


# Multanimal Modi College

Modinagar-201204 (U.P.)

(Affiliated to Ch. Charan Singh University, Meerut)

(For Teaching Staff)

Title	Mr.	First Name	Yogesh	Last Name	Kumar	Photograph
Designation		Assistant Professor				
Department		Department of Physics				
Address (Residence)		142/8, Double Storey Govindpuri, Modinagar, Pin Code-201201				
Phone No (Campus)		-				
(Residence) optional						
Mobile		8791747459				
Fax		-				
Email		yogeshkumar@mmcmadinagar.ac.in				
Web-Page		-				

## EDUCATIONAL QUALIFICATIONS

Course	Institution	Year	Details
<b>Ph.D.</b>	UGC-DAE CSR, Indore	Pursuing since 2017	Thesis title “Growth, structural and magnetic properties of thin films: 3d transition metal based alloys and compounds”
<b>M.Sc.</b>	Ramjas College (University of Delhi)	2017	Subject: Physics
<b>B.Sc. (Hon.)</b>	Ramjas College (University of Delhi)	2014	Subject: Physics

## CAREER PROFILE

Organization / Institution	Designation	Duration	Role(s)
Multinimal Modi College, Modinagar (Affiliated to C.C.S. University, Meerut)	Assistant Professor	3 Months (Since 6 <sup>th</sup> August 2022)	Teaching and Research, Admission Committee, Various departmental committees

### Research Interests / Specialization:

Condensed Matter Physics, Thin films, Sputtering, Magnetism

### Teaching Experience (Subjects /Courses Taught): 3 Months

**Undergraduate Level:** Electricity and magnetism Practical

**Post Graduate Level:** Quantum mechanics, Electronics (Special Paper-II)

**Orientation Courses/Refresher Courses/FDP:****Honors & Awards:**

- Awarded CSIR-JRF Fellowship in June 2016 (**Rank: 039**).
- Received financial support from JNCASR, Bengaluru under the “DST Synchrotron-Neutron Project” to carry out  $\mu$ -SR measurements at **Paul Scherrer Institute, Switzerland** (July 18-24, 2019).

**Publications (Last FIVE (05) Year Publications,**

Year of Publication	Title	Journal/Book(s)	Co-Author(s)

**Conference/Seminar/Workshop Presentations: National / International**

S. No.	Title of Paper Presented	Title of Conference/Seminar	Organized by	Date	National/International
1.	Study of Cobalt Mononitride Thin Films Deposited Using Different Sized Magnetron Sources and Effect of Carbon	63 <sup>rd</sup> DAE Solid State Physics Symposium	BARC, Mumbai at GJUST, Hisar, Haryana	18-22 December, 2018	National
2.	Effect of Process Parameters on Phase Formation of Cobalt Mononitride Thin Films	64 <sup>rd</sup> DAE Solid State Physics Symposium	BARC, Mumbai at IIT, Jodhpur	18-22 December, 2019	National
3.	X-ray absorption study of manganese mononitride thin films	65 <sup>rd</sup> DAE Solid State Physics Symposium	BARC, Mumbai	15-19 December, 2021	National
4.	Effect of Carbon Doping on Thermal Stability of CoN Thin Films	Indus Synchrotrons User's Meeting (ISUM-1)	UGC-DAE CSR, Indore	27-29 March, 2019	National
5.	X-ray absorption spectroscopy study of cobalt mononitride thin films	Indus Synchrotrons User's Meeting (ISUM-2)	RRCAT, Indore & UGC-DAE CSR, Indore	28-20 July, 2020	National

**Publications in Indexed/ Peer Reviewed Journals:**

<b><u>Year of Publication</u></b>	<b><u>Title</u></b>	<b><u>Journal</u></b>	<b><u>Author</u></b>
2022	Thermal stability of the magnetic moment in amorphous carbon thin film-An experimental and ab-initio study	Diamond and Related Materials	Balaram Thakur, Sharat Chandra, <b>Yogesh Kumar</b> , Mukul Gupta, UP Deshpande, NV Chandra Shekar, Sujay Chakravarty
2022	Investigating the effect of thickness on the structural and magnetic properties of carbon thin film	Carbon	Balaram Thakur, <b>Yogesh Kumar</b> , Mukul Gupta, UP Deshpande, NV Chandra Shekar, Sujay Chakravarty
2022	Study of Niobium Mononitride Thin Films Grown Using High Power Impulse Magnetron Sputtering	physica status solidi (RRL)–Rapid Research Letters	Shailesh Kalal, <b>Yogesh Kumar</b> , Suman Karmakar, Surbhi Gupta, Joseph Vimal Vas, Rajeev Rawat, Mukul Gupta
2021	Stabilizing effects of Ag doping on structure and thermal stability of FeN thin films	Journal of Physics: Condensed Matter	Niti, <b>Yogesh Kumar</b> , VR Reddy, Joseph Vimal Vas, Surbhi Gupta, Jochen Stahn, Ajay Gupta, Mukul Gupta
2021	Study of interface and its role in an unusual magnetization reversal in 57FeCoB/MgO bilayer	Hyperfine Interactions	Md Jamal, <b>Yogesh Kumar</b> , Mukul Gupta, Pooja Gupta, Ilya Sergeev, HC Wille, Dileep Kumar
2021	Study of carbon doped cobalt mononitride thin films	Applied Surface Science	<b>Yogesh Kumar</b> , Akhil Tayal, Wolfgang Caliebe, Mukul Gupta
2020	X-ray absorption spectroscopy study of cobalt mononitride thin films	SN Applied Sciences	Mukul Gupta, <b>Yogesh Kumar</b> , Akhil Tayal, Nidhi Pandey, Wolfgang Caliebe, Jochen Stahn

2020	Effect of process parameters on phase formation of cobalt mononitride thin films	AIP Conference Proceedings	<b>Yogesh Kumar</b> , Mukul Gupta
2019	Study of cobalt mononitride thin films deposited using different sized magnetron sources and effect of carbon doping	AIP Conference Proceedings	<b>Yogesh Kumar</b> , Nidhi Pandey, Mukul Gupta

<b>Projects (Major Grants / Collaborations)</b>				
<b>Name(s) &amp; Number(s) of PhD Students Supervised and Awarded with year:</b>				
<b>S.No.</b>	<b>Name of Ph.D Scholar</b>	<b>Date of Registration</b>	<b>Date of Award</b>	<b>Title of Thesis</b>
	NA			
<b>Any other information(s):</b>				

(Signature of Faculty Member)

(Signature & Stamp of Teacher In-Charge/Principal)