorption of 2,4,6-trichlorophenol from Aqueous Solutions by Zirconium Impregnated Activated Carbon derived from Bael Fruit Shell	ARVIND KUMAR	NIT ROURKELA	10 May 2022	Completed
14	Removal of chromium (VI) ions from aqueous solution using sodium salt modified boron nitride-zirconium hydroxide composite.	ARVIND KUMAR	NIT ROURKELA	10 May 2022	Completed
15	Removal of Chromium by using Polyaniline-Zirconium oxide composite	ARVIND KUMAR	NIT ROURKELA	10 May 2022	Completed
16	Synthesis of 13X Zeolite-Activated Carbon composite for highly efficient removal of paracetamol in waste water	ARVIND KUMAR	NIT ROURKELA	10 May 2022	Completed

24. Fellow of professional Bodies :

#	Fellows	Year of Award	Membership Number

25. Membership of professional Bodies :

#	Name of professional body	Year of Membership	Grade of Membership	Membership Number
1	American Chemical Society (ACS)	2009	SR	30408479
2	Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES)	2013	SR	100163,
3	Indian Institute of Chemical Engineers (IChE)	2009	LM	LM 33739,
4	International Association of Computer Science and Information Technology (IACSIT).	2012	SR	80337244,
5	International Association of Engineers (IAENG)	2011	Member	113421,
6	Science and Engineering Institute (SCIEI)	2013	Member	009120111116001,
7	The Institution of Engineers (IE, India)	2006	LM	AM 093751-1

26. Seminars/Short-Term Courses/Workshop Organized :

#	Type	Title of the Program	Sponsoring Agency/ Self-	From Date	To Date	Your Role

			financed			
1	Short Term Course	INDUSTRIAL SAFETY AND HAZARDS MANAGEMENT	TEQIP-II	03 Oct 2016	04 Oct 2016	Coordinator
2	Short Term Course	INDUSTRIAL & MUNICIPAL WASTE MANAGEMENT	TEQIP-II	24 Jan 2017	25 Jan 2017	Coordinator

27. GIAN/ Other National Program Like GIAN Organized :

#	Type	Title of the Program	Sponsoring Agency/ Self-financed	From Date	To Date	Your Role
1	GIAN	171030G01, PROCESS SAFETY ENGINEERING	MHRD, NEWDELHI	28 May 2018	01 Jun 2018	Coordinator

28. Conferences Organized :

#	Type	Title of the Program	Sponsoring Agency/ Self-financed	From Date	To Date	Your Role
1	Conference	Recent Advances in Chemical and Environmental Engineering (RACEE-2012)	CSIR,DST,BRNS, INSA	20 Jan 2012	21 Jan 2012	Secretary
2	Conference	safety engineering education SEE-2016)	GREEN GAS Limited, LUCKNOW	29 Apr 2016	29 Apr 2016	Secretary

29. Professional Training Received/Short-Term Courses Attended :

#	Training Year	Nature of Training	Duration	Organization where training was provided
1	2006	Authorization, Procedures, Technologies, Treatment, Recycling and Reprocessing of Hazardous Waste	Nov. 20th -24th , 2006	IIT Roorkee
2	2006	Novel Separation Techniques in Process Industries	Dec 4th -8th , 2006	The Institution of Engineers (India), Roorkee local centre
3	2009	Petroleum Refining & Petrochemicals	1 – 6th June 2009	PETROTECH, New Delhi
4	2009	Pinch analysis: a tool for efficient use of energy	5th -9th Jan. 2009	NIT Rourkela
5	2009	Treatment and disposal of wastewaters	05th -09th Oct, 2009	SVNIT Surat
6	2010	Environment, health and safety management	Jan 25th-29th, 2010	IIT Roorkee
7	2013	Fire Safety Management	12-14 Sept., 2013	International Institute of Security and Safety Management, Newdelhi
8	2013	Petroleum Refining & Petrochemicals	03-07 June,2013	iiPM Gurgoan & PETROTECH, New Delhi

30. Seminar/ Conference/ Workshop Attended :

#	Title of the Program	Organized by	From Date	To Date
1	Environmental Degradation: Problems and preventions	Dept. of Chemical & Alcohol Tech. S. D. College of Engg. & Tech., Jansath Road, Muzaffamagar (U.P.)	17 Sep 2005	17 Sep 2005
2	Recent Trends in Science, technology & its applications	S. D. College of Engineering & Technology, Jansath Road, Muzaffamagar (U.P.) INDIA	07 Jan 2006	08 Jan 2006
3	Air Pollution & Health Impact (AISAPHI)	The Institution of Engineers (INDIA), Roorkee Local Centre (Opp. C.B.R.I) Roorkee, Uttranchal, INDIA	23 Feb 2006	24 Feb 2006
4	Energy and Environmental issues related to chemical industry	The Institution of Engineers (India), U. P. State Center, Lucknow	10 Mar 2007	11 Mar 2007
		S. D. College of Engineering &		

5	Public Participation for Environmental Control	Technology, Jansath Road, Muzaffarnagar (U.P.) INDIA	07 Apr 2007	07 Apr 2007
6	Hazards identification & Risk Assessment	Federation of Indian Chambers of Commerce and Industry And Disaster Management Institute at the pride Hotel, Ahmadabad	11 Dec 2008	12 Dec 2008
7	Open access to science publications: Policy perspective, Opportunities and challenges	India Habitat Centre, New Delhi	24 Mar 2009	24 Mar 2009
8	compliance and industry-institute interface	MoEF Odisha	31 Jul 2009	31 Jul 2009
9	International conference on chemical and bioprocess engineering (iccbpe-2009)	Kota Kinabalu, Sabah, Malaysia	12 Aug 2009	14 Aug 2009
10	International Conference on Environmental Science and Technology (ICEST 2010),	Bangkok, Thailand.	23 Apr 2010	25 Apr 2010
11	International Congress of Environmental Research (ICER 2010).	Reduit, Mauritius.	16 Sep 2010	18 Sep 2010
12	International Conference on recent advances in chemical engineering and technology (RACET 2011).	Cochin	10 Mar 2011	12 Mar 2011
13	Patent search and patenting	Intellectual Property Rights Cell, National Institute of Technology Rourkela, Supported by TEQIP-II	24 Mar 2012	24 Mar 2012
14	International Conference on Chemical and Molecular Engineering (ICCME-2012),	Zurich, Switzerland organized by World Academy of Science, Engineering and Technology.	05 Jul 2012	12 Jul 2012
15	onsite safety management	Youth Moment Federation of India	05 Aug 2012	05 Aug 2012
16	Bio-Medical Waste Management	Youth Moment Federation of India	05 Oct 2012	05 Oct 2012
17	International Conference on Innovative Approaches in Applied Sciences and Technologies (iAsT-2018) held at Nong Lam University, Ho Chi Minh City, Vietnam	Scientific & Educational Research Society Meerut	13 Jun 2013	17 Jun 2017
18	Prevention and control of dust pollution"	OSPCB, Odisha	02 Dec 2013	02 Dec 2013
19	AERMOD & CALPUFF air dispersion modelling	Lakes Environmental Canada	24 Nov 2014	29 Nov 2014
20	PROCESS SAFETY EDUCATION	IIT Gandhinagar, Ahmedabad	02 Dec 2014	02 Dec 2014
21	International Conference on Renewable Energy and Conversation (ICREC 2015) held at Hotel Capital Plaza, Bucharest, Romania	International Academy of Computer Technology	29 Oct 2015	31 Oct 2015
22	FLY ASH UTILIZATION	OSPCB ODISHA	19 Feb 2016	19 Feb 2016
23	International conference on aerosol and climate change	BOSE INSTITUTE, Darjeeling	24 Apr 2017	28 Apr 2017
24	4th International Conference on Energy, Environment and Economics, ICEEE2019,	Heriot-Watt University, Edinburgh	20 Aug 2019	22 Aug 2019

31. Sponsored Project Details :

#	Project Title	Sponsoring Agency Name	Starting Month-Year	Ending Month-Year	Amount (INR)	Status	Your Role	Total Number of Investigator(s)
1	Development of cost effective and high uptake capacity surface modified adsorbents for arsenic removal utilizing industrial wastes	CSIR	11-2009	1-2013	2500000	Completed	PI	1
2	Recovery of Chromium from the Tannery Wastewater	Model Exims (India) Pvt. Ltd.)	11-2020	11-2021	210000	Completed	PI	1
3	Nano zerovalent Iron-Graphene oxide Composite for enhanced biodegradation of wastewater; A novel strategy for boosting biogas production	DST	12-2020	12-2023	2268000	Ongoing	PI	3

32. Consultancy Project Details :

#	Project Title	Sponsoring Agency Name	Starting Month-Year	Ending Month-Year	Amount (INR)	Status	Your Role	Total Number of Investigator(s)
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33. Administrative/Institute Support Work (HOD,Dean,Chief Warden, Prof. Incharge(T&P), Advisor(Estate), CVO, PI(Exam), TEQIP(Coordinator)) :

#	Section/ Office/Institute level Committee	From	To	Position Held	Responsibility Type	Responsibilities
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34. Administrative/Institute Support Work (Warden,Asst. Warden, Associate dean, Chairman/Convener Institute Academic Committees, In-charge Computer Centre/ IT Services/ library/Admission/ Student activities and other institutional activities) :

#	Section/ Office/Institute level Committee	From	To	Position Held	Responsibility Type	Responsibilities
1	staff club	22 Feb 2013	06 Apr 2015	president	In-charge Other Institutional Activities	administrative

35. Administrative/Institute Support Work (Chairman and convener of different standing committee and special committee (ex officio status will not be considered), faculty in-charges of different units or equivalent) :

#	Section/ Office/Institute level Committee	From	To	Position Held	Responsibility Type	Responsibilities
1	Institute level	22 Feb 2013	28 Apr 2015	President	In-charge Different Units or Equivalent	running activities

36. Administrative/Institute Support Work (Departmental activities identified by HOD like lab. In-charges,or department level committee) :

#	Section/ Office/Institute level Committee	From	To	Position Held	Responsibility Type	Responsibilities
1	Institute level	07 Jul 2014	22 Jul 2016	Coordinator	In-charge Department Activities Identified by HOD	Managing course
2	Institute level	18 Nov 2010	31 Oct 2012	CTO of NCC	Department Level Committee	NCC
3	Office	15 Jul 2009	25 Jul 2014	Incharge	In-charge Department Activities Identified by HOD	managing

37. Any Other Administrative/Institute Support Work (PIC/ Editorial Board Members of SCI Journals.) :

#	Section/ Office/Institute level Committee	From	To	Position Held	Responsibility Type	Responsibilities
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38. Details of Academic Outreach Activities :

#	Academic Outreach Activities	Year
1	Certificate of appreciation received from the youth movement federation of India (YMFI) Rourkela a NGO	2014
2	Invited as chief guest on the occasion of National Safety day celebration at DRDO, Chandipur in held on 4th March, 2016 (National Safety day). Lecturer Delivered on title: SAFETY PROCESS VESSEL AND PIPE LINE	2015
3	Lecture delivered in One day webinar organized on Waste-2-wealth by BIT Mesra, Ranchi on 12 March, 2022	2022
4	reviewers of many top class journal	2018
5	Seminar on "Environmental Pollution Prevention" held on 2nd Dec. 2015 organized by YMFI in collaboration with OSPCB, Odisha at NIT Rourkela. Lecture Delivered Title: Environmental Pollution	2016
6	SERS (Scientific & Educational Research Society Meerut U.P.) Environmental Protection Research Award-2018 conferred in 1st INDO-ASEAN International Conference on Innovative Approaches in Applied Sciences and Technologies (iAsT-2018) held at Nong Lam University, Ho Chi Minh City, Vietnam	2018
7	STC conducting by Civil engineering department on Advanced water Treatment on 19-21/10/2016 at NIT Rourkela. Lecturer delivered on title: ADVANCED WATER TREATMENT PROCESS	2016
8	TEQIP-III sponsored workshop on "New trends in renewable Energy and Environmental Sciences (NTREES-2018)" organized by Department of Chemical Engineering, VSSUT Burla, Odisha from 23rd to 27th July 2018. Lecture Delivered on title: AIR POLLUTION	2018

39. Placement percentage (only the placement cell officers/faculty in-charge of placement) :

#	Year	Percentage of Placement(% to be based on total number of students pssing out and single job offer)
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40. Awards/Honours /Distinction :

SERS (Scientific & Educational Research Society Meerut U.P.) Environmental Protection Research Award-2018

41. Teaching and Research Plan for Next Five Years :

1. Continuing to prepare the video lectures of my course (Subjects) 2. Submitting projects to various funding agencies 3. Developing Environmental Pollution Abatement Lab. 4. filling patent on current research work.

42. Any Other Relevant Information :

43. Name and address of two References :

First Referee
 Name : Dr V C Srivastava Position : Associate Professor
 Address : Chemical Engineering Department, IIT Roorkee Email Id : vimalfch@iitr.ernet.in
 Phone Number : _____ Mobile : 9410372170

Second Referee
 Name : Prof. Vimal Singh Position : Professor
 Address : Chemical engineering , IIT Roorkee Email Id : vimal.kumar@ch.iitr.ac.in
 Phone Number : +91-1332-285694 Mobile : +917579024676

44. Did you previously apply for any post in this institute ? If yes, give particulars :

Yes! Application NO.: 17DCH04254; Advt. No.: NITR/ES/04/2017; Post: Associate Professor with AGP Rs. 9500 Application NO.: 19DCH0932107; Advt. No.: NITR/ES/02/2019; Post: Associate Professor with AGP Rs. 9500

45. Have you ever been discharged/suspended from any position ? :

No

46. Have you ever been convicted by any court of Law ?

No

47. Have you any relation among the employee of this institute ? If yes, give details.

No

23DCH6752415

Details of Credit Points Claimed by the Applicant

1. Externally Sponsored R & D Projects completed or ongoing credit points :

#	Project Title	Starting Month-Year	Ending Month-Year	Amount (INR)	Status	Your Role	Total Number of Investigator(s)	Credit Points
1	Development of cost effective and high uptake capacity surface modified adsorbents for arsenic removal utilizing industrial wastes	11-2009	1-2013	2500000	Completed	PI	1	8.00
2	Recovery of Chromium from the Tannery Wastewater	11-2020	11-2021	210000	Completed	PI	1	8.00
3	Nano zerovalent Iron-Graphene oxide Composite for enhanced biodegradation of wastewater; A novel strategy for boosting biogas production	12-2020	12-2023	2268000	Ongoing	PI	3	5.00
Total Credit								21.00
Claimed Credit Points								21.00

2. Consultancy Project Credit Points :

#	Project Title	Sponsoring Agency Name	Starting Month-Year	Ending Month-Year	Amount (INR)	Status	Your Role	Total Number of Investigator(s)	Credit Points
Total Credit									0
Claimed Credit Points									0

3. Patent granted credit Details credit points :

#	Project Title	Identification Number Title	Inventors	Status	Credit Points
Total Credit					0
Claimed Credit Points					0

4. Ph.D. Guidance (Completed Including Thesis Submitted) Credit Points :

#	Thesis Title	Your Role	Total No. of Supervisor(s)	Degree Awarded/Thesis Submission Date	Credit Points
1	Development of low cost adsorbent of phenol removal from aqueous solution	Co-supervisor	2	30 Dec 2015	3.00
	Microbial Degradation of Chlorophenol in Batch and Continuous				

2	Bioreactors: Kinetic Study and Optimization of Process Parameters	Supervisor	1	09 Jan 2016	8.00
3	MICROBIAL STRATEGIES FOR DECOLORIZATION OF ANTHRAQUINONE BASED DYES IN BATCH AND CONTINUOUS SYSTEMS	Supervisor	1	23 Oct 2020	8.00
4	Abatement of 2-chlorophenol from the aqueous environment by implementing the adsorbents prepared from lignocellulosic biomasses	Supervisor	1	11 Aug 2023	8.00
5	Nzvi And Fe ₃ O ₄ Based Composites For The Treatment Of Dairy Wastewater And Heavy Metal Removal By Adsorption Using Digested Sludge	Supervisor	1	05 Jan 2024	8.00
Total Credit					35.00
Claimed Credit Points					35.00

5. Paper Publication in SCI/Scopus indexed journals credit points (Since the last Appointment) :

#	Authors.Title.Journal.Vol, Issue,Pages,Month Year.DOI	Role	Publication Year	Indexed By	DOI	Credit Points
1	Kumar, A. and Prasad, B. and Mishra, I.M.. "Process parametric study for ethene carboxylic acid removal onto powder activated carbon using Box-Behnken design". Chemical Engineering and Technology. vol.30, no.7, pp.932-937,2007. 10.1002/ceat.200700084	First Author	2007	Scopus	http://dx.doi.org/10.1002/ceat.200700084	2.00
2	Kumar, A. and Prasad, B. and Mishra, I.M.. "Adsorptive removal of acrylonitrile by commercial grade activated carbon: Kinetics, equilibrium and thermodynamics". Journal of Hazardous Materials. vol.152, no.2, pp.589-600,2008. 10.1016/j.jhazmat.2007.07.048	First Author	2008	Scopus	http://dx.doi.org/10.1016/j.jhazmat.2007.07.048	2.00
3	Kumar, A. and Prasad, B. and Mishra, I.M.. "Optimization of process parameters for acrylonitrile removal by a low-cost adsorbent using Box-Behnken design". Journal of Hazardous Materials. vol.150, no.1, pp.174-182,2008. 10.1016/j.jhazmat.2007.09.043	First Author	2008	Scopus	http://dx.doi.org/10.1016/j.jhazmat.2007.09.043	2.00
4	Tripathi, P. and Srivastava, V.C. and Kumar, A.. "Optimization of an azo dye batch adsorption parameters using Box-Behnken design". Desalination. vol.249, no.3, pp.1273-1279,2009. 10.1016/j.desal.2009.03.010	Other	2009	Scopus	http://dx.doi.org/10.1016/j.desal.2009.03.010	2.00
5	Kumar, A. and Prasad, B. and Mishra, I.M.. "Optimization of acrylonitrile removal by activated carbon-granular using response surface methodology". Canadian Journal of Chemical Engineering. vol.87, no.4, pp.637-643,2009. 10.1002/cjce.20189	First Author	2009	Scopus	http://dx.doi.org/10.1002/cjce.20189	2.00
6	Tarangini, K. and Kumar, A. and Satpathy, G.R. and Sangal, V.K.. "Statistical optimization of process parameters for Cr (VI) biosorption onto mixed cultures of Pseudomonas aeruginosa and Bacillus subtilis". Clean - Soil, Air, Water. vol.37, no.4-5, pp.319-327,2009. 10.1002/clen.200900033	Other	2009	Scopus	http://dx.doi.org/10.1002/clen.200900033	2.00
7	Kumar, A. and Prasad, B. and Mishra, I.M.. "Isotherm and kinetics study for acrylic acid removal using powdered activated carbon". Journal of Hazardous Materials. vol.176, no.1-3, pp.774-783,2010. 10.1016/j.jhazmat.2009.11.102	First Author	2010	Scopus	http://dx.doi.org/10.1016/j.jhazmat.2009.11.102	2.00
8	Barman, G. and Kumar, A. and Khare, P.. "Removal of congo red by carbonized low-cost adsorbents: Process parameter optimization using a Taguchi experimental design". Journal of Chemical and Engineering Data. vol.56, no.11, pp.4102-4108,2011.	Principal Supervisor	2011	Scopus	http://dx.doi.org/10.1021/jc200554z	2.00

	10.1021/je200554z					
9	Lallan Singh Yadav, Bijay Kumar Mishra, Arvind Kumar, Kakoli Karar Paul.. "Arsenic removal using bagasse fly ash-iron coated and sponge iron char.". Journal of Environmental Chemical Engineering. vol.2, no.3, pp.1467-1473, Sep 2014. 10.1016/j.jece.2014.06.019	Principal Supervisor	2014	Scopus	http://dx.doi.org/10.1016/j.jece.2014.06.019	2.00
10	Arvind Kumar, B. Prasad, I. M. Mishra.. "Adsorption of acrylonitrile from aqueous solution using bagasse fly ash.". Journal of Water Process Engineering. vol.2, pp.129-133, Jun 2014. 10.1016/j.jwpe.2014.05.003.	Principal Supervisor	2014	Scopus	http://dx.doi.org/10.1016/j.jwpe.2014.05.003.	2.00
11	Bhishma P. Patel, Arvind Kumar.. "Biodegradation of 2,4-dichlorophenol by Bacillus endophyticus strain: optimization of experimental parameters using response surface methodology and kinetic study.". Desalination and Water Treatment. vol.57, no.34, pp.15932-15940, Aug 2015. 10.1080/19443994.2015.1076351	Principal Supervisor	2015	Scopus	http://dx.doi.org/10.1080/19443994.2015.1076351	2.00
12	Singh Yadav Lallan, Kumar Mishra Bijay, Kumar Arvind.. "Removal of phenol from aqueous solution by Mahua seed activated carbon: Kinetic, isotherm, mass transfer and isosteric heat of adsorption studies.". Chem. Ind. Chem. Eng. Q. vol.22, no.3, pp.263-273, Sep 2015. 10.2298/CICEQ150327040S	Principal Supervisor	2015	Scopus	http://dx.doi.org/10.2298/CICEQ150327040S	2.00
13	Bhishma P. Patel, Arvind Kumar.. "Optimization study for maximizing 2, 4-dichlorophenol degradation by Kocuria rhizophila strain using response surface methodology and kinetic study.". Desalination and Water Treatment. vol.57, no.39, pp.18314-18325, Aug 2015. 10.1080/19443994.2015.1091988	Principal Supervisor	2015	Scopus	http://dx.doi.org/10.1080/19443994.2015.1091988	2.00
14	Lallan Singh Yadav, Bijay Kumar Mishra, Arvind Kumar,. "Adsorption of Phenol from Aqueous Solutions by Bael Furit Shell Activated Carbon: Kinetic, Equilibrium, and Mass Transfer Studies". Theoretical Foundations of Chemical Engineering. vol.55, no.1, pp.122-131, Aug 2015. DOI: 10.1134/S0040579519010184	Principal Supervisor	2015	Scopus	http://dx.doi.org/ DOI:10.1134/S0040579519010184	2.00
15	Bhishma P. Patel, Arvind Kumar.. "Multi-substrate biodegradation of chlorophenols by defined microbial consortium.". 3 Biotech. no.6, pp.191, Sep 2016. 10.1007/s13205-016-0511-x	Principal Supervisor	2016	Scopus	http://dx.doi.org/ 10.1007/s13205-016-0511-x	2.00
16	Bhishma P. Patel, Arvind Kumar.. "Biodegradation of 4-chlorophenol in an airlift inner loop bioreactor with mixed consortium: effect of HRT, loading rate and biogenic substrate.". 3 Biotech. no.6, pp.117, Jun 2016. 10.1007/s13205-016-0435-5	Principal Supervisor	2016	Scopus	http://dx.doi.org/ 10.1007/s13205-016-0435-5	2.00
17	Bhishma P. Patel, Arvind Kumar.. "Biodegradation of 2,4-dichlorophenol in Packed- Bed Biofilm Reactor: Effect of Hydraulic Retention Time, Biogenic Substrate, and Loading Rate". Water Environment Research. vol.88, no.12, pp.2191-2197, Dec 2016. 10.2175/106143016X14733681695726	Principal Supervisor	2016	SCI	http://dx.doi.org/10.2175/106143016X14733681695726	2.00
18	Bhishma P. Patel, Arvind Kumar.. "Biodegradation and co-metabolism of monochlorophenols and 2,4-dichlorophenol by microbial consortium.". Clean: soil, air,	Principal Supervisor	2017	Scopus	http://dx.doi.org/10.1002/CLEN.201700329	2.00

	water. vol.45, no.9, pp.1-7,Sep 2017. 10.1002/CLEN.201700329					
19	Lallan Singh Yadav, Bijay Kumar Mishra, Kumar, A.. "Adsorption of Phenol from Aqueous Solutions by Bael Fruit Shell Activated Carbon: Kinetic, Equilibrium, and Mass Transfer Studies". Theoretical Foundations of Chemical Engineering. vol.53, no.1, pp.122-131,May 2019. 10.1134/S0040579519010184	Principal Supervisor	2019	Scopus	http://dx.doi.org/10.1134/S0040579519010184	2.00
20	Swati Sambita Mohanty, Arvind Kumar. "Response surface methodology mediated optimization of Indanthrene Blue RS by a novel isolated bacterial strain Bacillus flexus TS8". Water Environment Federation. Sep 2019. 10.1002/wer.1246	Principal Supervisor	2019	SCI	http://dx.doi.org/10.1002/wer.1246	2.00
21	Swati Sambita Mohanty, Arvind Kumar. "Response surface methodology mediated optimization of Indanthrene Blue RS by a novel isolated bacterial strain Bacillus flexus TS8". Water Environment Federation. vol.92, pp.569-578,Sep 2019. 10.1002/wer.1246	Principal Supervisor	2019	SCI	http://dx.doi.org/10.1002/wer.1246	2.00
22	Swati Sambita Mohanty, Arvind Kumar. "Optimization and kinetic studies on decolorization of Vat Green XBN by a newly isolated bacterial strain Proteus mirabilis PMS". Journal of Water Process Engineering. vol.37, pp.101529,Oct 2020. 10.1016/j.jwpe.2020.101529	Principal Supervisor	2020	Scopus	http://dx.doi.org/10.1016/j.jwpe.2020.101529	2.00
23	Swati Sambita Mohanty, Arvind Kumar.. "Biodegradation of Indanthrene Blue RS dye in immobilized continuous upflow packed bed bioreactor using comcob biochar.". Scientific reports. no.11, pp.13390,2021. 10.1038/s41598-021-92889-3	Principal Supervisor	2021	SCI	http://dx.doi.org/10.1038/s41598-021-92889-3	2.00
24	Swati Sambita Mohanty, Arvind Kumar.. "Enhanced degradation of anthraquinone dyes by microbial monoculture and developed consortium through the production of specific enzymes". Scientific reports. vol.11, no.1, pp.1-15,Apr 2021.	Principal Supervisor	2021	SCI	http://dx.doi.org/	2.00
25	StanzinTundupa, MariSelvam Sa, RoshiniP.S., ArvindKumar, AbantiSahoo,BalasubramanianParamasivana. "Evaluating the scientific contributions of biogas technology on rural development through scientometric analysis". Environmental Technology & Innovation. vol.24, pp.101879,Nov 2021. 10.1016/j.eti.2021.101879	Other	2021	SCI	http://dx.doi.org/10.1016/j.eti.2021.101879	2.00
26	Manoj Kumar Mahapatra, Arvind Kumar. "Taguchi optimization studies for abatement of 2-chlorophenol using neem seed activated carbon.". Chemical Engineering and Technology. vol.45, no.4, pp.641-648,Jan 2022. 10.1002/ceat.202100427	Principal Supervisor	2022	SCI	http://dx.doi.org/10.1002/ceat.202100427	2.00
27	Manoj Kumar Mahapatra, Arvind Kumar. "Studies on the Adsorption of 2-Chlorophenol onto Rice Straw Activated Carbon from Aqueous Solution and its Regeneration". Chemical and Biochemical Engineering Quarterly. vol.36, no.1, pp.51-65,Mar 2022. 10.15255/CABEQ.2021.2004	Principal Supervisor	2022	SCI	http://dx.doi.org/10.15255/CABEQ.2021.2004	2.00
28	Roshini Sasidharan, Arvind Kumar. "Magnetic adsorbent developed with alkali-thermal pretreated biogas slurry solids for the removal of heavy metals: optimization, kinetic, and	Principal	2022	SCI	http://dx.doi.org/10.1007/s11356-	2.00

	equilibrium study". Environmental Science and Pollution Research. vol.29, no.20, pp.30217-30232, Apr 2022. 10.1007/s11356-021-18485-0	Supervisor			021-18485-0	
29	Swati Sambita Mohanty, Arvind Kumar. "Decolorization of anthraquinone-based dye (Vat Brown R) by Pseudomonas aeruginosa (NCH - Optimization and kinetic study.". Indian Journal of Biochemistry and Biophysics. vol.59, no.7, pp.709-717, Jul 2022. 10.56042/ijbb.v59i7.37371	Principal Supervisor	2022	SCI	http://dx.doi.org/10.56042/ijbb.v59i7.37371	2.00
30	Roshini Sasidharan, Arvind Kumar. "Response surface methodology for optimization of heavy metal removal by magnetic biosorbent made from anaerobic sludge.". Journal of the Indian Chemical Society. vol.99, no.9, pp.100638, Sep 2022. 10.1016/j.jics.2022.100638	Principal Supervisor	2022	SCI	http://dx.doi.org/10.1016/j.jics.2022.100638	2.00
31	Akash Balakrishnan, Emmanuel Sebastian Kunnel, Roshini Sasidharan, Mahendra Chinthala, Arvind Kumar. "3D black g-C ₃ N ₄ isotype heterojunction hydrogels as a sustainable photocatalyst for tetracycline degradation and H ₂ O ₂ production.". Chemical Engineering Journal. vol.475, no.146163, 2023. 10.1016/j.cej.2023.146163	Principal Supervisor	2023	SCI	http://dx.doi.org/10.1016/j.cej.2023.146163	2.00
Total Credit						62.00
Claimed Credit Points						62.00

6. Papers Presented in National/International Conferences Credit Points :

#	Authors.Title.Conference.Vol, Issue,Pages,Month Year.DOI	Role	Indexed By	DOI	Conference Date	Credit Points
1	M. K. Mahapatra, A. Kumar.. "Water Hyacinth (Eichomia Crassipes) as an Effective Biosorbent for sorption of Phenol.". International Conference on Innovative Approaches in Applied Sciences and Technologies (iAsT-2018). vol.1, PP.20-28, Jun 2018,	Principal Supervisor	Other	http://dx.doi.org/		0.60
2	Kakoli Karar Paul, Arvind Kumar,. "Enrichment analysis of aerosol in urban region of indian steel city, Rourkela.". International Conference on Aerosol Climate Change Connection. Apr 2017,	Principal Supervisor	Other	http://dx.doi.org/		0.60
3	M K Mahapatra, Arvind Kumar,. "A short review on bio-butanol, a second generation bio-fuel production from Lignocellulosic biomass.". International Conference on Renewable Energy and Conversation. Oct 2015, Not Applicable	Principal Supervisor	Other	Not Applicable		0.60
4	Lallan Singh Yadav, Arvind Kumar. "Adsorptive removal brilliant green onto carbonized aegle marmelos.". International Conference on Chemical and Molecular Engineering. Jul 2012, Not Applicable	Principal Supervisor	Other	Not Applicable		0.60
5	Prateek Khare, Arvind Kumar.. "Arsenic removal from water using iron impregnated activated carbon.". International Conference on recent advances in chemical engineering and technology. Mar 2011, Not Applicable	Principal Supervisor	Other	Not Applicable		1.00
6	Ghanshyam barman and Arvind kumar.. "Optimization of process parameters for brilliant green removal.". International Conference on recent advances in chemical engineering and technology. Mar 2011, Not Applicable	Principal Supervisor	Other	Not Applicable		1.00
7	Arvind Kumar. "Design optimization using signal to noise ratio for Congo red removal onto granular activated carbon.". 3rd International Congress of Environmental Research. Sep	Principal Supervisor	Other	Not Applicable		1.00

	2010,Not Applicable					
8	Arvind Kumar. "A review of various technologies for the treatment of Cyanides bearing wastewaters.". International Conference on Environmental Science and Technology. Apr 2010,Not Applicable	Principal Supervisor	Other	Not Applicable		1.00
9	Arvind Kumar. "Adsorptive removal of acrylonitrile onto low cost adsorbent.". 3rd International conference on chemical and bioprocess engineering. Aug 2009,Not Applicable	Principal Supervisor	Other	Not Applicable		1.00
10	Arvind Kumar. "Probit analysis of explosion". International Conference on Safety. Dec 2014,Not Applicable	Principal Supervisor	Other	Not Applicable		1.00
11	Munshi, Basudeb; Panda, Swaraj; Kumar, Arvind. "Modelling and Simulation Study of CO2 Capturing Process in Coal Fired Power Plant using Various Amine Solvents". 4th International Conference on Energy, Environment and Economics(ICEEE2019) Edinburgh, UK, 20-22 August 2019.. Aug 2019,NOT APPLICABLE	First Author	Other	Not Applicable		0.60
12	Manoj Kumar Mahapatra and Arvind Kumar. "Optimization Studies for 2-chlorophenol Removal by Walnut Shell Activated Carbon (WAC) using Taguchi's Experimental Design". 32nd BANGKOK International Conference on "Nanotechnology, Materials, Biotechnology & Environmental Sciences. Dec 2022,NOT APPLICABLE	First Author	Other	Not Applicable		1.00
13	Arvind Kumar. "Upcycling of plastic wastes to Cu-MOF/Bi2S3 for the photocatalytic reclamation of antibiotics from wastewater". Iwa Sustainable Natural and Engineered Water Systems Management 2023. 13-16 Dec. Bangkok Thailand.. Dec 2023,	Principal Supervisor	Other	http://dx.doi.org/		1.00
Total Credit						11.00
Claimed Credit Points						10.00

7. Conduct of Workshops/FDP/Short term courses of minimum 05 working days duration offered as coordinator or convener credit points (Since the last Appointment) :

#	Type	Title of the Program	From Date	To Date	Your Role	Credit Points
Total Credit						0
Claimed Credit Points						0

8. Conduct of national programme like GIAN etc as course coordinator credit points (Since the last Appointment) :

#	Type	Title of the Program	From Date	To Date	Your Role	Credit Points
1	GIAN	171030G01, PROCESS SAFETY ENGINEERING	28 May 2018	01 Jun 2018	Coordinator	1.00
Total Credit						1.00
Claimed Credit Points						1.00

9. Conduct of National/ International conference as chairman or secretary credit points (Since the last Appointment) :

#	Type	Title of the Program	From Date	To Date	Your Role	Credit Points
1	Conference	Recent Advances in Chemical and Environmental Engineering (RACEE-2012)	20 Jan 2012	21 Jan 2012	Secretary	3.00
2	Conference	safety engineering education SEE-2016)	29 Apr 2016	29 Apr 2016	Secretary	3.00
Total Credit						6.00
Claimed Credit Points						6.00

10. PG Thesis Guided credit points (since the last Appointment) :

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#	Title of the Project	Name of Supervisor(s)	Date of Award/Submission	Credit Points
1	TREATMENT OF PHENOLIC WATER USING ADSORPTION	ARVIND KUMAR	11 Jul 2011	0.50
2	Adsorptive removal of Safranin (dye) using Low Cost Adsorbent	ARVIND KUMAR	18 Jul 2014	0.50
3	Microbial degradation of acetylsalicylic acid and ibuprofen	ARVIND KUMAR	25 Nov 2014	0.50
4	Photocatalytic degradation of hazardous saranin (o) dye by using self synthesized TiO2 nanoparticles	ARVIND KUMAR	15 May 2015	0.50
5	Adsorptive removal of Safranin (dye) using Low Cost Adsorbent	ARVIND KUMAR	18 Jul 2015	0.50
6	Photocatalytic degradation of hazardous saranin (o) dye by using self synthesized TiO2 nanoparticles	ARVIND KUMAR	09 Mar 2016	0.50
7	Hazars and operability study in new coal chemical department and Risk assessment in a food processing industry	ARVIND KUMAR	23 May 2016	0.50
8	Hazard Identification and Risk Assessment (HIRA) of New Plate Mill, Rourkela Steel Plant & Standardising Electrical Maintenance Procedure for City Gas Distribution (CGD) Industry and Safety Aspects Related to Electrical Installations	ARVIND KUMAR	23 May 2016	0.50
9	HIRA OF KALAMSERRY RAILWAY OVER BRIDGE KOCHI METRO RAIL PROJECT KC-03, L&T AND ASPECT IMPACT ANALYSIS OF FIRE HAZARD FOR CITY GAS DISTRIBUTION CENTER, GREEN GAS LIMITED, AGRA	ARVIND KUMAR	23 May 2016	0.50
10	Hazop Study on New Coal Chemical Plant, RSP and IFFCO, Paradip	ARVIND KUMAR	23 May 2016	0.50
11	Layer of Protection Analysis at Green Gas Limited And HAZOP study of blast furnace 5 processes at RSP, SAIL	ARVIND KUMAR	23 May 2016	0.50
12	DEVELOPING A SAFETY MANAGEMENT PLAN AND ITS IMPLEMENTATION AT DESPL	ARVIND KUMAR	23 May 2016	0.50
13	Hazard Identification and Risk Assessment of Coke Oven Battery and Modelling of Nitrogen Oxides and Sulfur Dioxide Emissions from a Thermal Power Plant	ARVIND KUMAR	23 May 2016	0.50
14	Hazard Identification and Risk Assessment of New Plate Mill and Assessment of Water Quality in Scholars Avenue Zone of NIT Rourkela.	ARVIND KUMAR	23 May 2016	0.50
15	Hazard Identification and Risk Assessment of New Coke Oven Battery of Steel Authority of India Limited, Rourkela And High Potential Exposure Safety Gaps and Their Risk Calculations in a Food Processing Industry	ARVIND KUMAR	23 May 2016	0.50
16	Hazard Operability Study for Blast Furnace and Particulate Matter Dispersion Modelling for a Power Plant	ARVIND KUMAR	23 May 2016	0.50
17	EHS RISK ASSESMENT OF M.R.C.S.B PROJECT, L&T, GOA (UNDER CONSTRUCTION) AND DESIGN OF CITY GAS DISTRIBUTION NETWORK BY USING TECHNICAL STANDARDS AND SPECIFICATION INCLUDING SAFETY STANDARDS	ARVIND KUMAR	23 May 2016	0.50
18	ASPEN PLUS SIMULATION ON CO2 REMOVAL FROM COAL AND GAS FIRED POWER PLANTS	ARVIND KUMAR	16 May 2019	0.50
19	Adsorption of Methylene Blue Dye On Luffa Cylindrica Fibers	ARVIND KUMAR	21 Jul 2020	0.50
20	Adsorption of heavy metals by pretreated biogas digestate: optimization of process parameters	ARVIND KUMAR	20 Jul 2021	0.50
21	Synthesis of 13X Zeolite-Activated Carbon composite for highly efficient removal of paracetamol in waste water	ARVIND KUMAR	15 May 2022	0.50
22	Removal of methyl red dye using Zirconium hydroxide impregnated Boron nitride	ARVIND KUMAR	20 Jul 2022	0.50
Total Credit				11.00
Claimed Credit Points				10.00

11. UG Thesis Guided credit points (since the last Appointment) :

#	Title of the Project	Name of Supervisor(s)	Date of Award/Submission	Credit Points
1	Adsorption of Phenol onto Banana Peels Activated Carbon	ARVIND KUMAR	11 May 2017	0.25
2	OPTIMIZATION OF BIODIESEL PRODUCTION BY REACTIVE DISTILLATION USING ASPEN PLUS	ARVIND KUMAR	10 May 2018	0.25
3	PROCESS SIMULATION OF BIODIESEL PRODUCTION FROM WASTE OIL USING REACTIVE DISTILLATION	ARVIND KUMAR	10 May 2018	0.25

4	Aspen plus Simulation of carbon dioxide capture from coal fired power plants	ARVIND KUMAR	10 May 2018	0.25
5	Simulation of DWC for Methanol Recovery and Glycerol Separation in Biodiesel Production	ARVIND KUMAR	28 Jun 2018	0.25
6	PRESSURE SWING DISTILLATION WITH ASPEN PLUS OF AZEOTROPIC MIXTURE	ARVIND KUMAR	11 May 2019	0.25
7	Styrene Plant Simulation, Optimization and Economic Analysis	ARVIND KUMAR	11 May 2019	0.25
8	SEPARATION OF BENZENE AND CYCLOHEXANE BY EXTRACTIVE DISTILLATION USING ASPEN SIMULATION	ARVIND KUMAR	12 May 2019	0.25
9	BIODEGRADATION OF SYNTHETIC AZO DYES BY BACTERIA	ARVIND KUMAR	11 May 2020	0.25
10	Synthesis of Micro-cellulose and Modification of Sludge-Based Adsorbent for Heavy Metal Removal	ARVIND KUMAR	11 May 2020	0.25
11	Removal of methylene blue dye using bagasse fly ash as an adsorbent	ARVIND KUMAR	11 May 2021	0.25
12	Characterization and optimization of spectrophotometric colour removal from dye containing wastewater by Coagulation-Flocculation	ARVIND KUMAR	11 May 2021	0.25
13	Removal of Chromium by using Polyaniline-Zirconium oxide composite	ARVIND KUMAR	10 May 2022	0.25
14	Adsorption of 2,4,6-trichlorophenol from Aqueous Solutions by Zirconium Impregnated Activated Carbon derived from Bael Fruit Shell	ARVIND KUMAR	10 May 2022	0.25
15	Removal of chromium (VI) ions from aqueous solution using sodium salt modified boron nitride-zirconium hydroxide composite.	ARVIND KUMAR	10 May 2022	0.25
16	Synthesis of 13X Zeolite-Activated Carbon composite for highly efficient removal of paracetamol in waste water	ARVIND KUMAR	10 May 2022	0.25
Total Credit				4.00
Claimed Credit Points				4.00

12. Text/ Reference book published from reputed international publishers credit points (Since the last Appointment) . :

#	Type	Title	Authors	Year of Publication	Publisher	Credit Points
Total Credit						0
Claimed Credit Points						0

13. Text/ Reference book published from reputed national publishers or book chapters in the books published by reputed international publishers credit points (Since the last Appointment) . :

#	Type	Title	Authors	Year of Publication	Publisher	Credit Points
1	Book Chapter	Fermentation of Oil Extraction: Bioethanol, Acetone and Butanol Production	Manoj Kumar Mahapatra, Arvind Kumar	2019	Springer Nature	2.00
2	Book Chapter	Biofuel Production: Global Scenario and Future Challenges.	Manoj Kumar Mahapatra, Arvind Kumar	2020	Springer	2.00
Total Credit						4.00
Claimed Credit Points						4.00

14. Details of theory Courses taught (over and above 6 credits hrs.) credit points (Since the last Appointment) :

#	Course Details	Number of hours/week with credit	Credit Points
1	CH-313, Process plant safety; CH-6433, Environmental Management System; CH-617, CH-617, Fire Engineering and Explosion Control	9	3.00
2	CH-226, Treatment of Industrial Effluent; CH-640, Safety in Chemical Industry; CH-646, Hazards and Risk Analysis	9	3.00
Total Credit			6.00
Claimed Credit Points			6.00

15. Details of establishment of new Labs credit points (since the last Appointment) :

#	Name of Lab established	Sponsoring Agency	Co-Ordinator(s)	Credit Points
1	ENVIRONMENTAL POLLUTION ABATEMENT LAB	NIT ROURKELA	PROF. S MISHRA	4.00

2	Air Dispersion Modeling Laboratory	NIT ROURKELA	PROF. B. MUNSHI	4.00
Total Credit				8.00
Claimed Credit Points				4.00

16. Length of service credit points (since the last Appointment) :

Length of service over and above the relevant minimum teaching experience required for the give card	Credit Point
12 Year(s) 9 Month(s)	10.00
Total Credit	10.00
Claimed Credit Points	10.00

17. HOD,Dean,Chief Warden,Prof. Incharge(T&P),Advisor(Estate),CVO,PI(Exam),TEQIP(Coordinator) credit Points (Since the last Appointment) :

#	Responsibility Type	Responsibilities	Authority Department/ Collage	From	To	Credit Points
Total Credit						0
Claimed Credit Points						0

18. Warden,Asst. Warden, Associate dean, Chairman/Convener Institute Academic Committees,In-charge Computer Centre/IT Services/library/Admission/Student activities and other institutional activities credit points(Since the last Appointment) :

#	Responsibility Type	Responsibilities	Authority Department/ Collage	From	To	Credit Points
1	In-charge Other Institutional Activities	administrative	staff club	22 Feb 2013	06 Apr 2015	2.50
Total Credit						2.50
Claimed Credit Points						2.50

19. Chairman and convener of different standing committee and special committee (ex officio status will not be considered), faculty in-charges (Each for one Year duration) of different units or equivalent credit points(Since the last Appointment) :

#	Responsibility Type	Responsibilities	Authority Department/ Collage	From	To	Credit Points
Total Credit						0
Claimed Credit Points						0

20. Departmental activities identified by HOD like lab. In-charges,or department level committee for a minimum period of one year credit points(Since the last Appointment) :

#	Responsibility Type	Responsibilities	Authority Department/ Collage	From	To	Credit Points
Total Credit						0
Claimed Credit Points						0

21. Details of significant outreach activities credit Points (Since the last Appointment) . :

#	Academic Outreach Activities	Year	Credit points
1	TEQIP-III sponsored workshop on "New trends in renewable Energy and Environmental Sciences (NTREES-2018)" organized by Department of Chemical Engineering, VSSUT Burla, Odisha from 23rd to 27th July 2018. Lecture Delivered on title: AIR POLLUTION	2018	1.00
2	Invited as chief guest on the occasion of National Safety day celebration at DRDO, Chandipur in held on 4th March, 2016 (National Safety day). Lecturer Delivered on title: SAFETY PROCESS VESSEL AND PIPE LINE	2015	1.00
3	Seminar on "Environmental Pollution Prevention" held on 2nd Dec. 2015 organized by YMFI in collaboration with OSPCB, Odisha at NIT Rourkela. Lecture Delivered Title: Environmental Pollution	2016	1.00
4	reviewers of many top class journal	2018	1.00
5	SERS (Scientific & Educational Research Society Meerut U.P.) Environmental Protection Research Award-2018 conferred in 1st INDO-ASEAN International Conference on Innovative Approaches in Applied Sciences and Technologies (IAS-T-2018) held at Nong Lam University, Ho Chi Minh City, Vietnam	2018	1.00
6	STC conducting by Civil engineering department on Advanced water Treatment on 19-21/10/2016 at NIT Rourkela. Lecturer delivered on title: ADVANCED WATER TREATMENT PROCESS	2016	1.00
7	Certificate of appreciation received from the youth movement federation of India (YMFI) Rourkela a NGO	2014	1.00
8	Lecture delivered in One day webinar organized on Waste-2-wealth by BIT Mesra, Ranchi on 12	2022	1.00

March, 2022		
Total Credit		8.00
Claimed Credit Points		4.00

22. Fellowships of IEEE, FNA, FNAE, FNASc. credit Points :

#	Fellows	Year of Award	Credit Points
Total Credit			0
Claimed Credit Points			0

23. Placement percentage (only the placement cell officers/faculty in-charge of placement) credit Points (Since the last Appointment). :

#	Year	Percentage of Placement(% to be based on total number of students pssing out and single job offer)	Credit Points
Total Credit			0
Claimed Credit Points			0

24. Carry Forward of exhaustible credit Points (From last Appointment). :

#	AdvtNo	Advt Date	Offer Letter Date	Last Appointment Date	Follow NIT Rect. Rule ?	Carry Forward Credit Points
Total Credit						0
Claimed Credit Points						0

Listed below are the credit points secured against each head; Please verify the same before submitting.:

Sl.No.	Description	RR Sl.No.	Claimed Credit Points	Documents?
1	Sponsored Research	1	21.00	Yes
2	Doctoral Students	3	35.00	Yes
3	Journal Papers	4	62.00	DOI
4	Conference Papers	5	10.00	DOI
5	Administrative Responsibility-II	7	2.50	Yes
6	Administrative Responsibility-III	8	0.00	Yes
7	Administrative Responsibility-IV	9	0.00	Yes
8	CEP-II	11	1.00	Yes
9	CEP-III	12	6.00	Yes
10	Length of Service	13	10.00	Yes
11	Establishment of New Lab(s)	14	4.00	Yes
12	Theory Courses Taught	15	6.00	Yes
13	PG Dissertation	16	10.00	Yes
14	UG Projects	17	4.00	Yes
15	Book Published-II	19	4.00	DOI
16	Outreach Activity	20	4.00	Yes

24. Total Credit Points Claimed :

179.50

Application Fee to be Paid through SB Collect :

Rs. 750/-

I solemnly agree to the following--

Should there be any error detected in credit point calculations, inadvertently made by me or by any other means, or there is a change in the rules of recruitment, the credit points would be recalculated by the NIT Rourkela administration and the same shall be abided by the me . If the claimed credit points by me is found to be grossly inappropriate, NIT Rourkela administration reserves the rights to reject the candidature.

I solemnly agree to the following regarding Payment of Application Fee--

I acknowledge that I have to pay the Application Fee against each Application Number through the State Bank Collect portal (under the Payment Category as "Faculty Recruitment 2023 Advt . No . NITR/ES/06/2023") after the submission of Application as per the advertisement, failing which my application will be regretted by the NIT Rourkela administration.

Declaration

I hereby declare that I have carefully gone through the circular/adv number **NITR/ES/06/2023** and [recruitment rules](#) and have fully understood it. Further, I certify that all particulars provided by me in this application form are correct and true to the best of my knowledge and belief. There has been no suppression of any material facts. Detection of any false information at any point of time will lead to rejection of my candidature/selection summarily.

Date : 15 Jan 2024

Signature of Applicant