

1.	Name	Dr. Kul Bhushan Agnihotri
2.	Designation	Associate Prof
3.	Date of Birth	19-04-1969
4.	Education Qualification	Ph. D (Maths)



Picture

Email Id:
agnihotri69@gmail.com

5.	Work Experience	Teaching and Administrative :							
		List of all your previous employment in order (Most recent first)							
		S.No.	Name of Employer & Address	Position / Designation	Basic Pay Grade Pay	Nature of Job	DoJ	Date of Leaving	Total Exp
		1.	Director, SBS State Technical Campus, Ferozepur	Assoc. Prof	58290	Teaching	05 July, 1996	Till date	20Yrs
		2	Principal P.E.C. Chandigarh	Lecturer	Guest Faculty	Teaching	24 Aug, 1995	18 April 1996	1 yr
		3	Principal B. D. Arya Girls College Jalandhar Cantt	Lecturer	Consolidated	Teaching	19 Aug 1991	30 May 1992	1 yr
4	Principal B. D. Arya Girls	Lecturer	Consolidated	Teaching	17 Aug	33 Marc	1 yr		

	College Jalandhar Cantt				1993	h 1994	
Administrative							
N.C.C Officer of College Member, Committee constituted by worthy Chairman FOR "Construction Planning, Execution and Inspection Committee Co-ordinator Numerical Analysis Lab							
Research : 2003-2010, IIT Roorkee 2010-till date, SBS State Technical Campus, Ferozpur							

		Others : Nil	
6.	Area of Specializations	Mathematical Modelling, Bio-Mathematics	
7.	Subjects Teaching at	(a) Graduate Level Maths-I, Maths-II, MathsIII, Numerical Methods, Probability and Stat., Discrete Structure	
		(b) Post Graduate Level Taught mathematics to Msc student of Bio technology in IIT Roorkee	□
8.	Total Number of Research Publications (Annexure-A)	Published	Communicated

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9. **No. of Students Guided**

Master's

Ph.D

Guided 01 and guiding 6
more

10. **Academic
Achievements
and Awards.**

Young Scientist Award
Two of my paper were given best paper Award

11.	Projects Carried out		
12.	Projects in Hand		
13.	Applied Project		

15.	Short-Term Courses Organised as a faculty		
16.	Short-Term Courses Attended	31	
17.	Faculty Development Programmes organized in the Institute	(List is attached as Annexure-B)	
18.	Membership of professional bodies:		
19.	Main Extra-Curricular Activities organized :Annexure-C		
20.	Main Curricular and Co-Curricular Activities Organised: Annexure-D		

Annexure-A

LIST OF PUBLICATIONS

(A) International Referred Journals

Publications in Journals

1. Anuj Sharma, Amit Sharma, **Kul Bhushan Agnihotri**, “Bifurcation behaviors analysis of a plankton model with multiple delays” *International Journal of Biomathematics* Vol. 9, No. 6 (2016) 1650086 (World Scientific)DOI: 10.1142/S1793524516500868. **Impact Factor 0.938 under Thomson Reuter** ISSN 1793-7159(online).
2. A. K. Sharma , A. Sharma and K. Agnihotri “Spatiotemporal Dynamic of Toxin Producing Phytoplankton (TPP)-Zooplankton Interaction”, *International Journal of Mathematical Modelling & Computations* Vol. 06, No. 03, Summer 2016, 189- 197
3. Amit Sharma, Anuj Sharma, **Kul Bhushan Agnihotri**, “Analysis of a toxin producing phytoplankton–zooplankton interaction with Holling IV type scheme and time delay”.**Kul Bhushan Agnihotri**, Anuj Sharma, Rakesh Kumar, “ The Dynamics of an innovation Diffusion Model With Delay”, *East Asian Journal of on Applied Mathematics (SCI Impact Factor 0.489)* DOI 10.4208/EAJAM pp1-33.
4. Amit Sharma, Anuj Sharma, **Kul Bhushan Agnihotri**, “Complex Dynamics of phytoplankton–Fish interaction With Quadratic Harvesting and Time Delay.*Model. Earth System Environ (Springer)* 204(2016), 10.1007/s40808-016-0248-x pp 1-17.
5. **Kul Bhushan Agnihotri**, Harpreet Kaur, “**Mathematical Modelling of Migrated Phytoplankton Species in an Infected and Toxin Producing Phytoplankton-Zooplankton System**”, *International Journal of Computer Applications* , 9(2016), 22-27 (ISSN. 0975-8887) Imp Factor 0.752 (2015).
6. *Nonlinear Dyn (Springer)*, 10.1007/s11071-015-1969-5. **Impact Factor 2.4 under Thomson Reuter.**
7. **K. B. Agnihotri**, N. Juneja, Predator-Prey System with Infection in Predator Only, . 83 (2015) 32909-32917. (*Elixir Int. Journal. (Appl. Math)*ISSN 2229-712X)
8. Amit Sharma, Anuj Sharma, **Kul Bhushan Agnihotri**, “The dynamic of plankton–nutrient interaction with delay”, *Applied Mathematics and Computation (AMC) in 231 (2014) 503–515 of Elsevier* having **Impact Factor 1.6 under Thomson Reuter.** ISSN :0096-3003
9. **Kul Bhushan Agnihotri**, Natasha sharma, “Developments In Ecological Modeling Based On Cellular Automata”, *Innovative Systems Design and Engineering(USA)*, 75-78, Vol.6, No.2, 2015, ISSN 2222-1727 (Paper) ISSN 2222-2871 (Online)
10. Amit Sharma, Anuj Sharma, **Kul Bhushan Agnihotri**, “Bifurcation Analysis of a Plankton Model with Discrete Delay, *International Journal of Mathematical, Computational Science,Physical, Electrical and ComputerEngineering in Vol:8 No:1 2014. (International Sci. Index)*

11. Amit Sharma, Anuj Sharma, **Kul Bhushan Agnihotri**, "Dynamical Analysis of a Harvesting Model of Phytoplankton-Zooplankton Interaction" *International Journal of Mathematical, Computational Science, Physical, Electrical and Computer Engineering in Vol:8 No:6 of 2014. (International Sci. Index)*
12. **K.B. Agnihotri**, S.Gakkhar, N. Juneja, Prey Predator System with Immigration of Susceptible Prey, *V. Int Res J. Sc. & Tech*, 1(2012), 39-45. **(ISSN:2277-999X)**
13. **K.B. Agnihotri**, N. Juneja, Prey Predator System with Differential Predation Rate, *V. Int. Res. J. Sc. & Tech.*, 1(2012), 1-8. **(ISSN:2277-999X)**
14. **K.B. Agnihotri**, S.Gakkhar, The Dynamics of Disease Transmission in a Prey Predator System with Harvesting of Prey, *Int. J. Adv Res comp Engg & Tech*, 1(2012), 1-17. **(ISSN:2277-999X)**
15. Gakkhar S., **Agnihotri, K. B.**, S.I.S Model for Disease Transmission from Prey to Predator, *J. Int. Acad. Phy. Sci. Vol 14 (2010). (ISSN 0974 – 9373).*

Publications in Proceedings of International and National Conferences/Workshops/Seminars

International Conferences

1. 8)

National Conferences

2. Gakkhar, S., Agnihotri, K. B., *Effect of Migration on Disease Transmission in a Prey Predator System, Proc. of National Conference on Advances in Mathematics & its Applications (AMA2008), NIT Hamirpur, India, pp 270-274.*

(ISBN: 978-81-907839-1-0)

Following two papers Co-authored by him were Winner of "Balbir Singh Centre for Sciences" Award for Young Scientist in UGC Sponsored National Workshop held on March 30-31 March 2012 in Lyallpur Khalsa College Jalandhar, Punjab

3. Agnihotri, K.B., Juneja, N., *The impact of Reduced predation ability of infected Predator on Prey Predator System, Proc. of UGC sponsored National Workshop on Statistics, Optimisation and Mechanism Learning, Balbir Singh Centre for Sciences, Lyallpur Khalsa College Jalandha (Pb), 18-23(2012).*
4. Agnihotri, K.B., Nayyar, S., *The Age of Optimization Solving Large Scale Real World Problems, Proc. of UGC sponsored National Workshop on Statistics, Optimisation and Mechanism Learning, Balbir Singh Centre for Sciences, Lyallpur Khalsa College Jalandha (Pb), 38-44 (2012).*
5. Agnihotri, K.B., Juneja, N., *Use of Mathematical Modelling in Prey Predator system, Proc. of UGC National Seminar, sponsored by UGC on "Advance Mathematics: Its Implications in Modern Era" held at D.A.V College Batala, Punjab 2012.*

6. Agnihotri, K.B., Nayyar, S., *Application of Operation Research in Socio, Economic growth of Industry, Proc. of UGC National Seminar, sponsored by UGC on "Advance Mathematics: Its Implications in Modern Era" held at D.A.V College Batala, Punjab 2012.*
7. Agnihotri, K.B., Juneja, N., "Hopf Bifurcation on Prey Predator System in Which only Prey is Infected", *Proc. of One Day National Seminar on Application of Advance Mathematics to Business Management and Financial Sectors and Emerging Areas of Research, at S. D College for Woman, Jalandhar India (2014)*

(B) National Referred Journals

(C) International Conferences

1. Agnihotri, K.B., Juneja, N., "Study of Recent Application of Mathematics in Engineering and Technology ", International Multi Track Conference On Sciences, Engg. & Technical Innovations (IMTC-15), Jalandhar, India,
2. Agnihotri, K.B., Juneja, N., "An Eco-Epidemic Predator-Prey Model with Disease in Prey ", International Multi Track Conference On Sciences, Engg. & Technical Innovations (IMTC-14), Jalandhar, India, **(ISBN : 978-81-929077-1-0)**
3. Agnihotri, K.B., Sharma, A, Kumar R., "Market Innovations Diffusion Models-A Review", *Proc. of International Conference on Frontiers in Material Research & Applications (FMRA-2014) (India), 259-261. (ISBN:978-93-83842-92-6).*
4. Agnihotri, K.B., Sharma, N. "Application of Cellular Automata in Modelling of Phenomena in Broad Discipline of sciences", *Proc. of International Conference on Frontiers in Material Research & Applications (FMRA-2014) (India), 259-261. (ISBN: 978-93-83842-92-6).*
5. Agnihotri, K.B., Juneja, N., "Effect of Disease on Harvested Prey Predator System", *Proc. of International Conference on Information and Mathematical Sciences IMS-2013. (Elsevier), (ISBN: 978-93-5107-162-4).*
6. Gakkhar S., Agnihotri K. B., "A Prey Predator System with Disease Crossing Species Barrier", *Proc. of International Conference on Recent Advances in Mathematical Sciences & Applications (RAMSA 2009), Vishakhapatnam, India. (ISBN: 978-81-910605-0-*

(D) National Conferences

8. Gakkhar, S., Agnihotri, K. B., *Effect of Migration on Disease Transmission in a Prey Predator System, Proc. of National Conference on Advances in Mathematics & its Applications (AMA2008), NIT Hamirpur, India, pp 270-274.*
(ISBN: 978-81-907839-1-0)

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9. *Agnihotri, K.B., Juneja, N., The impact of Reduced predation ability of infected Predator on Prey Predator System, Proc. of UGC sponsored National Workshop on Statistics, Optimisation and Mechanism Learning, Balbir Singh Centre for Sciences, Lyallpur Khalsa College Jalandha (Pb), 18-23(2012).*
10. *Agnihotri, K.B., Nayyar, S., The Age of Optimization Solving Large Scale Real World Problems, Proc. of UGC sponsored National Workshop on Statistics, Optimisation and Mechanism Learning, Balbir Singh Centre for Sciences, Lyallpur Khalsa College Jalandha (Pb), 38-44 (2012).*
11. *Agnihotri, K.B., Juneja, N., Use of Mathematical Modelling in Prey Predator system, Proc. of UGC National Seminar, sponsored by UGC on "Advance Mathematics: Its Implications in Modern Era" held at D.A.V College Batala, Punjab 2012.*
12. *Agnihotri, K.B., Nayyar, S., Application of Operation Research in Socio, Economic growth of Industry, Proc. of UGC National Seminar, sponsored by UGC on "Advance Mathematics: Its Implications in Modern Era" held at D.A.V College Batala, Punjab 2012.*
13. *Agnihotri, K.B., Juneja, N., "Hopf Bifurcation on Prey Predator System in Which only Prey is Infected", Proc. of One Day National Seminar on Application of Advance Mathematics to Business Management and Financial Sectors and Emerging Areas of Research, at S. D College for Woman, Jalandhar India (2014)*

(E) Invited Talk

1. *Expert talk in two week FDP on " Research Techniques". On 27 May-05 June 2015 at SBS STC, Ferozepur, Punjab India*
2. *Expert talk in one day seminar at ACET, Amritsar on 23 March, 2015.*
3. *Expert talk in National Conference on Recent. Advancements in Mathematics (TEQIP II sponsored) from 1-2 Feb, 2014 at BCET, Gurdaspur.*
4. *Expert talk in one week FDP at ACET, Amritsar on 30 Jun-04 July, 2014.*
5. *Expert talk in three day workshop on **Mathematical Sciences** from 23-25 Jan, 2014 at LRDAV College, Jagraon, Punjab on 24 Jan, 2014.*
6. *Expert talk on Mathematical Modelling for Real World Problem in a National level AICTE – TEQIP sponsored Two week FDP on Nature Inspired Computational Intelligence from on 8 May, 2013.*

7. *Expert talk on Mathematical Modelling of a Epidemic Model in National level 2-week FDP on Analytical Techniques for Detection of Environmental Pollutants under TEQIP II from 16 27, Dec 2013*
8. *Expert talk in AICTE sponsored two week Staff Development Programme “Multiple-Criteria Optimisation Tools in Resarch” organised by Deptt of Mech Engg from 21 May2012 to 1st June 2012.*
9. *Expert talk in UGC sponsored National Seminar “National Lavel One day Science Seminar” organised by Dev Smaj college for Woman, Ferozepur on 16th Feb 2012.*
10. *Expert talk in UGC sponsored National Seminar “National Lavel One day Science Seminar” organised by Dev Smaj college for Woman, Ferozepur on 28st Feb 2011.*

Annexure-B

Faculty Development Programme organized in the Institute

Sr.No	Title	Duration	Institution
1	NSS Training & Orientation Course (MHRD)	7-10 Oct, 1999	Partap Inst for Soc. Wel & Dev, Ldh
2	Orientation Course	3-30, Mar, 2000	P. U. Chd
3	Total quality Management & ISO-9000 Quality Systems	1-12 Jul, 2002	SBSCET, Ferozepur
4	Industry Institute Interaction: New Challenges	16-27 Dec, 2002	SBSCET, Ferozepur
5	Inculcating & Developing Entrepreneurial Attitude (Need of 21 st Century)	19-23 July, 2004	SBSCET, Ferozepur
6	Computer Aided Design conducted by NITTTR,CHD	14-18 March, 2005	SBSSTC, Ferozepur
7	Mathematical Modelling of Real Life Problems	4-15 Jul, 2005	IIT, Roorke
8	Computational Mathematics	12-31 Dec, 2005	TIET, Patiala
9	Matlab conducted by NITTTR,CHD	30 Jan-03 Feb, 2006	SBSSTC, Ferozepur
10	Advanced AUTOCAD conducted by NITTTR,CHD	27 Feb-03 Mar, 2006	SBSSTC, Ferozepur

11	Numerical Computations Using Software Tools	14-18 July, 2007	IIT, Roorke
12	Study Group Meeting on Industrial Problems	16-21 Mar, 2009	IIT, Roorke
13	Multi-Criteria Optimization Tools in Research (AICTE sponsored Two week FDP)	21 May-1 Jun, 2012	SBSSTC, Ferozepur
14	Engineering Materials (TEQIP II sponsored one week FDP)	17-21Dec, 2012	SBSSTC, Ferozepur
15	Leadership and Team Building	24-28 Jun, 2013	IIM, Calcutta
16	Nature Inspired Computational Intelligence (AICTE –TEQIP sponsored Two week FDP)	6-17 May, 2013	SBSSTC, Ferozepur
17	Role of Communication, Motivation & Team Building in Enhancing the Performance of Teachers (One Day workshop under TEQIP II)	25 May, 2013	SBSSTC, Ferozepur
18	New Computing & Emerging Technologies in ICT (TEQIP II sponsored one week FDP)	26-30 Aug, 2013	SBSSTC, Ferozepur
19	Soft Skills for Technical Teachers (TEQIP II sponsored one week FDP)	2-6 Sep, 2013	SBSSTC, Ferozepur
20	Managerial Skills (TEQIP II sponsored one week FDP) conducted by NITTTR, CHD	9-13 Sep, 2013	SBSSTC, Ferozepur
21	Strengthen Industry Institute Interaction (TEQIP II sponsored one week FDP) conducted by NITTTR, CHD	23-27 Sep, 2013	SBSSTC, Ferozepur
22	Futuristic Materials (TEQIP II sponsored one week FDP)	30 Sep-05 Oct, 2013	SBSSTC, Ferozepur
23	Mathworks training on MATLAB Fundamentals, Simulink for System and Algorithm Modeling, Physical Modeling of Multidomain Systems with Simscape, Physical Modeling of Power Electronics with SimPowerSystems (Conducted by Mathworks company)	25-29 Nov, 2013	SBSSTC, Ferozepur
24	Modern Office Management & RTI Act Organized by National Productivity Council	9-13 Dec, 2013	NPC Goa
25	Analytical Techniques for Detection of Environmental Pollutants (TEQIP sponsored Two week FDP)	16-27 Dec, 2013	SBSSTC, Ferozepur
26	Training in Excellence, A Prog. of Art of Living	13-17 Feb, 2015	SBSSTC, Ferozepur

27	3 Day Lecturer Prog. on Mathematical Modelling of Biological Systems	2-4, April, 2015	University of Kashmir, Kashmir
28	10 Days FDP on Research Technique Organised by Dept of Mech Engg and sponsored by AICTE and TEQIP II	May 25 th -June 5 th 2015	SBS STC, Ferozepur
29	Participated Indo-Australian workshop	12-14 April, 2007	IIT, Roorkee
30	Participated in Int conf on Information and Mathematical sciences	Oct 24-26, 2013	Baba Farid College of Engg & Tech. Bathinda
31	Participated National Workshop on Advances and Applications of Mathematical Modelling	2-3 Feb, 2013	

Annexure-C

Main Extra-Curricular Activities organized

Annexure-D

Main Curricular and Co-Curricular Activities Organized