

Biodata: Prof. Dipteek Parmar



1. Name: Dipteek Parmar

2. Date and Place of Birth: July 24th 1971 (*Village-Santpur, Aburoad, Sirohi District, Rajasthan*)

3. Address for correspondence

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4. Educational Qualification

Schooling (Class 1st to 12th): Central School, No. 1, Jaipur

Sl. No	Degree / Specialization	University / Institution	Year of passing	Division or equivalent
1	B.E (Civil Engineering)	NIT Surat (erstwhile REC, Surat)	1992	I
2	M. Tech (Water Resources Engineering)	IIT, Delhi	Dec. 1993	I
3	Ph.D. (Civil Engineering)	IIT, Delhi	July 2011	-

Ph.D. Topic: *Simulation and Multi-objective Optimization for River Water Quality Management*

M.Tech Topic: *Adequacy of Water Distribution System for a Planned Horizon: A Case Study*

6. Experience (in reverse chronological order)

S. No.	Designation	Name & Address of the Employer	Period of service	Scale of pay	Nature of work and level of responsibilities
1	Professor (Civil Engineering)	Harcourt Butler Technical University, Kanpur (erstwhile HBTI Kanpur)	21-07-2011 to till date	Rs.144200-218200 (7 th CPC) AGP- 10000/- (present basic- Rs. 1,99,600/-)	Teaching, Research and other administrative duties assigned by the university
2	Associate Professor	Harcourt Butler Technical University, Kanpur	01-01-2006 to 20-07-2011	37400-67000/- (6 th CPC, AGP- Rs.9000/-) do
3	Assistant Professor	Harcourt Butler Technical University, Kanpur	26-11-1999 to 31-12-2005	12000-420-18300/- (5 th CPC) do
4	Lecturer	Delhi College of Engineering, Delhi	11-04-96 to 25-11-1999	Rs. 8000-275-13500/- (4 th CPC) do
5	Assistant Design Engineer	MECON (I) Ltd., New Delhi	03-01-1994 to 10-04-1996	4000-174-7150 (IDA)	Design, Site supervision, Basic Engineering
Total Experience				28 yrs and 3 months	

7. Administrative duties performed (during last 28 years of service in teaching/industry).

- a) *Dean (Academic Affairs) (September 30th 2015 to September 16th 2017) (two terms)*
- b) *Dean (CE&IQA) (Sept. 17th 2017 to September 17th 2019)*
- c) *Head, Department of Civil Engineering, HBTI, Kanpur- Three terms (July 16th, 2001 to July, 28th, 2003; October 1st 2012 to October 15th 2015), October 14th 2021 to till date. (Third term as Head, CED)*
- d) *Coordinator, B.Tech Admissions-2017*
- e) *Coordinator, RUSA (March 2021 onwards)*
- f) *Coordinator, Ordinance Preparation Committee 2017 (for B.Tech, M.Tech, Ph.D in HBTU Kanpur)*
- g) *Professor I/C (Recruitment): Working since September 2021*
- h) *Chairman, Civil Maintenance (2010 to 2012 January)*
- i) *Nodal Officer (Equity Assurance), TEQIP-III (June 2018 to September 30th 2021)*
- j) *Chairman, SC/ST Scholarship Committee (2008, 2009, 2010)*
- k) *Assistant Dean (Academic Affairs), HBTI, Kanpur (Three terms) (from July 21st 2000 to November, 2000; May 7th 2007 to April 23rd 2010; May 4th 2012 to 2013).*
- l) *Member, B.E Admission Committee (for 1996, 1997, 1998, 1999), (in Delhi College of Engineering)*
- m) **Post Graduate Co-coordinator of Civil Engineering Department**
- n) *Coordinator, PMGSY, October 2011 to September 2014*
- o) *Chairman, ACEDEC-2003, National Conference on Advances in Civil Engineering: Perspectives of Developing Countries.*
- p) *Chairman, ICMEWRS, International Conference on Modeling of Environmental and Water Resources Systems*

In addition, I have been involved with 69 (approx.) different committees dealing with various issues in the university (erstwhile institute) (details mentioned in Annexure - 8)

8. Summary of Professional Contribution, Research, Extension and Continuing Education

S.No.	Description of item		Nos.
1	Published Research Contribution	Peer reviewed International Journal = 20 (13 published in ASCE)	20 (18 published and 02 in press) + 02 (under review) + 5 (to be communicated) (18 papers in Q1/Q2)
		National Journals	01
		International Conferences	41
		National Conferences	22
		Training programmes	03
2.	Books edited	International Conferences / National Conference Proceeding, STC Proceeding	05
3	Research Guidance	Ph.D Guidance	05 (ongoing) (03 to submit the thesis

			by 2022 end)
		M.Tech thesis guided	44 (awarded) plus 04 (ongoing)
		B.Tech Project guidance	28 (awarded) plus 01 (ongoing)
4	Reviewer	Reviewer of peer reviewed International Journals (SCI/SCIE/SCOPUS indexed international journals only)	<p>14 nos. Journals</p> <p>a) Journal of Hydraulic Engineering, ASCE</p> <p>b) Journal of Water Resources Planning and Management, ASCE, ASCE</p> <p>c) Water Resources Management, Springer</p> <p>d) Journal of Environmental Management, Elsevier</p> <p>e) Environmental Monitoring and Assessment, Springer</p> <p>f) Environmental Earth Science, Springer</p> <p>g) Journal of Urban Forestry and Urban greening, Elsevier</p> <p>h) Sustainable Water Resources Management, Springer</p> <p>i) Urban Water Journal, Taylor and Francis</p> <p>j) Desalination and Water Treatment, Taylor and Francis</p> <p>k) International Journal of Environmental and waste Management, Inderscience</p> <p>l) Applied Water Science, Springer</p> <p>m) Polish journal of environmental studies</p> <p>n) Journal of Hydro-environmental Research)</p>
5	Research Project handled*	a) AICTE (TAPTEC)	a) 01 (AICTE) (TAPTEC) (Value-8.75 lacs) Duration- 2 years (major amount was returned back on account of unspent balance due to QIP leave)
6	Prepared the proposal for Innovation and Incubation Centre in Civil Engineering	Govt. of UP	Rs.2.83 Crore (Sanctioned); received Rs. 70.32 lacs
7	Total value of consultancy projects	UP Jal Nigam, KDA, JSCL, etc	Rs. 30 lacs (approximately)
8	Continuing Education and outreach	Seminar, conferences/ STC organized	07
Seminar/Conferences/ Workshop attended		15	
Short term courses /Refresher courses attended		34	
Invited Lectures		39	
9	Membership of	05	05

	professional bodies	(ASCE, IAH, IWRS, IE(I), SoIE)
10	Devised the performa for SWOT Analysis	-
11	Devised the methodology for diagnostic test	-
12	<p>Others professional associations</p> <p>a) BoG Member, REC Banda (Jan 2018 to 2021)</p> <p>b) BoS member (Environmental Engineering) Member, Dr. AKTU Lucknow</p> <p>c) RDC Member (Civil and environmental Science and engineering), Dr. AKTU Lucknow), Since 2015</p> <p>d) RDC member (Civil Engg., Integral University)</p> <p>e) Selection Committee member for technical positions (IIT Kanpur)</p> <p>f) Selection Committee member (Coal India Ltd.)</p> <p>g) Selection Committee member (UPPSC Allahabad)</p> <p>h) Selection Committee member for faculty positions (CSJM University, Kanpur)</p> <p>i) Selection Committee (Polytechnic, Mathura)</p> <p>j) Selection Committee member for contractual faculty positions (IET Lucknow, CSA Kanpur, KEC Kanpur)</p> <p>k) Paper setter (UPPSC Allahabad, MPPSC Indore, IGNOU)</p> <p>l) Ph.D Thesis Examiner-06 nos. (Gautam Buddha University-1, PEC Chandigarh-1, NIT Patna-3, SHUATS Allahabad)</p> <p>m) M.Tech Thesis Examiner- 37 students (BIET Jhansi- 08 nos., MMMUT Gorakhpur- 10 nos., IET Lucknow-19)</p>	

***Detailed Information on Academic, Research, Continuing Education,
Extension activities and other Professional Contribution***

**ANNEXURE 1
(Research Publications)**

A. Refereed/ peer reviewed International Journals (18 published + 02 in press, +2 under review)

1. Sippi, S. and **Parmar, D. (2022)** “Water Quality based Ranking and Benchmarking of Rivers in India using Multicriteria Decision Making Technique.”, Journal of Hazardous, Toxic and Radioactive waste, **ASCE**, 26(2), doi: 10.1061/(ASCE)HZ.2153-5515.0000669 (**IF- 1.12**) (**Q2**)
2. Yadav, D. V., **Parmar, D.**, Ganguly, R. and Shukla, S. (**forthcoming**). “Efficiency Evaluation of Sewage Treatment Plants in Delhi, India using Tolerance based Data Envelope Analysis”, *India*, Environmental Monitoring and Assessment, Springer, **Springer, (Accepted) (Q2)**
3. Bhadauriya, V., **Parmar, D.**, Ganguly, R., Rathi, A. and Kumar, P. (**2022**). “Exposure Assessment of PM2.5 in Temple Premises and Crematoriums in Kanpur, India.”, Environmental Science and Pollution Research, doi:10.1007/s11356-022-18739-5 (**IF- 4.223**) (**Q2**)
4. Prasad, R.K. and **Parmar, D. (2022)**. Discussion of “Chromium Transport Modeling in Tannery Effluent from a Surface Water Body to Groundwater Regime: Case Study in Kodaganar Basin by J. Colins Johnny; M. C. Sashikkumar; J. Rajesh Banu; and Gopalakrishnan Kumar.”, Journal of Hazardous, Toxic and Radioactive Waste, **ASCE**, 26(1), doi.org/10.1061/(ASCE)HZ.2153-5515.0000664 (**IF- 1.12**) (**Q2**)
5. Prasad, R.K. and **Parmar, D (2022)** "Discussion of “Framework for Modeling Lead in Premise Plumbing Systems Using EPANET by J. B Burkhardt, H. Woo, J. Mason, F. Shang, S. Triantafyllidou, M. R. Schock, D. Lytle and R. Murray", Journal of Water Resources Planning and Management, **ASCE**, 148(2), doi.org/10.1061/(ASCE)WR.1943-5452.0001519 (**IF- 3.39**) (**Q1**)
6. Prasad, R.K. and **Parmar, D. (2021)** Discussion on "Hydraulic Analysis of Intermittent Water Distribution Networks Considering Partial-Flow Regimes by S. Mohan and G. R. Abhijith, ", Journal of Water Resources Planning and Management, **ASCE**, 147(11), doi.org/10.1061/(ASCE)WR.1943-5452.0001467 (**IF- 3.39**) (**Q1**)
7. Prasad, R.K. and **Parmar, D. (2021)** Discussion on "Effect of Pipe Size and Location on Water-Main Head Loss in Water Distribution Systems" by Saeed Hashemi, Yves Filion, Vanessa Speight and Andrew Long," , Journal of Water Resources Planning and Management, **ASCE**, 147(10), doi.org/10.1061/(ASCE)WR.1943-5452.0001459, (**IF 3.39**) (**Q1**)
8. **Parmar, D. (2021)**. Discussion on “Effect of Water Shortage and Pollution of Irrigation Water on Water Reuse for Irrigation in the Nile Delta.” By Walaa Assar; Mona G. Ibrahim; Wael Mahmood; Ayman Allam; Ahmed Tawfik; and Chihiro Yoshimura, Journal of Irrigation and Drainage Engineering, 147(2), **ASCE**, DOI: 10.1061/(ASCE)IR.1943-4774.0001533 (**IF: 1.647/1.37**) (**Q2**)

9. **Parmar, D.** and Keshari, A.K., Multiobjective Wasteload Allocation: Application to Delhi stretch of the river Yamuna, India, *International Journal of Environmental and Waste Management*, **Inderscience**, DOI: 10.1504/IJEW.2023.10045111, (**in press**)
10. **Parmar, D.** and Keshari, A.K. (2020). Discussion of “Water Quality–Based Environmental Flow under Plausible Temperature and Pollution Scenarios.” by Shushobhit Chaudhary, C. T. Dhanya, Arun Kumar, and Rehana Shaik", "DOI.org/10.1061/(ASCE) HE.1943-5584.0001780", *Journal of Hydrologic Engineering*, **ASCE**, 25 (6), [https://doi.org/10.1061/\(ASCE\)HE.1943-5584.0001780](https://doi.org/10.1061/(ASCE)HE.1943-5584.0001780). (**IF: 2.025/1.56**) (**highest downloaded/read discussion paper in last 6 years**). (**Awarded the best discussion award by JoHE, ASCE for the year 2021**) (Q2)
11. **Parmar, D.** and Keshari, A.K. (2018). “Simulating Strategic Measures for Managing Water Quality in the Delhi stretch of the River Yamuna, India”, *Sustainable Water Resources Management*, **Springer**, 4(4), 1123-1133. (**Citation 4**) (Q3)
12. **Parmar, D.** and Rai, M. (2017). “Performance Evaluation of Combined Biomedical Waste Treatment Plants with Specific Focus on Incinerators Using Data Envelope Analysis in Uttar Pradesh.”, India, *Journal of Hazardous, Toxic, and Radioactive Waste*, **ASCE**, 21(1), doi.org/10.1061/(ASCE)HZ.2153-5515.0000321 (**Citation: 2**) (**IF: 1.12**). (Q2)
13. **Parmar, D.** and Keshari, A.K. (2014). Wasteload allocation using wastewater treatment and flow augmentation, *Environmental modeling and assessment*, **Springer**, 19(1), 35-44. (**Citation: 10**) (**IF: 2.333**) (Q2)
14. Ansari, K.F., Gehlot, C.L., and **Parmar, D.** (2012). “Some Novel Oxadiazolyl/Azetidinyl Benzimidazole Derivatives: Synthesis and in vitro Biological Evaluation”, *Synthetic Communications*, **Taylor and Francis**, *Synthetic Communications*, 42(24), DOI: 10.1080/00397911.2011.580881, (**Citation: 3**) (**IF: 1.796**) (Q4)
15. **Parmar, D.** and Keshari, A.K. (2012). “Sensitivity Analysis of Water Quality for Delhi Stretch of river Yamuna, India.” *Environmental Monitoring and Assessment*, **Springer**, 184 (3), 1487-1508. (**Citation: 35**) (**2.513**) (Q2)
16. **Parmar, D.** and Keshari, A.K. (2011). “Discussion on “Assessment of Nitrogen and Phosphorus Control Tradeoffs Using a Water Quality Model with a Response Surface Method” by P. Wang and Lewis C. Linker, *Journal of Water Resources Planning and Management*, **ASCE**, 137 (5), 468-468. (**Citation: 1**) (**IF: 3.39**) (Q1)
17. **Parmar, D.** and Prasad, R.K. (2010). Discussion on “Multiobjective Strategic Evaluation for Urban Development in Kaohsiung, Taiwan: Case Study” by Juan-Yuan Teng; Wen-Chih Huang; and Miin-Jye Huang, *Journal of Urban Planning and Management*, **ASCE**, 136 (3), 285. (**IF: 2.197**) (Q2)
18. **Parmar, D.** (2008). Discussion on “Simultaneous Layout and Size Optimization of Water Distribution Networks: Engineering Approach” by M. H. Afshar, M. Akbari and M. A. Marino, *Journal of Infrastructure Systems*, **ASCE**, 15(2), 136-137. (**Citation 1**) (**IF: 2.734**) (Q2)
19. Prasad, R. K. and **Parmar, D.** (2007) Discussion on “Optimal Pumping from Skimming Wells” by S.V.N. Rao; Sudhir Kumar; Shashank Shekhar and D. Chakraborty, *Journal of Hydrologic Engineering*, No.6, **ASCE**, 12(6), 708-709. (**Citation 1**) (**IF: 2.025**) (Q2)
20. Keshari, A. K. and **Parmar, D.** (2006) Discussion on “Pollution Management in the Twentieth Century”. *Journal of Environmental Engineering*, **ASCE**, 132(11), 1543-1546. (**Citation: 5**) (**IF: 1.492**) (Q2)
21. Rathi, A., **Parmar, D.**, Ganguly, R., Gurjar, B.R., Bhadauria, V. "Exposure Assessment of Particulate Matter during various Construction Activities in Kanpur City, India", *Environmental Monitoring and Assessment*, **Springer** (**under review**) (Q2)

22. Srivastava, A. and Parmar, D. “Development of Water Utility Performance Index using Hybrid Aggregation Technique for Water Supply Systems in India.” *Water Resources Management* (communicated), **Springer (IF: 3.868) (Q1)**

National Journals (01)

1. **Parmar, D. and Sinha, A.K. (1998).** “Problems and growth management in the city of Delhi: Planning for the sustainable development”, *Journal of Indian Building Congress*, April 1998.

Book Chapter (1 nos.)

Parmar D., Keshari A.K. (2020) Monitoring and Processing of Data for Effective Wasteload Allocation Modeling in India. In: Gupta T., Singh S., Rajput P., Agarwal A. (eds) *Measurement, Analysis and Remediation of Environmental Pollutants. Energy, Environment, and Sustainability.* Springer, Singapore. doi.org/10.1007/978-981-15-0540-9_17, 357-373. **(Citation 1)**

B. In Conferences / Symposia

International (41 Nos.)

1. Sharma, S. and Parmar, D. (2020). “Simulating the Impact of Strategic Interventions on Water Quality of River Ganges in Kanpur, India.”, In: (Eds. Adak et al.) *Proceedings of peer reviewed Abstracts of 2nd ASCE India Conference on “Challenges of Resilient and sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020)*, organized by ASCE India Section, Kolkata, March 2-4th 2020, p.26.
2. Bhadauriya, V. and Parmar, D. (2020). “Assessment of PM_{2.5} at Temples and Cremation Ground in Kanpur, India.”, In: (Eds. Adak et al.) *Proceedings of peer reviewed Abstracts of 2nd ASCE India Conference on “Challenges of Resilient and sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020)*, organized by ASCE India Section, Kolkata, March 2-4th 2020, p.159.
3. Rathi, A. and Parmar, D. (2020). “Assessment of PM_{2.5} and PM₁₀ at select construction sites in Kanpur city.” In: (Eds. Adak et al.) *Proceedings of peer reviewed Abstracts of 2nd ASCE India Conference on “Challenges of Resilient and sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020)*, organized by ASCE India Section, Kolkata, March 2-4th 2020, p.157.
4. Shukla, A. and Parmar, D. (2020). “Hydraulic Simulation and Optimization for Effective Design of Water Supply Systems in India.”, In: (Eds. Adak et al.) *Proceedings of peer reviewed Abstracts of 2nd ASCE India Conference on “Challenges of Resilient and sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020)*, organized by ASCE India Section, Kolkata, March 2-4th 2020, p.139.
5. Sharma, A. and Parmar, D. (2020). “Conceptual Framework of Urban River Management Plan for Kanpur city, India.” In: (Eds. Adak et al.) *Proceedings of peer reviewed Abstracts of 2nd ASCE India Conference on “Challenges of Resilient and sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020)*, organized by ASCE India Section, Kolkata, March 2-4th 2020, p.152.
6. Goyal, I. and Parmar, D. (2020). “Simulating the impact of Anthropogenic activities during Kumbh Mela on the water quality of the river Ganges and the adjoining aquifer in Prayagraj, India.”, In: (Eds. Adak et al.) *Proceedings of peer reviewed Abstracts of 2nd ASCE India Conference on “Challenges of Resilient and sustainable*

- Infrastructure Development in Emerging Economies” (CRSIDE2020), organized by ASCE India Section, Kolkata, March 2-4th 2020 (Poster), p.108.
7. Sharma, A. and Parmar, D. (2020). “Techno-economic Evaluation of wastewater reuse in Kanpur city.”, In: (Eds. Kumar and Patle) Proceedings of International Conference on Energy and Environmental Technologies for Sustainable Development (CHEM-CONFLUX-20), Excellent Publishing House, New Delhi Organized by Department of Chemical Engineering, MNNIT, Allahabad, February 14-16th, 2020, p.62, ISBN 9789386238863).
 8. Goyal, I. and Parmar, D. (2020). “Water Quality Modeling of river Ganges in Prayagraj.”, In: Proceedings of International Conference on Energy and Environmental Technologies for Sustainable Development (CHEM-CONFLUX-20), Excellent Publishing House, New Delhi Organized by Department of Chemical Engineering, MNNIT, Allahabad, February 14-16th, 2020, p.62, ISBN 9789386238863).
 9. Shukla, A. and Parmar, D. (2020). “Pipe Optimization of Branch Water Supply Systems using Open Source Software.”, In: Proceedings of International Conference on Energy and Environmental Technologies for Sustainable Development (CHEM-CONFLUX-20), Excellent Publishing House, New Delhi Organized by Department of Chemical Engineering, MNNIT, Allahabad, February 14-16th, 2020, p.62, ISBN 9789386238863).
 10. Sharma, A. and Parmar, D. (2020). “Water budgeting using concept of “Urban River Management Planning” for Kanpur city, India.”, In: Book of Abstracts (Eds. Nagar et al.) - World Environment Summit 2020, organized by Environment and Social Development Association (ESDA), Delhi held at Delhi during January 18-19th 2020, p.225
 11. Shukla, A. and Parmar, D. (2020). “Efficacy of Reverse Osmosis System for drinking water treatment at household level: Need for Introspection.”, In: Book of Abstracts (Eds. Nagar et al.) - World Environment Summit 2020, organized by Environment and Social Development Association (ESDA), Delhi held at Delhi during January 18-19th 2020, p.236.
 12. Shankhwar, S. and **Parmar, D.** (2019). “Occupational Health Risk Assessment by Use of Chalks in Classrooms of Kanpur City, India.”, **accepted for Oral Presentation** in 4th International conference on “Sustainable Energy and Environmental Challenges” (IV SEEC) held during Nov. 27-29th 2019 at CSIR-NEERI, Nagpur, India
 13. Jain, P. K. and **Parmar, D.** (2019). “Multicriteria Decision Making based Benchmarking of Urbanization in Indian States.” **accepted for Oral Presentation** in 4th International conference on “Sustainable Energy and Environmental Challenges” (IV SEEC) held during Nov. 27-29th 2019 at CSIR-NEERI, Nagpur, India
 14. Gani, A. and **Parmar, D.** (2019). Development of Groundwater Quality Index for various Union Territories of India **accepted for Poster Presentation** in 4th International conference on “Sustainable Energy and Environmental Challenges” (IV SEEC) held during Nov. 27-29th 2019 at CSIR-NEERI, Nagpur, India
 15. Kumar, A. **Parmar, D.** and Singh, L.K. (2019). Bacterial Infection and its evaluation through paper currency in Kanpur city, India **accepted for Poster Presentation** in 4th International conference on “Sustainable Energy and Environmental Challenges” (IV SEEC) held during Nov. 27-29th 2019 at CSIR-NEERI, Nagpur, India
 16. Jain, P. K. and **Parmar, D.** (2019). “Benchmarking the Urbanization in Indian States with Focus on North Eastern States and Union Territories.” **Accepted for presentation** in 6th International Conference on Science, Technology & Management (ICSTM-2019) held on July 7th 2019 at Chandigarh (**Abstract**)

17. Gani, A. and **Parmar, D.** (2019). "Comparison of Ground Water Quality Index for Shallow and Deep Aquifers of Uttar Pradesh, India.", **Accepted for presentation in 6th International Conference on Science, Technology & Management (ICSTM-2019)** held on July 7th 2019 at Chandigarh (**Abstract**)
18. Shankhwar, S. and **Parmar, D.** (2019). "Occupational Human Health Risk Assessment by Use of Chalks in Classroom.", **Accepted for presentation in 6th International Conference on Science, Technology & Management (ICSTM-2019)** held on July 7th 2019 at Chandigarh (**Abstract**)
19. Kumar, A. **Parmar, D.** and Singh, L.K. (2019). "Human Health Risk Assessment of Infection through Paper Currency.", **Accepted for presentation in 6th International Conference on Science, Technology & Management (ICSTM-2019)** held on July 7th 2019 at Chandigarh (**Abstract**)
20. Jain, P. K. and **Parmar, D.** (2019). "**Benchmarking of States in India based on Level of Urbanization.**",
21. Kumar, A. **Parmar, D.** and Singh, L.K. (2019). "**Bacterial Infection and its evaluation through Paper Currency in Kanpur City, India.**", *AMICR 2019*.
22. Shankhwar, S. and **Parmar, D.** (2019). "**Health Risk Assessment by Use of Chalks in Classrooms of Kanpur City, India.**", *AMICR 2019*
23. Singh, S. and **Parmar, D.** (2018). "Development and Application of Disjktra's Shortest Path Algorithm for Solid Waste Route Optimization" (Accepted for poster presentation in iEMSS 2018, USA)
24. Singh, V.P. and **Parmar, D.** (2017) "BOD-DO Models for Ganges and Yamuna River, India Using ANN", In: Book of Abstract on "International Conference on modeling of Environmental and Water Resources", ICMEWRS-2017 held during March 24-26th 2017 at HBTU Kanpur, Publisher: Allied Publishers Pvt. Ltd., p.83 (ISBN:978-93-85926-53-2)
25. Gupta, A. and **Parmar, D.** (2017). "Water Quality Modeling for Kanpur Stretch of River Ganges, India.", In: Book of Abstract on "International Conference on modeling of Environmental and Water Resources", ICMEWRS-2017 held during March 24-26th 2017 at HBTU Kanpur, Publisher: Allied Publishers Pvt. Ltd.,p.93 (ISBN:978-93-85926-53-2)
26. Gupta, A. and **Parmar, D.** (2017). "Sensitivity Analysis of Water Quality Parameters for Kanpur Stretch of River Ganges, India", In: Book of Abstract on "International Conference on modeling of Environmental and Water Resources", ICMEWRS-2017 held during March 24-26th 2017 at HBTU Kanpur, Publisher: Allied Publishers Pvt. Ltd.p.95 (ISBN:978-93-85926-53-2)
27. Yadav, D.Y. and **Parmar, D.** (2017). "Performance Evaluation of Sewage Treatment Plants Using Tolerance Based Data Envelope Analysis: A Case of Delhi City, India.", In: Book of Abstract on "International Conference on modeling of Environmental and Water Resources", ICMEWRS-2017 held during March 24-26th 2017 at HBTU Kanpur, Publisher: Allied Publishers Pvt. Ltd.,p 185
28. **Parmar, D.**, Kumar, V., Rathaur, A., Soni, V.K. and Kumar, P. (2017). "Hydrological Investigation of Ganga Sub-Catchment in Kanpur.", In: Book of Abstract on "International Conference on modeling of Environmental and Water Resources",
29. ICMEWRS-2017 held during March 24-26th 2017 at HBTU Kanpur, Publisher: Allied Publishers Pvt. Ltd.,p.193 (ISBN:978-93-85926-53-2)
30. Solanki, M. and **Parmar, D.** (2017). "Strategic Management of E-waste with Specific Reference to Mobile Phones Using Game Theory.", In: Book of Abstract on "International Conference on modeling of Environmental and Water Resources", ICMEWRS-2017 held during March 24-26th 2017 at HBTU Kanpur, p.203 (ISBN:978-93-85926-53-2)
31. **Parmar, D.** and Keshari, A.K.(2012). "Calibration and Validation of QUAL2E model on the Delhi stretch of the river Yamuna, India" In: Book of Abstracts of 2012 International SWAT Conference, July 18-20, 2012, IIT Delhi, New Delhi, 129.

- 31. Parmar, D., Singh, S., Rawat, H., Wal. P., Johari, P. M. and Khitoliya, R.K.** “Regression models for leakage assessment in water distribution systems.” In Proceedings (CD form) of 3 day International Conference on “3rd International Perspective on Current & Future State of Water Resources and Environment.” Organized by EWRI of ASCE and IIT Chennai and held at IIT Chennai during January 5-7th **2010**.
- 32. Parmar, D.** and Keshari, A.K. “Strategic Measures for Water Quality Improvement in Delhi Stretch of River Yamuna, India, In Proceedings (CD form) of 3-day International Conference on “3rd International Perspective on Current & Future State of Water Resources and Environment.” Organized by EWRI of ASCE and IIT Chennai and held at IIT Chennai during January 5-7th **2010**.
- 33. Parmar, D.** and Keshari, A.K. “Sensitivity analysis of water quality for Delhi Stretch of river Yamuna, India, In Proceedings (CD form) of 3-day International Conference on “3rd International Perspective on Current & Future State of Water Resources and Environment.” Organized by EWRI of ASCE and IIT Chennai and held at IIT Chennai during January 5-7th **2010**.
- 34. Parmar, D. L.** (2008). “Leakage Assessment in a Water Distribution System: A Case Study.” International Disaster reduction Conference DAVOS 2008 to be held at **Davos, Switzerland**, August 24-29th, **2008 (Accepted)**.
- 35. Parmar, D. L.** (2008). “Stream aquifer interaction with specific reference to Delhi stretch of river Yamuna.” International Disaster reduction Conference DAVOS 2008 to be held at **Davos, Switzerland**, August 24-29th, **2008 (Accepted for poster presentation)**.
- 36. Parmar, D. L.** and Keshari, A. K. “Systems Approach to Water Quality Management in Delhi Reach of River Yamuna, India”, Proc. of *International Perspective on Environment and Water* (Eds. Singh, U., Datta, B., Panigrahi, B., Sharma, M.), **ASCE**, EWRI-IIT Kanpur, held at **New Delhi**, India, December 18-20th 2006, 24.(attended and presented)
- 37. Parmar, D. L.** and Keshari, A. K. “Multiobjective optimization for water quality management in river system” to be held at **Portland (Oregon), USA**, AIM-2006, USABE from July 9th-12th 2006 (**Abstract accepted**)
- 38. Parmar, D. L.** and Keshari, A. K. “Risk Assessment of Wasteload Allocation for Delhi Reach of River Yamuna, India”, for International Disaster reduction Conference DAVOS 2006 to be held at **Davos, Switzerland**, (**Accepted for Poster Presentation**)
- 39. Parmar, D. L.** and Keshari, A. K. (2005). “Economic Value of Wastewater for Irrigation in India”, Proceeding of 5th International Conference on R & D, vol. I- Water resources, February 15-18th, 2005, pp I49-I57
- 40. Parmar, D. L.,** Kumar, N., and Singh, D. (2003). “Challenges for Sustainable Development in the Next Millennium”, Accepted for Poster presentation: In International Conference on Energy and Environmental technologies for Sustainable Development, Oct.8-10, 2003, MNNIT, Jaipur, India.
- 41. Parmar, D. L.** (2000). ‘Drought – The Indian scenario and Disaster Management by Public Participation’: In Proceedings of International Conference on Construction Industry- Challenges of Sustainable Development, Disaster Management & Environmental Management held at Chandigarh, Nov 18-20, 2000, pp. 572-577.

National (22 Nos.)

1. **Parmar, D. (2017).** “Challenges and problems in Indian Challenges and Problems of Construction Industry: Strategic Framework for Indian Scenario.”, In: Proceedings of National Seminar on held at IE(I), Kanpur local Centre, October 29th 2017 (**Invited Paper**)
2. **Parmar, D. (2017).** “**Modeling of waste management**” In: On day National Workshop on “From waste to profits through reduce, recycle and reuse” held on March 30th 2017 (**Invited Paper**)
3. **Parmar, D. (2015).** “Effective Implementation of Low-Cost Construction Techniques for Housing: Overview and Road Ahead”, In: the Inaugural Ceremony of National Seminar on “Low Cost Housing for Rural and Urban Areas of Uttar Pradesh”, Nov 26th 2015 jointly organized by Technical Education Department, Government of U.P. and Department of Civil Engineering, Harcourt Butler Technological Institute, Kanpur ((**Keynote address during Inaugural Session**))
4. **Parmar, D. (2015).**“Modified Syllabus for Undergraduate Programme in Civil Engineering with focus on Core Subjects”, June 27th 2015, 2 days workshop on curriculum development in civil engineering held during June 27-28, 2015 (**Invited Paper**)
5. **Parmar, D. (2015).** "Reinventing Engineering Education Post IT Party: Should we have a Paradigm Shift to Core? June 8th 2015, TEQIP-II Sponsored Faculty Seminar, Organized by HBTU Kanpur and UP Government, June 8-9, 2015(**Keynote address**)
6. **Parmar, D. (2015).** "Chemical Sciences vis-a-vis Environmental Engineering with Specific Reference to Controlling Environmental Pollution: Issues, Challenges and R&D Directions", April 11th 2015 In National Conference on THE FRONTIERS OF CHEMICAL SCIENCES AND POTENTIAL INTERFACES (FCSPI-2015) Friday-Saturday, 10-11 April, 2015 (**Keynote address**)
7. **Whither Water and Sanitation in Rural Areas: Challenges, Solutions and R & D directions in National workshop on Challenges and Opportunities for management of water supplies in rural areas held at ISM Dhanbad, COMWRA 2015, during Jan 23-24, 2015. (Keynote address)**
8. **Parmar, D. (2014).** “Sustainability of Water and Wastewater Infrastructure: Challenges, Solutions and R & D directions.”, In: Proceedings of National conference on Sustainable Infrastructure Development, held at NITTR Chandigarh during March 13-14th 2014. (**Keynote address**)
9. **Parmar, D.L. (2013).** “Wasteload Allocation as a method of Wastewater Treatment for Pollution Control in Book of Abstract of National Seminar on Advances in Bioprocesses Engineering, Department of Biochemical Engineering and Food Technology, HBTI Kanpur
10. **Parmar, D. L. and Keshari, A.K. (2008).** “River Water Quality Modeling Using Simulation Model.” In: Proc. Of Faculty Development programme on Recent Strategies for Remediation of Environmental Pollution (Eds. D.L. Parmar and Alok Sinha), HBTI Kanpur, April 25-26, 25-36.
11. **Parmar, D. L. and Keshari, A.K. (2008).** “Multiobjective Waste Load Allocation Modeling for a River System.” In: Proc. Of Faculty Development programme on

Recent Strategies For Remediation Of Environmental Pollution (Eds. D.L. Parmar and Alok Sinha), HBTI Kanpur, April 25-26, 37-50.

12. **Parmar, D. L.** (2007). “Water Pollution: Problems, Issues and R&D directions.”(Invited Paper), In: Book of Abstract of WATER YEAR-2007 Sangosthi, held at CSAUAT, Kanpur on May 10th 2007.(Invited Paper)
13. **Parmar, D. L.** and Keshari, A.K. (2005). ‘Multiobjective optimization framework for sustainable development of water resources in Delhi region’, Proceedings of National Workshop cum conference on ‘Emerging technologies for controlling groundwater pollution: Drinking water perspectives’ held at IIT, Delhi on May19-20th , 2005.
14. **Parmar, D. L.** and Keshari, D. L. (2005). “Yamuna nadi ke paripekshya mein jal gunwatta prabhandhan ka vivechanatmak vishleshan”, Proceedings of book of abstract of one day Seminar/Workshop on ‘Rajbhasha hindi mein vaigyanik evam takniki lekhan ko protsahan’ held at IIT Delhi on Decemeber 12th , 2005.
15. **Parmar, D.L.** and Kumar, R. (2004). ‘Upgradation of water supply infrastructure by technological innovations’, Proceeding of National Seminar on ‘Advances in Building Construction and Rehabilitation Technology’, (Ed. Santosh kumar and Rajeev kumar) held at IITK on March, 2-4, 2004, pp 287-291.
16. Keshari, A.K and **Parmar, D. L.** (2004). ‘Use of River water quality modeling with specific reference to QUAL 2E’, Proceeding of Training Manual on Groundwater flow and mass transport modeling’,(Ed. A.L. Ramanathan, M. Thangarajan, and Ram kumar) held at JNU, New Delhi, November 12-December 9th , 2004.
17. **Parmar, D. L.**, Singh, S and Kapoor, N. (2003).‘Advancements in Water Distribution Systems’, Proceeding of National Conference on Advances in Civil Engineering: Perspectives of Developing Countries, Vol.2 (Ed D. Parmar and Pradeep kumar) , 2003
18. **Parmar, D. L.**, Singh, D S, Anupama and Singh, S. (2003). ‘Financial viability of BOT project’, Proceeding of National Conference on Advances in Civil Engineering: Perspectives of Developing Countries, Vol.2 (Ed D. Parmar and Pradeep kumar), 2003
19. Nigam, A. K., Shukla, A. , Dixit, O., and **Parmar, D. L.** (2003). ‘Groundwater quality in Jhansi region’, Proceeding of National Conference on Advances in Civil Engineering: Perspectives of Developing Countries Vol.2 (Ed D. Parmar and Pradeep kumar), 2003
20. **Parmar, D. L.** (2003). “Adequacy and rehabilitation of water distribution system: A case study” In: National Seminar on Urban Infrastructure Development held at June 14-16th 2002 (Abstract accepted).
21. **Parmar, D. L.** and Sandeep Singh (2002). ‘Groundwater Vulnerability: Management using Remote Sensing and Geographical Information System, Presented in National Seminar on Environmental Management Systems in Chemical and Allied Industries, IE (I), HBTI, Kanpur, Oct 4-5, 2002.(Abstract published)
22. **Parmar, D. L.** (2000), ‘Hydrology as a Discipline: Past, Present and Future ahead for Sustainable Development’, accepted for Publication in National Conference on Hydraulics and Water Resources, HYDRO-2000, held at REC, Kurukshetra on October 6-8th, 2000 (Abstract published)

Annexure 2: Research Guidance (Ph.D, M.Tech, B.Tech)

Details of Thesis Supervised (PhD)- 05 (ongoing)

S.No	Name of student	Thesis title	Year	Co-Supervisors, if any
1	Suddha Sippi	River water quality management	Ongoing (to be submitted by August 2022)	-
2	Akanksha Shrivastava	Performance evaluation of water supply systems	Ongoing (to be submitted October 2022)	-
3	Arpita Anand	Household water consumption: Assessment, Determinants and Quality	Ongoing (to submit by December 2022)	Prof. Tarun Gupta, IIT Kanpur
4	Harshit Verma	Air quality assessment in different transport modes and associated human health risk exposure	Ongoing	Dr. Rajiv Ganguly, HBTU Kanpur
5	Gagan Agarwal	Not yet decided	Ongoing	-

Details of Thesis Supervised (M. Tech)

(44 completed) plus 04 (ongoing)

S.No	Name of student	Thesis title	Year
1	Akanksha Gupta	A study of kinetic coefficient using modeling for Kanpur stretch of river Ganga	2009
2	Arti Gupta.	Water Quality Modeling for Kanpur Stretch of River Ganga	2009
3	Amrita Singh	Performance evaluation of Common effluent treatment plant	2010
4	Ranjana Katiyar	Performance evaluation of tannery waste effluent for assessment of Cleaner production technologies	2010
5	Sanjay Kumar Mishra	Comparative evaluation using various seismic analysis methods for design and analysis of framed structures with specific reference to geometry and earthquake zones	2010
6	Sunil Kumar Singh	Analysis and design of long span bow string girder bridges for highways.	2012
7	Neha Sharma	Regression models for modeling of water quality in the river Yamuna	2012

8	Radha Porwal	Principal Component Analysis and Discriminant Analysis for Water Quality in River Ganga at Kanpur	2013
9	Akanksha Rastogi	Quantification and Assessment of green house gases from wastewater treatment plants	2013
10	Vinap Pratap Singh	River water quality simulation using Artificial Neural network	2013
11	Satendra Kumar	Performance evaluation of an UASB based sewage treatment plant	2014
12	Ram Nath	Statistical modeling of water quality in river Yamuna	2014
13	Kavya Singh	Solid waste management using Contingent valuation method	2014
14	Brajesh Singh	“Willingness to Pay Using Multiple Bounded Discrete Choice (MBDC) Approach for Water Services in Kanpur”,	2014
15	Durgvijay Yadav	Performance evaluation of wastewater treatment plants using Data envelope analysis	2014
16	Manish Rai	Performance evaluation of Incinerators using data envelope analysis	2014
17	Nisheeth Mehrotra	Life cycle assessment for rain water harvesting in Kanpur city	2014
18	Gulab Singh	Development of shortest path algorithm (Dijkstra’s algorithm) for solid waste management	2014
19	Venkatesh Prakash	Weight of evidence method for contaminant source identification along urban centres of river Yamuna	2014
20	Abhishek Bharti	Modeling of chlorine decay in water distribution system	2014
21	Ankit Gupta	Risk Assessment of medical waste using the Fault Tree Analysis	2015
22	Saurabh Dubey	Rehabilitation of Water Distribution System	2015
23	Sant Kumar	Feasibility of Pump as Turbine (PAT) technology in water distribution system.	2015
24	Megha Solanki	Strategic Management of e-waste with focus on cell phones using Game Theory	2016
25	Preeti Kashyap	Development of Air Quality Index for Indian Conditions	2016
26	Arumita	Statistical analysis of household water consumption	2017
27	Rahul Yadav	River water quality modeling using QUAL2E	2017
28	Sachin Jain	Waste Load Allocation Model Using QUAL2E and GA	2017
29	Ravi Pratap Singh	Bias minimization using Kalman filter for improved air quality forecasting	2017

30	Satyam Tiwari	Leakage analysis in water distribution systems	2017
31	Krishna Kumar	Modeling of air quality and consequent smog in Delhi during winter	2019
32	Deoki nandan	Air quality modeling and associated human health risk assessment in two urban centers of Uttar Pradesh, India	2019
33	Abdul Gani	Ground water quality index	2019
34	Punit Kumar Jain	Benchmarking for sustainable urbanization of Indian cities and states	2019
35	Shiva Shankhwar	Risk assessment by use of chalk in Classrooms	2019
36	Atul Kumar	Human health risk assessment of infection through currency notes	2019
37	Archana Sharma	Conceptual framework of Urban River Management Plan for Kanpur City	2020
38	Ishita Goyal	Water quality simulation of river ganga in Allahabad during Kumbh congregation	2020
39	Shubhani Sharma	Simulating the impact of strategic interventions on water quality of river Ganges in Kanpur stretch	2020
40	Abhinav Rathi	Assessment of PM 2.5 and PM 10 during various Construction with associated health risk in Kanpur city, India	2020
41	Vishal Bhadauria	Assessment of PM 2.5 for religious sites along with associated health risk in Kanpur city, India	2020
42	Avnish Shukla	Hydraulic Simulation and Optimization of Branched Water Supply Systems	2020
43	Abhishek Kumar Tripathi	Development of Water Quality Indices for Indian Rivers	2021
44	Niteesh Kumar Mishra	Water Quality Modeling using Machine Learning Techniques	2021
45	Shruti Dwivedi	Statistical analysis and Impact of PM2.5 and other meteorological parameters on COVID19 Mortality	Ongoing
46	Rituraj Singh	Development of Air quality indices for Lucknow using hybrid aggregation technique	Ongoing
47	Manas Dang	Logistic regression and analysis of variance for water supply services in Kanpur	Ongoing
48	Saurabh Rao	Effect of private and public supply on household water consumption	Ongoing

Guidance of B. Tech Projects (28 completed)

S.No.	Project Title	Year
1	Adequacy and rehabilitation of water distribution system	2000-01
2	Rainfall runoff modeling and frequency analysis of Kanpur region	2001-02
3	Leakage analysis in water distribution systems	2002-03
4	Socio economic analysis for adoption of water and wastewater disposal methods in developing countries	2006-07
5	Modeling of leakage in water distribution systems	2007-08
6	Climate change and its impact on runoff in river Ganges at Kanpur	2008-09
7	Financial viability and risk identification of a Flyover project under BOT Scheme	2008-09
8	A study of Chromium (VI) removal by phytoremediation and design of a water hyacinth pond	2008-09
9	Simulation and rehabilitation of a water distribution systems	2009-10
10	Water-supply, sanitation and other building utilities in multistoried buildings of Kanpur city for better utility management	2009-10
11	Impact of watershed development programs on ground water and surface water recharge using modeling techniques	2009-10
12	Identification of Landfill site in Kanpur using Delphi Technique	2010-11
13	Hydrological Investigation for Kanpur sub-catchment	2010-11
14	Computer based Planning and Design of water and wastewater infrastructure planning for a colony in Kanpur city	2011-12
15	Assessment and quantification of potential for rainwater harvesting and decentralized wastewater treatment for multistoried buildings of Kanpur city	2011-12
16	Development of Optimal solid waste management model for Kanpur city	2012-13
17	Development of a hybrid water purification method using zeolites and filter media	2013-14
18	Hydrological Investigation of Ganga catchment at Kanpur	2015
19	Development of a software for designing storm water drains and sewerage system	2015
20	Artificial aeration for pollution control in rivers	2016
21	Partial replacement of concrete using inverter battery waste	2016

22	Modeling of fog during winter season in north India	2017
23	A study of ventilation, noise level and associated occupational health risk assessment in temples of Uttar Pradesh	2018
24	Compliance of Vehicular Emission norms and Occupational Health Risk Assessment at Petrol Pumps in Kanpur	2018
25	Assessment of household water consumption and waste (unaccounted) in unmetered, intermittent water supply system of Kanpur	2019
26	Quantification of Climate change in terms of live storage of reservoirs in India	2019
27	Grey Water Generation in Household: Assessment, Determinants and Reuse potential	2020
28	Household consumption pattern in Indian cities	2021
29	Efficacy of facemarks and associated human health exposure assessment	Ongoing
Total		28 nos.

Annexure 3

Details of Main Consultancy projects handled during last 7-8 years

Name of Work	Funded by (Organization)	Value of work	Co-Investigator, if any.
Design and drawing of Sewage Pumping station and sewage treatment plant for Panki Ratanpur Colony	Kanpur Development Authority	191012/-	Dr. Sunil Kumar 25-03-2012 to 01-03-2013
Soil Investigation for bearing capacity estimation at the construction site of proposed 8 nos. OHT in Kannauj district	UPJN Kannauj	225844	19-01-2013 to 17-05-2013
Design (including survey, hydraulic and structural) of sewerage network and sewage treatment plant and quantity estimation for Nirala Nagar Residential Scheme, Sector 1 and 2 adjoining Lucknow-Kanpur Bypass	Unnao Development Authority, Unnao	Rs.3,25,844/- (On going)	03-04-2013 to 08-02-2014
Geotechnical Investigation at site various locations under Shatabdi Nagar housing scheme of KDA	KDA	5,28,092	14-10-14 to 18-11-2014
Soil Investigation for bearing capacity estimation at 25 sites in Kannauj district, UP		4,38,204/-	26-11-2014 to 16-01-2015
Geotechnical Investigation at various locations of Lohia Botanical Garden of KDA	KDA	3,37,080/-	09-02-2015 to 02-07-2015
Geotechnical Investigation at site various locations under Jawahar Puram housing scheme of KDA	KDA	179776/-	15-04-2015 to 19-06-2015
Vetting of DPRs of Jhansi Smart City Limited	Jhansi Smart City Limited	56 lacs	Yes (6 Investigators) 01-01-2019 to 31-03-2020

ANNEXURE 4 (Short term courses/training programmes/ Conferences attended) – 34 nos.

S. No	Programme	Duration	Organized by
1.	Earthquake resistant Design of buildings (STP)	June 24-July 5 th 1996.	Delhi College of Engineering, Delhi
2.	Challenges in the management of water resources and environmental in the next millennium: Need for Inter-Institute (Workshop).	October 8-9, 1998	Delhi College of Engineering, Delhi
3.	Geo-informatics in Resource evaluation and Management (STP)	December 7 th -11 th 1998.	IIT Kanpur
4.	National Seminar on Environmental Management Systems in Chemical and Allied Industries	Oct 4-5, 2002	Institution of Engineers, Kanpur local Centre
5.	National Conference on Advances in Civil Engineering: Perspectives of Developing Countries (organized as well)	February 15-16 th 2003	HBTI Kanpur
6.	Ground Water Quality Management (STP)	May 18-21 st 2004.	Central Board of Irrigation and Power, New Delhi
7.	Water Quality Monitoring and Modeling (Workshop/STP)	August 16-17 th , 2004	National Institute of Hydrology, Roorkee
8.	Advances in groundwater research (STP)	January 17-21 st 2005	IIT Delhi
9.	Genetic algorithms for engineering optimization (STP)	July 20 th -22 nd 2005	IIT Kanpur
10.	National Workshop cum conference on 'Emerging technologies for controlling groundwater pollution: Drinking water perspectives'	May 19-20 th 2005	IIT Delhi
11.	Seminar/Workshop on 'Rajbhasha hindi mein vaigyanik evam takniki lekhan ko protsahan'	December 12 th 2005	IIT Delhi
12.	Indo Mexican workshop on Water Management in Metropolis	October 30-Nov 1 st 2006	IIT Delhi
13.	International Conference on "Perspective of Environment and Water in Developing Countries"	December 18-20 th 2006	IIT Kanpur and EWRI, ASCE, USA held in New Delhi
14.	One day Seminar on "WATER YEAR-2007"	May 10 th 2007	Chandra Shekhar Azad Agricultural University, Kanpur

15.	Faculty Development programme on “Recent Strategies for Remediation of Environmental Pollution” (STP) (organized as well)	April 25-26, 2008	HBTI Kanpur
16.	Faculty Development Programme on “Disaster Management” (STP) (organized as well)	March 16-21, 2009	HBTI Kanpur
17.	One day workshop on AICTE Approval process for the year 2010-11.	May 2009	GCTI Kanpur
18.	3 day workshop on “Environmental Regulations” held at Little Chef Hotel in Kanpur	July 27-29 th 2009	CPCB, WWW, SPCB
19.	Optimization Techniques for Engineers (STP)	March 23 rd to 28 th 2010	HBTI Kanpur
20.	3 rd International Perspective on “Current & Future State of Water Resources and Environment”	January 5-6 th 2010	IIT Chennai and EWRI of ASCE, USA held at IIT Chennai
21.	Workshop on SWOT Analysis	March 4 th 2010	State Project Facilitation Unit, Lucknow (TEQIP of World Bank)
22.	One day Workshop on “Uttar Pradesh Groundwater Conservation, Protection and development (Management, Control and Regulation Bill 2010)	September 14 th 2010	State Project Facilitation Unit, Lucknow (TEQIP of World Bank)
23.	One day workshop on “Preparation of Action Plan for Climate Change for the state of Uttar Pradesh	October 12 th 2010	Department of Environmental, UP Govt., Lucknow
24.	Workshop on converting 3 year Diploma to semester system and preparation of lab manual	April 6 th 2011	Institute of Research, Development and Training, Kanpur
25.	Brainstorming session on preparation of “Technology Vision 2035” for Central Zone held at IT BHU, Varanasi on May 20 th 2011.	May 20 th 2011	IT BHU, Varanasi
26.	One day workshop on AICTE Approval Process for the year 2012-13.	October 1 st 2011	CSJM University, Kanpur
27.	3 day International Conference on SWAT Applications	July 18-20 th 2012	IIT Delhi
28.	5 day training on “Management Capacity Enhancement Programme”	October 21-25, 2013	IIM Lucknow (Noida Campus)
29.	Improved decision-making using Optimization	Jan 24-26 th 2016	IIT Bombay

30.	Moment analysis of subsurface systems	March 20-24 th 2019	IIT Kanpur
31.	Active learning	June 11-15 th 2019	IIT Kanpur
32.	Hydraulic simulation and optimization of water distribution systems	Dec 13-14 th 2019	IIT Mumbai
33.	Webinar on “Environment and COVID 19	June 13 th 2020	SoIE, New Delhi
34.	Webinar on “Air quality in Built Environment”	June 20 th 2020	SoIE, New Delhi

Annexure 5: Seminar Conference Organized (7 nos.)

- 1. Co-Convener (Jointly organized by BIET Jhansi, HBTI Kanpur and AITH Kanpur)**
Faculty Development Programme on “Water Resources and Environmental Issues.” held during November 27-28, 2007, at BIET Jhansi.
- 2. Convener**
Faculty Development Programme on “Recent Strategies for Remediation of Environmental Pollution.” held at HBTI Kanpur, during April 25-26, 2008.
- 3. Co-Chairman**
Faculty Development Programme on “Disaster Management and Mitigation” at HBTI Kanpur during March 17-21st 2009.
- 4. Convener**
Half day workshop on “Ground Water Management” organized by HBTI Kanpur on June 10th, 2009.
5. Cordinator, STTP on “Construction and Maintenance of rural roads, October 25-27th 2014
6. Finishing School, April 7-12th 2014
7. International Conference on “Modeling of Environmental and Water Resources Systems” during March 24-26th 2017 (sponsored by TEQIP-II)

Annexure 6: Invited lectures delivered at Short term courses/Training programme etc.(39 Nos.)

S. No	Title of Lecture/Academic Session	Title of STTP/STC/FDP/Seminar etc	Organized by
1.	Design of water supply systems	In Quality improvement STC for Polytechnique teachers on Water supply and teachers during 25-09-2000 held at IRDT Kanpur	IRDT Kanpur.
2.	River water quality modeling	Water Day, March 2007, CSA Kanpur	The Institution of Engineers (India), Kanpur
3.	“Water Pollution: Modeling and Control” on	February 26 th 2007, at a Faculty Development Programme, on “Water Pollution”	IRDT Kanpur.
4.	Mathematical modeling of engineering systems: An Overview.”	In a Short term course held at on June 2 nd 2008 in MED, HBTI Kanpur	MED, HBTI Kanpur
5.	Modeling of water resources and environmental systems.	In a Faculty development Programme, jointly organized by BIET Jhansi, HBTI Kanpur and AITH Kanpur on November 27-28, 2007.	BIET Jhansi.
6.	“Whither Engineering Education In India: Need For Revival.”	In: One day Workshop on Pedagogy held at HBTI Kanpur on February 24 th 2008.	HBTI Kanpur
7.	“River Water Quality Modeling Using Simulation Model.”	In a Faculty Development programme on “Recent Strategies for Remediation Of Environmental Pollution.” held at HBTI Kanpur, April 25-26.	HBTI Kanpur,
8.	“Multiobjective Waste Load Allocation modeling for River System.”	In: Faculty Development programme on “Recent Strategies for Remediation of Environmental Pollution.” held at HBTI Kanpur, April 25-26.	HBTI Kanpur,
9.	“Linked Simulation-Optimization models for River Water Quality Management”	Water Quality and its Management, New Delhi, July 9 th 2008.	National Institute of Hydrology, Roorkee and CSMRS New Delhi
10.	“Disasters: An Overview and Control.”	In: One week workshop on Disaster Management and Mitigation.” held at HBTI Kanpur from March 16-21 st 2009.	HBTI Kanpur,

11.	“Water Disasters: Origin, Effects and Control”	In: One week workshop on Disaster Management and Mitigation.” held at HBTI Kanpur from March 16-21 st 2009.	HBTI Kanpur,
12.	“Linked Simulation-Optimization Modeling.”	In: STTP on Optimization Techniques for engineers.” held at Chemical engineering Department, HBTI Kanpur, March 23-28, 2009.	HBTI Kanpur,
13.	“Modeling of Leakage in Water Distribution System”	Delivered in NIRMAAN 2009, the Technical Festival of Department of Civil Engineering, HBTI Kanpur held during April 6-7 th 2009.	HBTI Kanpur,
14.	Groundwater: Problem, remediation and Future R & D directions”	On the occasion of Groundwater day on June 10 th 2009 held at HBTI Kanpur.	HBTI Kanpur,
15.	“Overview and modeling of wastewater treatment”	On September 8 th 2009 during a STC on Recent Advances in Industrial Wastewater Treatment organized by IRDT Kanpur.	IRDT Kanpur.
16.	“Climate change and its implication on water resources”	By The Institution of Engineers (India), Kanpur local centre on April 29 th 2011.	The Institution of Engineers (India), Kanpur
17.	“Rural Road Drainage”	in a STTP (Phase-I) on “Construction and Maintenance of Rural Roads” organized by Civil Engineering Department, HBTI Kanpur for RES Engineers, UP during August 25-27 th 2011.	HBTI Kanpur,
18.	“Rural Road Drainage”	In a STTP (Phase-II) on Construction and Maintenance of Rural Roads” organized by Civil Engineering Department, HBTI Kanpur for RES Engineers, UP during september 19-21, 2011 2011.	HBTI Kanpur,
19.	Modeling of Engineering Systems: Overview, Application sand Issues	P.N. Tandon Memorial Lecture Series on Modeliing and Computing, March 2012	HBTI Kanpur
20.	Challenges and Sustainability of Fresh Water Resources: An International Perspective	International Water day, March 22 nd 2013	Institution of Engineers (I), Kanpur local centre
21.	“Rural Road Drainage”	in a STTP (Phase-I) on “Construction and Maintenance	HBTI Kanpur

		of Rural Roads” organized by Civil Engineering Department, HBTI Kanpur for RES Engineers, UP during July 19-August 1 st 2013	
22.	“Rural Road Drainage”	in a STTP (Phase-I) on “Construction and Maintenance of Rural Roads” organized by Civil Engineering Department, HBTI Kanpur for RES Engineers, UP during October 25-27 th 2013	HBTI Kanpur
23.	Delivered a lecture on “Rural Road Drainage”	in a STTP (Phase-I) on “Construction and Maintenance of Rural Roads” organized by Civil Engineering Department, HBTI Kanpur for RES Engineers, UP during Feb 27-March 1 st 2014	HBTI Kanpur
24.	Shortage of Quality Faculty in Engineering Institutions	FDP In MED, HBTI Kanpur, March 7-12 th 2014	MED, HBTI Kanpur
25.	Road Drainage and Rainwater Harvesting in Rural Areas	Short Term Training programme for Engineers of Rural Engg. Deptt., U.P. On Construction & Maintenance of Cement Concrete Structures at 10.00 a.m. on 27.10.2014	
26.	Road Drainage and Rainwater Harvesting in Rural Areas, September 15 th 2015	RED Training programme	CED, HBTU Kanpur
27.	Hydropower Project: Engineering Surveys and Design	in STC on “Power Generation Technologies: Present Status and Future Directions at IIT Kanpur” on Dec 4 th 2014, (PBCEC, IIT Kanpur, December 1-5, 2014)	IIT Kanpur
28.	Whither Water and Sanitation in Rural Areas: Challenges, Solutions and R & D directions.	January 23 rd 2015	ISM Dhanbad
29.	"Chemical Sciences vis-a-vis Environmental Engineering with Specific Reference to Controlling Environmental Pollution: Issues, Challenges and R&D	April 2015	Central University, Gandhinagar, Gujarat

	Directions"		
30.	"Reinventing Engineering Education Post IT Party: Should we have a Paradigm Shift to Core? On June 8 th 2015 during Faculty Interaction Seminar at HBTU Kanpur	June 8 th 2015	
31.	Modified Syllabus for Undergraduate Programme in Civil Engineering with focus on Core Subjects	June 27 th 2015 Curriculum development workshop	BIET Jhansi
32.	Modeling of Bioprocess systems with specific reference to wastewater treatment: Challenges, Myths and R&D Directions	Jan 27 th 2017 or Feb 10 th 2017	BEFT Department, HBTU Kanpur
33.	National Workshop on "From waste to profits through reduce, recycle and reuse"	March 30 th 2017 Whither "Waste to Profit through 3Rs" in India	CED, HBTU Kanpur
34.	"Demystifying the challenges of water scarcity and water pollution"	March 22 nd 2018 at IE(I), Kanpur Local Centre, on the occasion of "World Water Day".	IE(I), Kanpur Local Centre
35.	Quantifying Sustainability Criteria for Civil Engineering Infrastructure with focus on Water and Wastewater	June 6 th in a FDP on " <i>Recent Trends in Civil and Environmental Engineering for Sustainable Development</i> " held during June 4-9 th 2018	PSIT Kanpur
36.	Modeling of Real Life Engineering Systems: Need to bridge the gap between Mathematician's and Engineer's Approach, October 10 th 2018,		Maths Department, HBTU Kanpur
37.	Coping with the Burgeoning Problem of Water and Sanitation: Challenges and Solutions	Quality Month, SAF Kanpur	Nov 28 th 2018
38.	Machine Intelligence: Can Computers	September 27 th 2019, in TEQIP-III sponsored Two	EED, HBTU

	Overcome Humans for Real Life Process based Environmental Modelling?	Weeks Short Term Course on Control & Machine Intelligence 16-28 th September, 2019 at Department of Electrical Engineering, HBTU Kanpur, organised under twinning arrangement with Thiagarajar College of Engineering, Madurai, Tamilnadu	Kanpur
39.	Whither the Intelligent Control in Environmental and Water Resources Infrastructure: An Indian Perspective	One week FDP on “Intelligent Control and its Applications” held during August 16-20 th 2021	EED, HBTU Kanpur

ANNEXURE 7
Administrative duties performed during last 28 years of service in teaching.

In addition to the administrative duties mentioned earlier, I have been involved with 69 (approx.) committees dealing with various issues in the Institute.

S.No.	Duties	Post held.
1	Developed the Performa, pattern and question paper for Diagnostic test in consultation with the Dean (AA).	Assistant Dean
2	Developed the Performa and pattern of Course Audit format in consultation with Dean (AA).	Assistant Dean
3.	Planned and conducted the PhD Entrance test in HBTI Kanpur (1 st time ever in HBTI Kanpur)	Assistant Dean
4	Planned and conducted the diagnostic test and prepared the report for three sessions i.e. 2008-09, 2009-10, 2011-12; 2012-13.	Assistant Dean
5	Devised and prepared (including editing) of Information Brochure (for three academic sessions-2007-08; 2009-10; 2010-11; 2011-12; 2012-13)	Assistant Dean
6	Along with the Dean (AA), coordinated the agenda for two academic council meetings.	Assistant Dean
7	Prepared major portion of the institute’s proposal for grant from World Bank under TEQIP Project (I)	Individual
8	Committee for framing of Strategic Plan of HBTI for 2009-14.	Member
9	Committee for printing of Information Brochure 2008-09; 2009-10, 2010-11, 2011-12	Member
10	Committee for purchase of medals for toppers of various branches.	Member
11	Committee for academic calendar preparation, 2008-09, 2009-10	Member
12	Committee for framing of feasibility and guidelines (in terms of rules etc.) for Summer training.	Member

13	Literary sub council	Member
14	Faculty advisor for B.Tech students	Advisor
15	Anti- ragging Squad (for 9 years)	Member
16	Inquiry related to newly constructed cycle stand.	Member
17	Inquiry related to complaint from Computer science students of the institute.	Member
18	Inquiry related to 3 B. Tech and 1 M.Tech student.	Member
19	UPTU Inspection committee for extension of affiliation of colleges.	Member
20	UPTU Counselling 2008-09; 2008-10	Member
21	SEE-2009, 2010, HBTI Kanpur	Nodal officer
22	Facilitated the organization of workshop on Excellence model (Organized by VC, UPTU)	-
23	Selection committee for various central and state government organizations.	Member
24	PG Coordinator of Civil Engineering Department	-
25	B.Tech project co-ordinator of Civil Engineering Department	-
26	Inquiry related to work related to beautification of approach road in front of main building of the institute.	Convener
27	Committee for creation/readjustment of faculty positions as per AICTE norms	Member
28	Committee for exploring the possibility of seeking banking facilities from banks other than Central Bank of India	Member
29	Inquiry into alleged complaint against some staff member in the Civil Engineering Department	Member
30	Committee for admission of Government nominee 2009-10, 2011-12	Member
31	Committee for carrying out branch change of HBTI Kanpur 2 nd year students and Dr. BRAIET, Bijnor college, 2011-12	Member
32	Committee to look into an extra admission in 2 nd year Plastic Technology branch, 2011-12.	Member
33	Committee for house building advance	Member
34	Committee for extension of approval with AICTE for the year 2013-14	Convener/Chairman
35	Committee for extension of approval with AICTE for the year 2013-14 (Dr. BRACEIT, Bijore)	Member Secretary
36	Committee to inquire into the construction of roof of CSE Department	Convener
37	Statutes committee	Member
38	Committee for fee revision (December 2016)	Convener
39	Committee for HBA (2017)	Member
40	Arranging hotel/guest house facilities for experts- 2017	Member
41	Member- Committee for assessing contract condition of outsourced staff in the university	Member
42	Ordinance committee	Chairman (as Dean AA) for all programmes
43	Convener and Chairman, Ordinance committee	B. Tech programme
43	Member- to decide about architecture of HBTU Kanpur's website	Member
44	Committee for Academic Audit (May 2018)	Member

45	Committee for framing guidelines of summer internships to outside students (June 2018)	Member
46	Monitoring Committee – Lecture- hall complex, auditorium, incubation hub- 2018	
47	Committee for exploring biometric system in academic session of the University	Member
48	Committee for submission of NIRF Ranking Form	Convener
49	Strengthening of Industrial collaboration of the university	Member
50	Committee for creation of Student welfare fund /policy making – 2018	Member
51	Inquiry committee of a staff	Member
52	Inquiry Committee of a class-III staff	Inquiry Officer (one member)
53	Inquiry committee of a staff	Convener
54	EMF-TEQIP-III, Committee on water harvesting	Convener
55	Information Brochure 2020	Convener
56	Branch change 2020	Member
57	Inquiry committee of a staff	Convener
58	Statutes Committee- May 2021	Member
59	Recruitment Rules for Faculty Committee	Member
60	Information Brochure 2021	Convener
61	Committee for preparation, checking and testing of software/ERP for development of Online Application form for Faculty Recruitment	Member
62	Committee for nomination of best teacher award on Teachers-day 2021	Member
63	Branch change 2020	Member
64	Information Brochure 2022	Convener
65	Committee for deciding retirement of staff above 50 yrs age	Member
66	Committee for deciding facilities to staff of the university	Member
67	Committee to investigate a complaint against a staff of the university	Member
68	Committee to look into the grant of PhD increment to a faculty of the university	Member
69	Committee for preparation of UGC-12B Proposal and follow up visit of expert committee	Member