Faculty Profile

1. Name: Dr. Ram Prakash Somani



- 2. Designation: Associate Professor
- 3. Department: Mathematics
- 4. Educational Qualification:

Level	Name of University/Board	Year	Title/ Remark/ Medal
Secon dary	Rajasthan Board	1984	I Division
Hr. Secon dary	Rajasthan Board	1985	I Division
B.Sc.	MDS University, Ajmer	1988	I Division
M.Sc. (Mat hs)	MDS University, Ajmer	1990	I Division
Ph.D.	Banasthali Vidyapeeth	1999	Graphs, Rings and Coloring

5. Experience: Teaching / Research up to 2021

UG 28	PG	28	Research	
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- 6. Membership (Academic Bodies/ Research societies):
 - (a) Member of BoS University of Kota
 - (b) Member of Rajasthan Ganita Parishad
 - (c) Member of Indian Mathematical Society
- 7. M.O.O.C (Developed by Faculty): Nil
- 8. Awards Received: 'For outstanding performance and for being among the 6 top candidate in Mathematics in the joint CSIR-UGC Eligibility Test for JRF and Lectureship, 1990' given by CSIR HRD.

9. Academic Course	es Attended:	-	
Course	Place	Sponsoring Agency	Duration
Orientation Course	ASC Univ of Rajasthan, Jaipur	UGC	26-03-2001 to 21-04-2001
	ASC Univ of Raj, Jaipur	UGC	27-11-2000 to 16-12-2000
Refresher	ASC Goa University, Panji	UGC	25-02-2005 to 17-03-2005
	ASC JNV Univ Jodhpur	UGC	05-09-2005 to 24-09-2005
Others (Workshop/ Summer School/ Camp etc.)			
Online F.D.P (Faculty Development Programme)	NEP PDP Online at Kota	IGNOU	12-06-2023 to 20-06-2023
Search and Rescue Course	NAGPUR	National Civil Defence College	January 10-16, 2007
Pre Commission Course	Kamptee, Nagpur	NCC OTA	20-11-2006 to 17-02-2007
Refresher Course NCC	Kamptee, Nagpur	NCC OTA	26-10-2009 to 24-11-2009

10. Seminar/ Conference :

Name of Symposium/ Seminar/Conference	Internatio nal/ National/ Regional	Organized By	Title of Paper presented	Year	Торіс
9 th Annual Conf of Rajasthan Ganit Parishad	National	Banasthali Vidyapith		Feb 8-9, 1997	Demands from a Mathema tician in Present day Technolo gy and Society

College & University Teacher Conference	National	EDUCATION WING, RERF & B K Ishwariya Vishwa Vidyalaya, Mount Abu		June 12-15, 2004	New Knowled ge for a New Culture
Seminar	National	Banasthali Vidyapith		March 5-6, 2006	Recent Trends in Combina orics and its Applicat ons
17 th Annual Conference of RGP	National	Dept. Of Maths, Govt Meera Girls College, Udaipur		Februar y 10-11, 2006	Mathema tical Modellin g
19 th Annual Conference of RGP	National	Dept. Of Maths, Jaipur Engineering College, Jaipur	Graceful Labeling of Some Trees	January 18-19, 2008	Numeric: I Techniqu es and Their Applicati ons in Maths
20 th Annual Conference of RGP	National	Dept. Of Maths,	Various Types of Magic Square and their Construction Method	January 18-19, 2009	Emergin Fields in Mathema tics and their Interdisc plinary Uses
Seminar	Regional	S K Govt. P.G. College, Sikar		January 12, 2013	APQR and ARS
Seminar	Regional	S K Govt. P.G. College, Sikar		January 27, 2013	APQR and ARS
Workshop		DCE and Spoken Tutorial, IIT Mumbai		January 9, 2014	Smart/ E-Class
26 th Annual Conference of RGP	National	University College of Engineering, RTU, KOTA		Februar y 23-24, 2015	Computa tional Mathema tics in Engineer

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Conference	National	Career Point University, KOTA	Some generating relations associated with extended Gamma and Beta functions	June 19-20, 2015	Advanced Trends in Compute r Science & Mathema tical Techniqu s
Seminar	National	Vivekanand Shodhpith, University of Kota, KOTA	Science and Spirituality in Present Perspective	Septemb er 19-20, 2017	Science, Spirituali ty and Vivekana nda
Seminar	State	Itihas Sankalan Samiti, Kota		Septemb er 30, 2017	Ancient Indian Literatur e Heritage - History Writing
Workshop	Division	YDC, Govt. College, KOTA		October 24, 2017	Our role in Cleanling ss and Road Safety and Youth
Seminar	State	RUCTA(R) Govt. College, KOTA		Septemb er 26, 2018	Inter Relations hip of Knowled ge & Languag
Workshop	National	DST and JDB Govt College, KOTA		Februar y 19, 2020	Intellectu al Property Rights and Awarenes s
National Webinar	National	Dept of Computer Sc and Info, UoK		June25, 2021	Online Teaching Learning Cyber Security Issues & Challeng s

National Workshop	National	Govt College, Kota		Februar y 22-26, 2022	Operatio n and Maintena nce of Laborato ry Equipme nt
National Seminar	National	Dept of Maths, Govt College, Kota	Different type of Matrices Associated with Graphs and Their Applications	October 7, 2022	Interdisci plinary Applicati ons of Mathema tics
National FDP/SDP Conclave	National	RERF and PBKIVV, ORC, GURUGRAM		29-09-23 to 01-10-23	Educator s - Creating Leaders for Future
National Conference	National	Dept of Chemistry, Govt College, Kota	Topological Indices of Mephedrone	6-7 October 2023	Recent Advances in Science and Technolo gy

11. Organizing Sec./Convener of conference/seminar/webinar :

Conference/Seminar Title	Year
Interdisciplinary Applications of Mathematics (Organizing Secretary)	2022

12. Resource Person:

In training Programme	Mathematics Teaching in School Education (07.01.2022), Orientation Course for School Teacher, District Coordinator, DIET Kota
In conferences/Seminars (Chair/Co-Chair/of Session)	Workshop on Question Repository (Maths) Feb 6-8, 2014 VMOU, KOTA
Invited Talk	Yoga and Tension Management (15.09.2022), Women Cell, Govt College, Kota

13. Research Publications:

Title of Paper	Name of Journal with Impact factor	ISSN No. and UGC No. with Year		Impact Factor	0	
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Various Graphical Representation of Commutative Rings	The Mathematics Education	0047-6269 Vol XLI, No.2, June 2007		
Relationship between Partition of Natural Number and Complete Binary Tree	The Mathematics Education	0047-6269 Vol XLII, No.1, March 2008		
On Certain Class of Euler Type Integrals Involving Extended and Multiparameter Hurwitz Lerch Zeta Functions	South East Asian Journal of Mathematics and Mathematical Sciences	0972-7752 Vol.12, No.1, April 2016		
Laplace-Decomposition Methods to Study Solitary Wave Solutions of Coupled Non Linear Partial Differential Equation Vol 5, No.1 January 2018 pp: 17-22	Journal of Emerging Technologies and Innovative Research	2349-5162	7.95	
A Description of Non-Linear Wave Equations by Homotopy Analysis Transform Method Vol 8, No. 6, June 2020 pp: 4833-4839	International Journal of Creative Research Thoughts	2320-2882	7.97	
Topological Indices Of Zero Divisor Graphs And Their Compliments Vol 10, No. 12, December 2021 pp: 7751-7755	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	E-2278-8875 P-2320-3765	8.317	
Introducing New Exponential Gourava Indices for Graphs Vol 11, No. 3, May-June 2023 pp: 1-5	International Journal of Mathematics and Statistics Invention	2321 - 4759		
SPECTRAL AND TOPOLOGICAL CHARACTERISTICS OF INSECTILE GRAPH Vol 10, No. 6, June 2023 pp: i35-i44	Journal of Emerging Technologies and Innovative Research	2349-5162	7.95	
SOME NEW GRAPH OPERATIONS AND THEIR FIRST AND SECOND ZAGREB AND GOURAVA INDICES Vol 10, No. 8, August 2023 pp: d567-d577	Journal of Emerging Technologies and Innovative Research	2349-5162	7.95	
HIGHWAY CONNECTIVITY OF TIER 2 CITIES OF RAJASTHAN USING CONNECTIVITY AND	INTERNATIONAL JOURNAL OF RESEARCH AND	E-ISSN 2348-1269, P- ISSN	7.17	

TOPOLOGICAL INDICES Vol 10, No. 4, October 2023 pp :501-509	ANALYTICAL REVIEWS	2349-5138		
HIGHWAY CONNECTIVITY OF TIER 2 CITIES IN RAJASTHAN AND NEIGHBOURING STATES: A STUDY USING CONNECTIVITY AND TOPOLOGICAL INDICES Vol 10, No. 12 Dec 2023 pp: a549-a562	Journal of Emerging Technologies and Innovative Research	2349-5162	7.95	
Vol 9, No 4 April 2024 pp:21-26	International Journal of Innovative Science and Research Technology	2456-2165	7.176	

14. Research Projects:

Title of the Project	Year	Name of funding agency	Fund available/ utilized	Present status
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15. Research Supervision:

Basic Field of specialization: Discrete Mathematics, Functional Analysis

🖶 Ph.D.

Name of Student	Title of thesis	Present status	Date and Year of Award, if so
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🛱 M. Phil.

Name of Student	Title of Dissertation	Present status	Date and Year of Award, if so
Chanchal Sharma	A Study of Graph Theory and its Applications in Algebra	AWARDED	2005
Devendra Singh Rajawat	A Study of Graph Theory and Various Types of Labelled Graphs	AWARDED	2007
Ritesh Agarwal	Characterization of Matrices and Magic Labelling of Graphs	AWARDED	2007
Bhawana Agarwal	Solving Differential Equations Using Symmetry Groups	AWARDED	2008
Mamta Verma	A Study of Various Types of Magic Squares	AWARDED	2008
Monika Jain	Squaring the Plane	AWARDED	2009

Surendra Nagar	A Study of Coloring, Matching & Covering of Graphs	AWARDED	2010
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16. Monograph/ Book / Chapter (in Edited Book)/Chapters in study material of Open universities

Title of Book	ISBN/ ISSN No.	Publisher with Place	Year of Publication

Book (Single Author)

• Chapter(s) in Book (Edited / multi-author)

Title of Chapter	Authors / Editors	Name of the Book with ISBN/ ISSN No.	Publisher with Place	Year of Publication
COORDINATE GEOMETRY (2D)	ARUN KUMAR, R P SOMANI, MANISH GAUR, G S SISODIA	ISBN: 81-8142-15 4-X	R B D PUBLISHING HOUSE, JAIPUR	2018
INTEGRAL CALCULUS	SANJAY JAIN, R P SOMANI, MANISH GAUR, YOGESH SHARMA	ISBN: 81-8142-15 1-5	R B D PUBLISHING HOUSE, JAIPUR	2018

- 13 Extra Curricular Activities:
- **14** Collaborations and associations
- 15. Any Other Relevant Information/Contributions

Nodal Officer of

- (a) Incharge, Exam Cell
- (b) AISHE
- (c) Sampark Portal