

BIO-DATA

Name & Designation : Dr. (Mrs) Rekha Bali, Professor

Date of Birth : 26th June 1964

University : Harcourt Butler Technical University Kanpur

Academic Qualification :

EXAM PASSED	YEAR	UNIV.INST.	% OF MARKS	SUBJECT
High School	1979	U.P. Board	69.0%	Sci., Math., Bio., Hindi, English
Intermediate	1981	U.P. Board	67.4%	Chemistry, Math., Physics, Hindi, English
B.Sc.	1983	Kanpur University	68.0%	Math., Physics, Electronics
M.Sc.	1985	Kanpur University	68.4%	Mathematics
Ph.D.	1988	H.B.T.I. Kanpur		Mathematics

Thesis Title : Analytical study of flow and diffusion in modelled physiological systems

Supervisor : Prof. P.N. Tandon

Service Records:

Sl. No.	Name of Employer	Post Held	Period		Pay Band / Pay Scale and AGP / Basic Pay
			From	To	
1.	HBTI Kanpur, in Project Sponsored by D.S.T ,New Delhi	J.R.F	6.1.86	26.11.87	Rs. 800(fixed)+ H.R.A
2.	HBTI Kanpur, in Project Sponsored by D.S.T ,New Delhi	Scientist	26.11.87	7.4.89	Rs. 2200 – 4000/-
3.	HBTI Kanpur	Lecturer	7.4.89	6.4.94	Rs. 700 - 1600/-

4.	HBTI Kanpur	Sr. lecturer	7.4.94	6.4.99	Rs. 3000 – 5000/-
5.	HBTI Kanpur	Assistant Professor (Redesignated as Associate Professor from 1.1.06)	7.4.99	7.4.07	Rs. 12000-18300/-
6.	HBTI Kanpur	Professor	7.4.07	Continuing	Rs.37400- 67000/-

Research Guidance

S. No.	Level	No. of students enrolled	Thesis Submitted / in Progress	Degree award
1.	Ph.D.	1	Awarded	Awarded (2001)
2.	Ph.D.	1	Awarded	Awarded (2012)
3.	Ph.D.	1	Awarded	Awarded (2014)
4.	Ph.D.	1	Awarded	Awarded (2017)
5.	Ph.D.	1	Awarded	Awarded (2018)
6.	Ph.D.	1	In Progress	Registered (2020)
7.	Ph.D.	1	In Progress	Registered(2021)

Research Projects:

Sl. No.	Title of the Project	Name of the Sponsoring Agency	Amount (Rs.)	Tenure of the Project	Completed / Under Progress	Name and Address of Principal Investigator/ Co-investigator
1.	Some Problems on heat and mass transfer in Bio System	Sikander Tanner Ltd. Kanpur	20,000/-	Two Years	Completed	Dr. Rekha Bali, HBTI Kanpur
2.	A study of Flow and Diffusion problem in human system	Friends Equipments, Kanpur	20,000/-	Two Years	Completed	Dr. Rekha Bali, HBTI Kanpur
3.	Mathematical Modelling of the microcirculation	UGC , New Delhi	4,82,800	Three Years	Completed	Dr. Rekha Bali, HBTI Kanpur

Research Publications

A. Publications in Journals

1. Tandan, P.N. , Agarwal R., Microstructural effects on blood flow through tube with small developing stenosis, J. of the Institution of Engr. India, Vol. 66, (1986).
2. Tandan, P.N. , Agarwal R., Flow of viscous fluid in a contracting or expanding pipe, A simple model for human bronchial tube, GANITA, Vol. 37(2) (1986). 74-85.
3. Tandon, P.N., Nirmala, P., Pal T.S., Agarwal, Rekha, Rheological study of Lubricant gelling in Synovial joints during articulation, Int. J. App. Math Modelling, Vol. 12 (1988) 72-77
4. Tandan, P.N. , Agarwal R., A study of nutritional transport in synovial joints, Int. J. of Computer and Mathematics with applications, Vol. 27 (1989) 1131-1141.
5. Tandon, P.N., Bali, Rekha, A Study on temperature regulation in synovial joint, Tribology Letters, USA, 209-213.
6. Bali, Rekha, Shukla , A.K., Rheological effect of synovial fluid on nutritional transport, Tribology letters, USA, Vol.9 , No.3-4 (2000) 233-239.
7. Bali, Rekha, Shukla , A.K., A biphasic model for hip joints replacement, Tribology letters, USA, Vol. No.13 (3), (2002) 187-195.
8. Bali, Rekha, Shukla , A.K., A simple model for temp. regulation in synovial joint, Ultra Science, Vol. No.15, No.1, (2003) 109-116.
9. Tandon, P.N. , Chaurasia, amita, Bali, Rekha, Shukla, A.K., A model for Knee joint articulation, Ultra Science, Vol. 15 (3) M (2003).
10. Tandon, P.N. , Bali, Rekha, Siddiqui, S.U, Shukla, A.K. , A study of Nutritional transport in pulsatile Blood flows through time dependent, stenotic tube, Ultra Science , Vol. 16 (2) M.(2004) 199-204.
11. Bali, Rekha, shukla, A.K., Sharma, S.K., A Non linear model for lubrication in synovial joints, Ultra Science , Vol. 16 (3) M.(2004) 333-342.
12. Bali, R. , Sharma, S.K., Effect of Magnetic field in lubrication of synovial joints, Tribology letters, USA, (2005) 281-287.
13. Bali, Rekha, Dubey, Shraddhya, Effect of Magnetic field on blood flow through capillary, Ultra Science, Vol. 19 (2) M.(2007) 319-326
14. Bali, Rekha, Awasthi, Usha, Effect of Magnetic field on Resistance to blood flow through in stenotic artery, Applied Mathematics and computation, USA, Vol.188 (2007) 1635-1641.
15. Bali, Rekha, Mishra, Swati, Dubey, Shraddhya, A Mathematical model for red cell motion in narrow capillary surrounded by tissue, Applied Mathematics and computation, USA, Vol.196 (2008) 193-199.

16. Bali, Rekha, Awasthi Usha. A Mathematical model for oxygen transport in capillary tissue Exchange system in the presence of Magnetic field, International Journal of Physical Science, Vol.20 (3) (2008) 593-604.
17. Bali, Rekha, Mishra, swati, Tandon, P.N., Effect of Glycocalyx on Red blood cell motion in capillary surrounded by Tissue, International Journal (AAM), USA, Vol. 4 No. 1 134-148 (2009).
18. Bali, Rekha, Sharma, S.K., Viscoelastic effects on the unsteady convective diffusion in a synovial fluid of human joint, International Journal of Theoretical and Applied Mechanics, Vol. 4 No. 2 119-134 (2009).
19. Bali, R., Shukla, A.K., Sharma, S.K., A Bi-Phasic Model for Artificial Replacement in Human Knee Joint, International Journal of Applied Mechanics and Engineering, Vol. 14 No. 3 633-643 (2009).
20. Bali, Rekha, Sharma, S.K., A Model for Intra-Articular Heat Exchange in a Knee Joint, Tribology letters, USA, Vol. 41 379-386.
21. Bali, Rekha, Awasthi, Usha, Study of an Oxygenation process in Capillary in the presence of magnetic field, International Journal of Mathematics Analysis, Vol. 4 No.35, 1697-1706 (2010).
22. Bali, Rekha, Mishra, Swati, Mishra, Mamta, Effect of Deformation of red cell on Nutritional transport in capillary tissue exchange system, Applied Mathematics, Vol. No. 2 1417-1423 (2011).
23. Bali, Rekha, Awasthi, Usha, Mathematical Model of Blood Flow in Small Blood Vessel in the Presence of Magnetic Field, Applied Mathematics, Vol.2, 246-249 (2012).
24. Bali, Rekha, Mishra, Swati, Tandon, P.N., A simple model for squeezing flow of red blood cell in narrow capillary, Advances in Applied Sciences, Vol. No. 3(3) 1353-1360 (2012).
25. Bali, Rekha, Awasthi, Usha, A Casson Fluid Model for Multiple Stenosed Artery in the Presence of Magnetic Field, Applied Mathematics, Vol. No.3, 436-441 (2012).
26. Bali, Rekha, Mishra, Swati, Tandon, P.N. , A Study of fluid filtration in capillary tissue fluid exchange system, International Journal of Latest Technology in Engineering, Management and Applied Science, Vol. No.4, 2278 -2540(2015).
27. Bali, Rekha, Mishra, Swati, Tandon, P.N., Three layer model for blood flow in small blood vessels, e-Journal of Science &Technology, Vol.No.11 (1), 121-130,(2016).
28. Bali, Rekha, Mishra, Swati, Tandon, P.N., Study of Anomalous behavior of Blood Flow in capillary surrounded by tissue, International Journal of Mathematics And its Application, Vol.No.4,1(B), 121-131,(2016).

29. Bali, Rekha, Gupta, Mishra, Swati, Study of Transport of Nanoparticles with Power law fluid model for blood Rheology in Capillaries, Journal of Progressive Research in Mathematics, Vol.No.7(3) 1053-1062(2016).
30. Bali, Rekha, Gupta, Nivedita, Mishra, Swati, Dispersion characteristics of non-Newtonian fluid during transportation of nanoparticles in permeable capillary, Applications and Applied Mathematics: An International Journal, Vol. 11(2), 632-645 (2016).
31. Bali, Rekha, Gupta, Nivedita, Mishra, Swati, Numerical solution of Ellis fluid model in stenosed arteries, International Journal of Mathematical Archive, Vol. 8(6), 218-226, (2017)
32. Bali, Rekha, Gupta, Nivedita, An Study of non-Newtonian fluid by K-L model through a non-symmetrical stenosed narrow artery, Applied Mathematics and computation (Elsevier), Vol.320, 358-370, 2018
33. Bali Rekha, Gupta Nivedita, Study of Transport of Nanoparticles with K-L Model Through a Stenosed Microvessels, Application and Applied Mathematics: An International Journal , Vol.13, Issue 2 (December 2018), pp, 1157-1170.
34. Bali Rekha, Prasad Bhawini, Mishra Swati. A Review On Mathematical Models For Nanoparticle Delivery In The Blood. International Journal Of Advanced Research, 10(04), 130-146 ISSN:2320-5407 DOI:10.21474/IJAR01/1456
35. Bali Rekha, Prasad Bhawini, Mishra Swati. On The Thermodynamic Properties And Flow Of Different Shapes Of Nanoparticles In A Catheterized Composite Artery. (2022) International Journal Of Trend In Scientific Research And Development. Volume 6, Issue 4, pp- 653-664 URL:www.itjsrd.com/papers/itjsrd50519.pdf
36. Bali Rekha, Mishra Swati, Gupta Nivedita, Prasad Bhawini. Mathematical Model Of Concentration Dependent Viscosity For The Effect Of RBC On The Transport Of Nanoparticles. (2022) International Journal Of Innovative Research. Volume 11, Issue 6,e- ISSN:2319-8753, p-ISSN:2320-6710 , DOI:10.15680/IJRSET,2022.1106127
37. Bali Rekha, Prasad Bhawini, Mishra Swati. Study Of Effect Of Different Shapes Of Nanoparticles In Three-Layer Model For Blood Flow In Arterioles. (2022) Contemporary Mathematics. Volume 3, Issue 3, pp- 270-287 DOI:10.37256/cm.3320221537

B. Publications in Proceedings of Conferences / Seminars / Workshops

Sl. No.	Title of the paper presented	Title of conference /seminar	Organized by/ Held at	Whether international / national	Presented /attended	Co- Authors
1.	A new model for gel formation on Cartilageous surfaces in normal and pathological states	National Conference of Fluid Mechanics and fluid power	Srinagar (1987)	National	Presented /attended	P.N.Tandon
2.	Role of synovial fluid in the functioning of knee joint	2 nd international conference on physiological fluid dynamics	Madras (1987)	International		P.N.Tandon
3.	Micro structural and peripheral layer viscosity effects and pulsatile blood flow in	National Conference of Fluid Mech. and fluid power	Srinagar (1987)	National	Presented /attended	P.N.Tandon, J. Prakash, J.K. Mishra

	complaint tubes					
4.	A study of diffusion phenomenon in modelled normal and stenotic capillary tissue exchange system.	International of Int. Conference on computational methods inflow Analysis	Japan , (1988)	International		P.N.Tandon
5.	A Mathematical model of particle deposition in modeled Bronchial tube	International conference of Mathematical Modeling in Sci. &Technology	Madras (1988)	International		P.N.Tandon
6.	A model for the articulation of ankle joint.	National. Conf. of Biomechanics (1988),New Delhi	New Delhi (1988)	National	Presented /attended	P.N.Tandon
7.	Rheological study of laminar turbulent transition in blood flows.	Natl. Conf. of FM and FP. Kanpur	Kanpur (1988)	National	Presented /attended	P.N.Tandon
8.	Analysis of coupled heat and Vapour Transport Mechanism in a modelled Bronchial Tube	42nd Annual meeting of Indian Institute of Chemical Engineers	Vadodara (1988)	National		P.N.Tandon et.al.
9.	A Biphasic model of Articular Cartilage in reference to	Proc. Of In Int. Conf. Mathematical modeling	Brunei (1995)	International	Presented /attended	

	human joint articulation.					
10.	A model of Ankle joint.	Proc. of Int. Conf. on Mathematical modelling	Brunei (1995)	International	Presented /attended	
11.	A study of Temperature regulation in synovial joint.	9 th International symposium on transport Phenomena	Singapore (1996)	International	Presented /attended	P.N.Tandon
12.	A Model for lubrication of Knee joints	Advances in Biomechanics" Conference on Biomechanics	Bhopal	National		
13.	A Mathematical Model for Ankle Joint.	Proc. of International Conference on Mathematical Modelling of Non-Linear Systems	Kharagpur	National		P.N.Tandon & Amita Chaurasia

C. Chapters Published in Edited Books

Sl. No	Title of the Chapter	Title of the Edited Book	ISBN No.	Publisher	Year
1.	Rheological study of laminar-turbulent transition in drag reducing polymeric solution	Encyclopedia of fluid mechanics	0-87201-540-8	Gulf publishers U.S.A	1987 Chapter 15 459-477

(A) Invited Lectures and Chairmanships at National or International Conference

Sl. No.	Name of conference / seminar etc.	Organized by	Period		Invited Lecture / Chairman of Technical sessions
			From	To	
1.	Short Term Training Programme for teachers of	R.D & TI	April.29, 2002	May.2, 2002	Invited Lecture

	polytechnics				
2.	Refresher course on” Applied Mathematical Techniques for Chemical Science”	Networking cell , TEQIP, World Bank Project , HBTI Kanpur	April.11, 2007	April.15, 2007	Invited Lecture
3.	Workshop on “ Role of Mathematics in Science and Technology	Mathematics Department HBTI, Kanpur	Oct. 24, 2007	Oct. 24, 2007	Invited Lecture
4.	Short Term Training Programme for Staff of Polytechnic	Institute of Research Development & Training, Kanpur	Dec. 17, 2007	Dec. 20, 2007	Invited Lecture
5.	Wokshop on “ modeling and simulation of chemical process”	Deptt of Chemical Engg HBTI, Kanpur	Feb. 24, 2009	Feb. 28, 2009	Invited Lecture
6.	Optimization Techniques for Engineers	Deptt of Chemical Engineering HBTI, Kanpur	March. 23, 2009	March. 28, 2009	Invited Lecture
7.	Seminar on mathematics & its application to industries	DBS (PG) Kanpur	Jan.1, 2009	Feb. 2, 2009	Invited Lecture
8.	Mathematics Day Celebration	Deptt of Mathematics Dr. B.R. Ambedhkar University IBS, Khandari Agra	Dec. 22, 2009	Dec. 22, 2009	Invited Lecture & Chairperson
9.	Mathematical Modeling and System Simulation	Deptt of Mathematics HBTI, Kanpur	Feb 20, 2010	Mar.31, 2010	Invited Lecture
10.	Memorial weekend lecture series on “ Modeling and Computing “	Deptt of Mathematics HBTI, Kanpur	Feb.18, 2012	Mar. 18, 2012	Invited Lecture
11.	Five days Sir Ramanujan Memorial workshop / Lecture	Deptt of Mathematics DAV college, Kanpur	Dec. 18, 2012	Dec.22, 2012	Invited Lecture & Chairperson

	Series				
12.	Modelling & Simulation in Biomechanics in All India Seminar RTFIT 2012	The Institution of Engineers (India) Kanpur Local chapter U.P State centre Lucknow & CSE Deptt ,HBTI, Kanpur	2012		Invited Lecture
13	Numerical Techniques: Advantages and Applications	Academic staff college Lucknow	Jan. 02, 2019	Jan. 22, 2019	Invited Lecture
14.	Two lectures on the topic – ‘ Application of Numerical Techniques’	Department of mathematics University of Allahabad, Prayagraj	12.10.2019	12.10.2019	Invited Lecture
15.	‘ Importance of Numerical Techniques in Applied Sciences’ as a guest speaker	Department of mathematics, DAV College, Kanpur	9.12.2019	9.12.2019	Invited Lecture
16.	Importance of Numerical Techniques in Applied Sciences	Faculty of Science, Department of Mathematics “ Annamalai University	3 rd June, 2020	4 th June, 2020	Invited Lecture

(B)Details of participation in Refresher courses / Teaching-learning-evaluation technology programs / Soft skills development programs /Webinar/ Faculty development programs etc.

Sl. No	Name of the Course	Name of the organization	Period		Sponsoring authority
			From	To	
1.	Two week short term course on “ Reliability and safety in process “	HBTI Kanpur	28.09.98	10.10.98	AICTE - ISTE

2.	Refresher course on " Sobolev spaces and its Application	IIT Kanpur	03.12.98	20.12.98	IIT Kanpur
3.	Workshop on " Consensus learning process"	BBDNITM. Lucknow	09.06.02	09.06.02	UPTU, Lucknow
4.	Engineering Shbdavali Karyashala	Govt. of India (Commission for Scientific and Technical Terminology) (MHRD)	25-26 June- 03	26 June- 03	NSI, Kanpur
5.	SAM Workshop on " Capacity building of Women Managers in Higher Education"	Continuing Education Centre, IIT, Roorkee	18 May-09	22 May-09	IIT, Roorkee
6.	STTP on " Intellectual Property Rights and Patent information"	HBTI, Kanpur	27.09.04	01.10.04	NITTTR (MHRD) CHANDIGARH
7.	One week FDP on " Advances in Engineering Materials"	HBTI, Kanpur	16.03.09	21.03.09	TEQIP World Bank Project
8.	STTP on " Optimization Techniques for Engineers"	HBTI, Kanpur	23.03.09	28.03.09	ISTE-AICTE
9.	One Day Workshop on " Data Analysis Using SPSS"	STEP-HBTI, Kanpur	11.12.10		STEP-HBTI, Kanpur
10.	FDP on " Essentials of Teaching learning process"	HBTI, Kanpur	18.03.13	23.03.13	TEQIP World Bank Project (Phase-II)
11.	One week FDP on "Modeling , Simulation and Analysis of Engineering Systems"	HBTI Kanpur	25.10.13	30.10.13	TEQIP World Bank Project (Phase-II)
12.	One week short term course on "Curriculum Development and Evaluation Methods in Technical Education"	HBTI Kanpur	01.05. 13	06 July-13	TEQIP World Bank Project (Phase-II)
	FDP on " Engineering	HBTI Kanpur			TEQIP

13.	Education: Opportunities , Challenges & Future Directions		7.03.14	12.03.14	World Bank Project (Phase-II)
14.	FDP on Recent Advances in Chemical Engineering	Department of Chemical Engineering	23/07/18 to 27/07/2018	23/07/18 to 27/07/2018	HBTU, Kanpur
15.	FDP on Methods and Techniques for Enhanced Teaching and Learning in Technical Education.	Department of Chemical Engineering	15/10/18 -20/10/18	15/10/18 -20/10/18	HBTU, Kanpur
16.	Training need analysis of faculty Members	TEQIP- III	22/01/19	22/01/19	HBTU, Kanpur
17.	STC on “ Numerical Methods and Applied Statistics”	Department of Applied Sciences, NITTTR ,Chandigarh	23.09.2019	27.09.2019	NITTTR ,Chandigarh
18.	WORKSHOP on “ Prevention OF Sexual Harassment of Women at Workplace”	Organised by NAHRD	14.10.2019	15.10.2019	NAHRD
19.	Participated in one day workshop on ‘ Gender’ s Sensitization and Women Empowerment’ & ‘ Problem Based and Project based learning’	Organised by SPIU	22.02.2020	22.02.2020	SPIU
20.	Attended Expert Training Programme at AICTE, New Delhi	Organized by AICTE	27.02.2020	27.02.2020	AICTE
21.	Attended Consultation workshop on Pavitra Ganga Project	Organized by the Energy and Resources Institute (TERI)	06.03.2020	06.03.2020	Energy and Resources Institute (TERI)
22.	SWAYAM Course on “ Digital Transformation in Teaching Learning Process”	NPIU(TEQIP-III), IIT Bombay	April 06, 2020	April 22, 2020	NPIU(TEQIP-III), IIT Bombay
23.	Participated in FDP on “ Advancement in Science and Humanities”	Department of Science and Humanities, PANIMALAR	May 25-29, 2020	May 25-29, 2020	Department of Science and Humanities, PANIMALAR

		INSTITUTE OF TECHNOLOGY, CHENNAI			INSTITUTE OF TECHNOLOGY, CHENNAI
24.	Participated in Online Workshop on “ Interactive Teaching and Experimental Learning using MATLAB and SIMULINK”	SPIU, UTTAR PRADEH	May 13, 2020	May 13, 2020	SPIU, UTTAR PRADEH
25.	Participated in WEBINAR on “ Virtual Teaching Learning With Google Classrooms , Google Meet & YouTube”	Organized by BIET Jhansi in Association With SPIU (U.P.)	May 18, 2020	May 18, 2020	BIET Jhansi in Association With SPIU (U.P.)
26.	National Webinar on “ Unlocking the Lockdown Through E – Examination “	IET Ayodhya and SPIU(U.P)	May 20, 2020	May 20, 2020	IET Ayodhya and SPIU(U.P)
27.	Webinar On “ Microsoft Digital Transformation ”	CSE, HBTU Kanpur	May 12, 2020	May 12, 2020	CSE, HBTU Kanpur
28.	National Webinar on “ EMERGING WIRELESS TECHNOLOGIES: Future Trends Of Multiple Access Schemes”	HBTU, Kanpur and NIT Kurushetra	May 29, 2020	May 30, 2020	HBTU, Kanpur and NIT Kurushetra
29.	Virtually participated in 2020 International Workshop on “ Education 4.0 :Transformation of Learning Environment”	Rajkiya Engineering College Banda with Consillo Intelligence Research Lab, Noida	May 29, 2020	May 30, 2020	Rajkiya Engineering College Banda with Consillo Intelligence Research Lab, Noida
30.	Participated in the Webinar on “ Introduction to MATLAB Programming”	Electronics Engineering Department, HBTU Kanpur	May 18, 2020	May 23, 2020	Electronics Engineering Department, HBTU Kanpur
31.	Webinar On “ MATLAB for AI, Machine Learning and Deep Learning	Jointly organized with CSE and ET Departments, HBTU, Kanpur	May 30, 2020	May 30, 2020	CSE and ET Departments, HBTU, Kanpur
32.	National Webinar on “ EFFECTS OF USE OF MOBILE PHONES AND	ET DEPTT. HBTU, KANPUR and GWEC, AJMER	May 24, 2020	May 25, 2020	ET DEPTT. HBTU, KANPUR and

	TOWERS ON HUMAN LIFE”				GWEC, AJMER
33.	“ Modeling and Similation” in the memory of Shrinivasa Ramanujan on 22 December, 2020.	Departments of Mathematics, HBTU, Kanpur	Dec. 22, 2020	Dec. 22, 2020	Departments of Mathematics, HBTU, Kanpur
34.	Professional Development Training Programe	IIM Kozhikode	Jan. 11, 2021	Jan. 15, 2021	IIM Kozhikode

(C) Organizing Seminars / Conferences / Workshops / Refresher Courses / Training programs / Faculty Development Programs etc.

Sl. No.	Name of the Program	Organizing Institution/ Department/ Body	Period		Sponsoring authority	Name of the co-organizer (if any)
			From	To		
1.	Conference on “ Recent trends in Mathematics and Applications	Mathematics Department HBTI, Kanpur	Sep. 9, 1993	Sep. 9, 1993	HBTI Kanpur	Member
2.	Seventh Annual conference of Vijnana Parisad of India	HBTI Kanpur	Oct. 24, 1997	Oct. 26, 1997	HBTI Kanpur	Member
3.	Seminar to Commemorate the 78 th Birthday of Prof. Harish Chandra	HBTI Kanpur	Oct. 11, 2000	Oct. 11, 2000	HBTI Kanpur	As Assistant Organising Secretary
4.	World Mathematical Year	HBTI Kanpur	Dec. 31, 2000	Dec. 31, 2000	HBTI Kanpur	As Assistant Organising Secretary
5.	Application of Mathematics in Engineering & Technology	HBTI Kanpur	Sept 8, 2007	Sept 8, 2007	Networki ng Cell, TEQIPN World Bank Project, HBTI , Kanpur	Deputy Coordinato r, Organising Committee
					Econom	

6.	Role of Mathematics in Science & Technology	HBTI Kanpur	Oct. 24, 2007	Oct. 24, 2007	y & community Cell, World Bank Project, HBTI , Kanpur	Deputy Coordinator, Organising Committee
7.	Mathematical Validation of Pranayam	Collaboration of Yoga Club at HBTI, Kanpur	Nov 21, 2007	Nov 21, 2007	Economy & community Cell, World Bank Project, HBTI , Kanpur	
8.	30 hours Prof. P.N. Tandon Memorial Weekends Lecture series on Modelling and Computing	HBTI , Kanpur	Feb. 18 2012	March. 18 2012	HBTI , Kanpur	Organizing Secretary
9.	Faculty Development Program on Mathematical Modeling and Research Methodology	Department of Mathematics School of Basic and Applied Sciences HBTU Kanpur (Sponsored by TEQIP-III)	08/10/18 to 12/10/18	08/10/18 to 12/10/18	HBTU, Kanpur	Coordinator

10.	One week short term training programme on “ Data Analysis and SPSS Software”	Department of Mathematics School of Basic and Applied Sciences HBTU Kanpur (Sponsored by TEQIP-III)	21/10/2019	25/10/2019	HBTU Kanpur	Convener
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(D) Membership of Scientific / Professional Bodies:

Sl. No.	Name of Scientific /Professional Body	Type of present Membership	Position held, if any
1.	Indian society of biomechanics	Life membership	Member
2.	Harcourtians Alumni Association	Life membership	Member

Administrative duties performed in the Institute Worked as:

1. Dean , School of Basic and Applied Sciences , HBTU Kanpur from 1/11/2018 to 31/10/2020.
2. Head , Mathematics Department ,HBTU Kanpur from 3/4/2018 to till date.
3. Grievance Redressal Officer ,HBTU Kanpur from 15/07/2018 to till date.
4. Member Admission Committee, HBTU Kanpur from 1/11/2018 to 31/10/2020.
5. Chairman, Board of Studies , Mathematics Department , HBTU , Kanpur from 1/11/2018 to till date.

6. Presiding Officer of Committee based on Vishakha Guidelines (The Sexual Harrasement of Women at Workplace Act 2013) from 26/11/2018 to till date.
7. Leader Flying Squad , HBTU KANPUR Even semester Examination , 2019.
8. Member of Various Committees in reference to NBA Accreditation, HBTU Kanpur from 25/03/2019 to 07/04/2019.
9. Member of Board of Examination, HBTU Kanpur from 31/01/2019 to till date.
10. Head , Mathematics Department , HBTI , Kanpur from 23/03/06 to 23/03/09
11. Member of Duly Approved department level (DAIP) Committee for Mathematics and Chemistry Department, HBTU Kanpur from Dec 11, 2018 for two years.
12. CoConvener, Shikayat Nivaran Samiti , HBTU Kanpur from 07/07/2017 to till date.
13. Worked as Flying Squad in UPSEE- 2013, GBTU at Kanpur.
14. ACS/DCS in Even Semester Exam of MTU Noida at HBTI Kanpur from 23.05.13 to 07.06.13.
15. As observer in UPSEE Counseling from 08.07.13 to 16.07.13.
16. As a Centre Controller for conduction of UPSEE 2012.
17. Centre controller in UPSEAT 2005, SEE-2006.
18. Worked in Online Counseling of SEE-2006, 2007 , 2008 & 2010.
19. Assistant Superintendent in SEE-2008-2009 & in even semester examination-UPTU 2007-08.
20. Assistant Superintendent in even semester examination (2008-2009) of HBTI, Kanpur and Ist & IInd midterm test of session 2008-2009 (II sem.).
21. Incharge , Mathematics Department , HBTI , Kanpur
22. Member of Academic council .
23. Member of committeeto prepare parinium for student Aid fund and Misscellenous expenditure on unspecified expenditure., HBTU, Kanpur
24. Member of Anti ragging committee.
25. Member in the team of “ Women’ s grievances redressal cell” .

26. Member of Time Table committee.
27. Convener and Member of Departmental purchase committee.
28. Member of Stock verification committee.
29. Member of committee to select candidates for Ph.D. course in different disciplines in institute and to conduct entrance formalities.
30. Convener and Member of Selection committee of Guest Lecturers in Mathematics.
31. Member of Selection Committee for the Interview of Lecturer & Research Assistant. (Maths Deptt.).

Participation in extra-curricular activities :

1. Member , Draft Commiittee for Convocation 2020 held on Dec 7,2020, HBTU , Kanpur.,
2. Dy. Coordinator, Induction Program for new entrants from July 31 to August 18, 2018 and member, Induction Programme 2019-20.
3. Member of Invitation and Reception committee in Convocation 2010, 2020
4. Member ,Selection Committee for Ph.D. Students July 17, 2018, 2019 ,2020 HBTU,Kanpur
5. Chairperson , Faculty development program on “ Recent Trends in Condensed matter Physics “ organized by Department of Physics, HBTU, Kanpur from 29th November- 1st December ,2018.
6. Member, “ ADHYAY -2018” .
7. Conducted Self defence training in Girls Hostels.
8. Member Inter Hostel Cultural and Sports Activity and Fresher’ s Funcion ,2018
9. Member, “ UHTAAN a Start up Nirman” on 16.11.2018
10. Chairperson Faculty development programme on “ Matrial Synthesis and Advanced Characterization Techniques “ under Teqip 3, from December 01-04 ,2018 Organised by Department of Chemistry , HBTU,Kanpur.

11. Member Reception Committee, Workshop On State level Faculty Interaction Seminar under the aegis of Department Level Faculty Interaction Seminar under the aegis of Department of Technical Education , Govt of U.P. , June 8-9, 2015 , HBTI, Kanpur.
12. Member of Anti-ragging Committee.
13. Member of organizing Committees in Annual Athletic Meet organized by Sports of Sub-
14. Council under Council of Student's Activities HBTI Kanpur.
15. Worked as Presiding officer in Election of student secretaries for different sub council/clubs
16. of the council of student Activities.
17. As a judge at the event in odyssey 2007.
18. Member of Various Discipline committees.
19. Warden Girl Hostels
20. Subject Expert , Board of studies , Department of applied Sciences , KNIT, SULTANPUR
21. Nominated and worked as Single point of contact (SPOC) for establishment of digital board /classrooms in University (HBTU, KANPUR) under aegis of TEQIP-3.
22. Subject expert , Syllabus modification Committee for Applied Mathematics in polytechniques, IRDT , Kanpur.
23. Expert Member Selection Committee (Mathematics) , KIT, Kanpur