Maharaja Surajmal Institute

Affiliated to GGSIP University & NAAC 'A' grade accredited.
Rated as Category 'A+' by SFRC & 'A' by JAC Govt. of NCT of Delhi
Recognised U/s 2(f) of UGC Act

Faculty Profile

1. **Name of Faculty**: Dr. Vijay Dahiya

2. **Employee ID: BBA028**

3. **Date of Joining:** August 01, 2006

4. **Post at the time of Joining:** Lecturer

5. **Present Position:** Associate Professor

6. **Since when in Present Position:** November 17, 2015

7. **Department: Department of Business Administration**

8. **Personal Details:**

Date of Birth	15/12/1981
Father's Name	Sh. Surender Dahiya
Address	H. No. 2130, Sector-23, Sonipat
Mobile No.	9911552416
Email ID.	vijaydahiya@msi-ggsip.org
Nationality	Indian

9. **Educational Qualification since High School or Matric (Also specify GATE/NET qualified, if any)**

S No.	Degree/Diploma/Certificate or other specialised education obtained	College and/ or University	Year	Percentage	Division	Mode of Education **Regular** or **Distance**
1	10th	Board of school Education Haryana	1995	56.16%	Second	Regular
2	12th	CBSE	1998	57.8%	Second	Regular
3	B.Sc	Hindu College Sonipat, M.D.University, Rohtak	2001	70.68%	First	Regular
4.	M.Sc (Mathematics)	Department of Mathematics, Kurukshetra, K.U. Kurukshetra	2003	62.5%	First	Regular
5	P.hd (Mathematics)	Department of Mathematics, DCR University of Science & Technology, Murthal.	2013			Distance
6	CSIR (UGC-NET)	JRF qualified(Mathematics)	2004			Qualified
7	GATE	Mathematics	2004	Qualified with 89.16 Percentile		Qualified

10. Employment Record

S No.	From [Month & *Year*]	To [Month & *Year*]	Employer Name	Positions Held	No of Years
1	August 02, 2004	July 31, 2006	B.M.I.E.T, Sonipat	Lecturer	Two Years
2	August 01, 2006	November 17, 2015	Maharaja SurajmaL Institute	Assistant Professor	Nine Years and Three Months
3	November 18, 2015	Continuing	Maharaja SurajmaL Institute	Associate Professor	Eight Years

11. Patent/Copyright

S No.	Title of Patent/Copyright	Applicants	Patent /copyright number and Year
	----------Nil-----------------------		

12. Sponsored Project/Consultancy

S No.	Title of Project/Consultancy	Applicants	Sanctioned Amount	Sponsoring Agency	Duration of the project specifying the date of sanctioning
	---------Nil-----------				

13. Research Papers in National and International Journals

S No.	Title of Paper (Vol and Page No.)	Name of Journal	National/ International	SCI/SCIE/SSCI/ESCI	Scopus/ Journals of UGC listed	Year of Publication	Impact Factor	No. of Citations
1.	Increasing Significance of Market Research and Competitive Analysis	pg. 22-31, Vol-06: Issue:01 Jan-2023 to June-2023, Parichay Maharaja Surajmal Institute Journal of Applied Research, ISSN(O): 2581-7515	National			2023		
2.	Application of Optimization Techniques in the Dairy Supply Chain: A Systematic Review	Logistics 2022, 6, 74. https://doi.org/10.3390/logistics6040074	International		Scopus	2022		
3.	Agnipath: A New Horizon	© October 2022| IJIRT | Volume 9 Issue 5 | ISSN: 2349-6002	National		Journals of UGC listed	2022		
4.	Labour Law Reforms a Critical Analysis	Parichay: Maharaja Surajmal Institute	National			2020		
5.	Elementary Education in India:	Parichay:	National			2020		

No.	Title	Journal	Level		Type	Year			
	Understanding a Subsist Education Structure	Maharaja Surajmal Institute							
6.	Retainer of Mathematics Instead of Proficient	International Journal of Scientific Research in Mathematical and Statistical Sciences	International		Journals of UGC listed	2019			
7.	"Source coding based on binary tree,"	International Journal of Advanced Research and Development	International		Journals of UGC listed	2017			
8.	Data Envelopment Analysis And Concepts Of Effectiveness, Efficiency And Productivity, Vol. 4, No.1 (Jam-June 2015)	American Journal of Mathematics and Mathematical Sciences	International		Refereed Journal	2015			
9.	A linear programming based solution for problems of traffic & transportation sector, Vol. 1 Issue 10, December 2015	International Journal of Multidisciplinary Research and Development	International		Refereed Journal	2015			
10.	"Geometrical mesh Spline Approximation Methods for Linear Singularly Perturbed Parabolic Equations with Cylindrical and Spherical Coordinates",	Global International Research Thoughts International Journal,	International		Refereed Journal	2015			
11.	Exploring B-spline functions for numerical solution of mathematical problems, Vol. 1 Issue 10, December 2015	International Journal of Multidisciplinary Research and Development	International		Refereed Journal	2015			
12.	Why Study Mathematics? Applications of Mathematics in Our Daily Life, Vol. 1 Issue 10, December 2014	IJISET - International Journal of Innovative Science, Engineering & Technology	International		Refereed Journal	2014			
13.	Analysis of Lagrange Interpolation Formula, Vol. 1 Issue 10, December 2014	IJISET - International Journal of Innovative Science, Engineering & Technology	International		Refereed Journal	2014			
14.	Contribution of Motivational Aspects and pedagogy in relevance to higher Education, July-Dec. 2014, Vol.4(1),pp-109-116	The Educand, Journal of Humanities and social Sciences	National		Refereed Journal	2014			
15.	"B-spline Methods for Numerical Solution of Partial Differential Equation",	Global International Research Thoughts International Journal	International		Refereed Journal	2014			
16.	New Paradigms For Quality	American	International		Refereed	2014			

S No.	Title	Journal	National/International				Year		
	Teaching And Motivational Aspects In Higher Education, Vol. 2, No. 2	Journal of Mathematical Science and Applications				Journal			
17.	Cubic Spline Iterative Method for Poisson's Equation in Cylindrical Polar Coordinates, Vol. 2012, Article ID 234516, 11 pages	ISRN Mathematical Physics	International	ESCI	Scopus	2012		02
18.	Spline in Tension Methods for Singularly Perturbed One Space Dimensional Parabolic Equations with Singular Coefficients, Vol. 20, pp. 81-92	Neural, Parallel, and Scientific Computations	International	ESCI	Scopus	2012		02
19.	Spline in Compression Methods for Singularly Perturbed 1D Parabolic Equations with Singular Coefficients, Vol. 2, pp- 70-77	Open Journal of Discrete Mathematics	International	ESCI	Scopus	2012	Impact Factor : 0.74	02
20.	An $O(k^2 + kh^2 + h^4)$ Accurate Two-level Implicit Cubic Spline Method for One Space Dimensional Quasi-linear Parabolic Equations, Vol. 01, pp. 11-17	American Journal of Computational Mathematics	International	ESCI	Scopus	2011	Impact Factor : 0.67	08
21.	Cubic Spline Method for 1D Wave Equation in Polar Coordinates, Vol. 2012, Article ID 302923, 6 pages	ISRN Computational Mathematics	International	ESCI	Scopus	2011		02

14. Research Papers presented in Conferences/ Seminars

S No.	Title of Paper	Name of Conferences/ Seminars	National/ International	Name of Host Institution	Year
1.	Artificial Intelligence Integrated Queuing Model for the Dairy Industry: A conceptual Approach	1st International Conference on Mathematical and Statistical Sciences(ICMSS-1)	International	Faculty of Health, NaturalResourcesand Applied Sciences, Department of Mathematics, Statistics and Actuarial Science, **Namibia University of Science and Technology**	3-4 July, 2023
2.	The Digital Transformation of the Dairy Industry eith Artificial Intelligence: A systematic and Bibliometric Analysis	1st International Conference on Mathematical and Statistical Sciences(ICMSS-1)	International	Faculty of Health, NaturalResourcesand Applied Sciences, Department of Mathematics, Statistics and Actuarial Science, **Namibia University of Science and Technology**	3-4 July, 2023
3.	Lagrange Interpolation and Secret Shearing scheme	Presented in a International Conference on "Current Trends in Theoretical and Computational Differential Equations with Applications	International	Department of mathematics, South Asian University, New Delhi, December 01-05, 2017	2017

4.	Green marketing–A changing concept in changing time"	presented in a, HSB 7TH Annual National Conference on Business and Management,	National	organized by Haryana School of Business, Guru Jambheshwar University of Science & Technology, Hisar (Haryana), February 12-13, 2015.	2015
5.	"Spline Methods for Linear Singularity Perturbed Parabolic Equation with Cylindrical & Spherical Co-ordinates"	presented in a, National Conference on "Emerging Trends in Mathematical sciences(NCETMS-2015),	National	organized by Department of Mathematics, Chaudhary Devilal University, Sirsa, March 17-18, 2015.	2015
6.	A Survey of Transportation Problem	presented in a, National Conference Sponsored by ICCR on "Innovative Trends in Mathematical Sciences"	National	organized by Department of Mathematics & Humanities, Maharishi Markandeshwar University Mullana, Ambala (Haryana), March 30, 2015	2015
7.	"A Study on basic Hurdle Faced by Asian Countries for Sustainable Solid waste Management policies"	presented in a National Conference on "Innovations in IT, Management & Education-Digital India Inititative"	National	organized by Department of computer Application, Maharaja Surajmal Institute, New Delhi, March 21, 2015.	2015
8.	Solution of the non-Linear Singular Perturbed Equations by ADM"	presented in a, National Workshop on Emerging Trends in Sciences	National	organized by D.A.V. College(Lahore), Ambala City, February 12-14, 2015	2015
9.	"A Critical Appraisal of Traffic and Transportation Sector in Delhi and Possible Solutions",	presented in a, National Seminar sponsored by: Director General, Higher Education Haryana on Mathematics and its Interdisciplinary Application	National	organized by D.A.V. College, Pehowa (Kurukshetra), February 25-26, 2014.	2014
10.	"Pedagogy and Motivational Aspects in Higher Education"	presented in a National Seminar on Inclusive Education: Issues & Challenges Ahead	National	organized by C.R. College of Education, Rohtak, April 12, 2014	2014
11.	"A Critical Appraisal of Traffic and Transportation Sector in Delhi and Possible Solutions",	presented in a, National Seminar sponsored by: Director General, Higher Education Haryana on Mathematics and its Interdisciplinary Application	National	organized by D.A.V. College, Pehowa (Kurukshetra), February 25-26, 2014.	2014
12.	Application of Linear	presented in a, National Conference on Contours of Commerce Education	National	organized jointly by the Department of	2013

		in India		Commerce, M.D University, Rohtak and Haryana Chapter of Indian Commerce Association, May 12, 2013.	
13.	"Numerical Solution of Differential Equation Using B- Spline"	presented in a TEQIP sponsored workshop on Mathematical Modeling and Computational Techniques	National	organized by University Institute of Engineering and Technology, Panjab University Chandigarh, September 27-28, 2013.	2013
14.	Survey of Cubic Spline Function	Presented in a, National Workshop on "Mathematics and its Application	National	Department of Mathematics, Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Octobetr 18-19, 2012.	2012
15.	Importance of Business Mathematics in Management system	presented in a, National Conference on Emerging issues in Derivative markets in India	National	organized by Institute of Management Studies & Research in collaboration with Rohtak Matcom Education Society, Saturday, December 15, 2012.	2012

15. Books and Journals Published/Edited

S No.	Title of Book/Journal	Publisher	National/ International	Volume and Issue no. (in case of journal)	Year of Publication
1	Differential Equation & Its Applications	Serials Publication	International Publication (ISBN: 978-81-8387-755-8)		**2015**
2	Partial Differential Equation & Its Applications	Serials Publication	International Publication (ISBN: 978-81-8387-754-1)		**2015**

16. Book Chapters in National and International Books/Conference Procedding

S No.	Title of Chapter (Page No.)	Name of Book	National/ International	Year of Publication
1	Compression Function and Huffman Coding	National Conference, Paradigm Shift from Developing to Developed India through Digitalization	National	2017, Conference Procedding
2	The role of computers with special reference to mathematics in class room teaching: A pedagogy shift from " Computer Learning in Educational Curriculam"	Published in National Conference, Innovations in IT, Management & Education-Digital India Inititative	National	2015, Conference Procedding
3	Survey of Cubic Spline Function to Approximate the Solution of Mathematical	Published in National Conference, Innovations in IT, Management &	National	2015, Conference Procedding

		Education-Digital India Inititative			
4	"Make in India": A Judicious Mix of Economic Prudence and Administrative Reforms",	Published in National Conference on "Organizational Transformation in Merging Real and Virtual World" (OTMRVW)	National	2015, Conference Procedding	
5	Net Neutrality Discourses: Comparing Advocacy and Regulatory Arguments in India"	Published in National Conference on "Organizational Transformation in Merging Real and Virtual World" (OTMRVW).	National	2015, Conference Procedding	
6	Innovation on Internet and mobile Channels	Published in International Conference, Managing Innovation and Talent in the Highly Competitive Global Business Environment	International	2014, Conference Procedding	
7	Data Envelopment Analysis: A linear programming based solution for problems of traffic & transportation sector in Delhi	Published in International Conference, Innovative Entrepreneurship Minimize Carbon Footprint	International	2014, Conference Procedding	
8	On Inequality for A Class Of Self Inverse Polynomials	Published in International Conference. Emerging Trends in Computational and Applied Mathematics (ICCAM)	International	2014, Conference Procedding	
9	"Mathematics – A study begins with minuteness but ends in magnificence"	Published in International Conference. Emerging Trends in Computational and Applied Mathematics (ICCAM)	International	2014, Conference Procedding	
10	"Transient Solution of a Two-State Multiple Vacation Queuing Model with Arrivals and Departures in Batches of Variable Size"	Published in International Conference, Emerging Trends in Computational and Applied Mathematics (ICCAM), from 2nd June to 4th June, 2014.	International	2014, Conference Procedding	

17. Trainings and FDPs

S No.	Name of Training	Name of Training Institution, City	Type of Training and FDPs	Period	
				From	To
1	AICTE recognized FDP on Branding of Higher Education Institutes For Enhanced Outcomes	AICTE Training and Learning(ATAL), National Institute of Technical Teachers Training & Research, Chandigarh	Faculty development programme	13/09/2021	17/09/2021
2	AICTE recognized FDP on Optimization using MATLAB	Mechanical Engineering Department at NITTTR Chandigarh	Faculty development programme	16/12/2019	20/12/2019
3	Quality 4.0: An approach towards Innovative Pedagogy	organized by Maharaja Surajmal Institute, C-4 Janakpuri, New Delhi-110058,	Faculty development programme	15th July 2019	19th July 2019
4	Contemporary Issues	organized by Maharaja	Faculty development	05/02/2019	09/02/2019

	and Challenges in Management, Education & Information Technology	Surajmal Institute, C-4 Janakpuri, New Delhi-110058,	programme		
5	Contemporary Issues and Challenges in management education and information technology	organized by Maharaja Surajmal Institute, C-4 Janakpuri, New Delhi-110058,	One Week Faculty Development Programme	6th February, 2017	11th February, 2017
6	Research methodology and Data Analysis	organized by Maharaja Surajmal Institute, C-4 Janakpuri, New Delhi-110058,	Faculty Development Programme	16th December 2016.	23rd December, 2016.
7	Latex" through Spoken Tutorial Project	organized by Maharaja Surajmal Institute, C-4 Janakpuri, New Delhi-110058, during April 23 – 29, 2016.	One Week Faculty Development Programme	23 April 2016	29 April 2016
8	Orienting Teachers Attitude, Behaviour and Skills for Effective Teaching	organized by Maharaja Surajmal Institute, C-4 Janakpuri, New Delhi-110058, from 27th February – 7th March, 2015.	Faculty Development Programme	27 Feb 2015	7 March 2015
9	FOSS Tools in Higher Education"	conducted by Department of Electronics and Communication Engineering, B.P.S Mahila Vishwavidyalaya, Khanpur Kalan, Sonipat	Two week UGC Sponsored National Level Faculty Development Programme	24/02/2014	08/03/2014
10	Differential Equations, Computing and Modeling	organized by Department of Mathematics, University of Delhi, Delhi-110007	One week National workshop	20 December 2010	24 December 2010
11	Basic and Applications of MATLAB	organized by Department of Mathematics, D.C.R.U.S.T. Murthal, Sonipat-131039, Haryana.	One week Short term course	22 Feb 2010	26 Feb 2010
12	SPSS 16.0	SPSS South Asia University School of Management Studies, GGS IP University, New Delhi	Faculty Development Programme	07/10/2008	08/10/2008
13	Computational aspects of Mathematics	organized by Sant Longowal Institute of Engineering and Technology, Longowal-148106.	National level one week short term training	22 May 2006	26 May 2006

18. Conferences/ Workshops/ Seminars/Webinars Attended

Sr. No.	Name of Conferences/ Workshops/ Seminars	Name of Institution, City	Type of Conferences/ Workshops/ Seminars	Duration	
				from	To
1	National Webiner	Maharaja Surajmal Institute, New Delhi	National	28/07/2020	28/07/2020
2	Dismantling agrarian Economy and Perpetuating the Crisis	Maharaja Surajmal Institute, New Delhi	National	27/07/2020	27/07/2020

3	Artificial Intelligence with Machine Learning	Maharaja Surajmal Institute, New Delhi	National		22/07/2020	22/07/2020
4	National Conference on Emerging Trends in Big Data, IOT & Cyber Security	Maharaja Surajmal Institute, New Delhi	National		13/03/2020	14/03/2020
4	Quality Assurance in Higher Education: Practices & Issues	Maharaja Surajmal Institute, New Delhi	National		16/05/2019	17/05/2019
5	Life Management Program for Youth (LMPY) Workshop	Maharaja Surajmal Institute, New Delhi	National		21/01/2017	21/01/2017
6	Organizational Transformation in Merging Real & Virtual World	Maharaja Surajmal Institute, New Delhi	National		25/04/2015	25/04/2015
7	Joyful Learning: Prospects and Challenges	Maharaja Surajmal Institute, New Delhi	National		29/03/2014	29/03/2014
8	NCITIPM-2K14: Innovative Trends in Information, Processing & Management	Maharaja Surajmal Institute, New Delhi	National		15/03/2014	15/03/2014
9	Emerging Paradigms in Management in the Era of Globalization	Maharaja Surajmal Institute, New Delhi	International		01/03/2014	01/03/2014
10	Revitalizing Teacher Education for the New Millennium Issues and Challenges	Maharaja Surajmal Institute, New Delhi	National		18/03/2013	18/03/2013
11	Recent Trends in Mobile & Web Technology, FDP	Maharaja Surajmal Institute, New Delhi	National		10/03/2012	10/03/2012
12	Human Values and Professional Ethics: A One Day Workshop	Maharaja Surajmal Institute of Technology FDP, New Delhi	National		04/02/2012	04/02/2012
13	Effective Teaching Through Case Study Methodology, FDP	Maharaja Surajmal Institute FDP, New Delhi	National		21/01/2012	21/01/2012
14	Strategic Management in the Emerging Global Scenario & Corporate Governance- The Way Ahead, FDP	Maharaja Surajmal Institute FDP New Delhi ,	National		26/11/2011	26/11/2011
15	Changing Paradigm in Teacher Education in the light of NCFTE – 09	Maharaja Surajmal Institute, New Delhi	National		04/03/2011	04/03/2011
16	Managing Odds Through Innovation	Maharaja Surajmal Institute, New Delhi	National		22/05/2010	22/05/2010
17	Emerging Trends in Technical Education	Maharaja Surajmal Institute of Technology, New Delhi	National		08/05/2010	08/05/2010
18	Contemporary Issues & Challenges in Management	Maharaja Surajmal Institute, New Delhi	National		03/04/2010	03/04/2010
19	National Workshop on Engineering Applications of Mathematics	Deenbandhu Chhotu Ram University of Science & Technology, Murthal	National		18/12/2008	19/12/2008
20	National Seminar on Right to Information Act,	Maharaja Surajmal Institute, New Delhi	National		10/02/2007	10/02/2007
21	National Seminar on Management of Human Resources,	Maharaja Surajmal Institute, New Delhi	National		11/03/ 2006	11/03/ 2006

19. Research Scholars (M.Tech/ M.Phil/Ph.D. Thesis Supervised)

S. No.	Full Name of the student	Title of Thesis	Name of the host University	Year of Awarded	Supervisor/ Co-supervisor
	-------Nil-------------				

20. Membership of Professional Bodies

S No.	Name of the Professional Body	Member/Fellow	Remarks
	------------------Nil--------------------		

21. Any other information which is relevant

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Certification

I certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.

Signature:_____

[Name and Signature of Faculty]

Name: Dr. Vijay Dahiya

Date & Place: 14/12/2023, New Delhi