




## Faculty Details Proforma For College Web-site



<b>Title</b>	<b>Ms.</b>	<b>First Name</b>	<b>Manisha</b>	<b>Last Name</b>	<b>Meena</b>	
<b>Designation</b>	<b>Assistant professor</b>					
<b>Address</b>	<b>Department of Physics, DRC, UoD</b>					
<b>Phone No. Office</b>						
<b>Residence</b>	<b>Vpo – Boorthal, Tehsil – Bassi, 303012, District – Jaipur, State - Rajasthan</b>					
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<b>Web Page</b>						

### **Educational Qualification**

<b>Degree</b>	<b>Institution</b>	<b>Year</b>
B.Sc.	Saini Adarsh P.G. College, University of Rajasthan	2015
M.Sc. (Physics)	University of Rajasthan, Jaipur	2017
Ph.D. (pursuing in Physics)	IIT Bombay	2017 – till date (Thesis submitted)
UGC- JRF- NET in Physical Sciences		December, 2016

### **Career Profile**

<b>S. No.</b>	<b>Designation</b>	<b>Institution</b>	<b>Time Period</b>		<b>Nature of Appointment</b>
1.	Assistant Professor	Daulat Ram College, UoD	06.10.2022	Continuing	Permanent

### **Administrative Assignments**

<b>Academic Session</b>	<b>Society/Cell</b>	<b>Position Held</b>
2024**	Department of Physics, Daulat Ram College, UoD	Member, Department Time Table Committee
2023-24	National Service Scheme (NSS), Daulat Ram College, UoD	Member

2023-24	India Today ranking committee, Daulat Ram College, UoD	Member
2023**	Library committee, Daulat Ram College, UoD	Member

\*\*Ongoing

### Areas of Interest / Specialization

**Areas of Interest:** Classical Mechanics, Nuclear and Particle Physics, Mathematical Physics, High Energy Physics, Computer Programming Languages: Fortran, Python, Matlab, C, C++, Electrodynamics, Quantum Mechanics, Machine Learning, Computer Simulations and Coding, Radiation Physics, Accelerator Physics, Design and Simulations of Accelerator Components, Wastewater Purification using radiation.

**Specialization:** RF Design and Beam Dynamics Studies of a  $\beta = 1$ , 1.3 GHz Single Cell Accelerating Cavity for High Intensity Compact Superconducting Electron Accelerator (HICSEA) & Arsenic Removal from Wastewater by Electron Beam Irradiation

### Subjects Taught

#### B.Sc.(H) Physics:

**Theory:** Mechanics, Advanced mathematical physics - 1, Classical dynamics, Classical Dynamics Tutorial, Communication systems, Mechanics, Atomic-Molecular & Nuclear Physics.

**Laboratory course:** Advanced mathematical physics - 1, Statistical mechanics, Mechanics, Mathematical Physics – III, Modern Physics, Electrical circuit analysis, SEC: Computer Programming, SEC: Document preparation and presentation software, SEC: IT skills and data analysis-I.

### Research Guidance

NIL

### Publications Profile

1. Pankaj Kumar, Manisha Meena, Anjali Bhagwan Kavar, Pragya Nama, Abhishek Pathak, Raghava Varma, A.K. Satpathi, Abhay Deshpande, Tanuja Dixit, R. Krishnan, Chandrakant Nainwad "Experimental study to optimize the treatment efficacy of pharmaceutical effluents by combining electron beam irradiation with conventional techniques", Journal of Environmental Science and Health, Part A., (Submitted).

#### Conference Proceedings publication:

1. Meena Manisha, Abhishek Pathak, and Raghava Varma. "RF DESIGN, OPTIMIZATION AND MULTIPHYSICS STUDY OF A  $\beta=1$ , 1.3 GHz SINGLE CELL ACCELERATING CAVITY FOR HIGH-INTENSITY COMPACT SUPERCONDUCTING ELECTRON ACCELERATOR (HICSEA)." 31st Int. Linear Accel. Conf., ISBN: 978-3-95450-215-8 ISSN: 2226-0366, doi:10.18429/JACoW-LINAC2022-MOPOJO08.

- Pankaj Kumar, Manisha Meena, Sudipa Manna, A.K. Satpati, and Raghava Varma, 2023, "Electrochemical degradation of Poly-methylmethacrylate (PMMA) microplastic by photochemical route", Conference on Electrochemistry for Industry, Health and Environment (EIHE 2023), DAEBRNS 2nd International Conference, DAE Convention Centre, Anushaktinagar, Mumbai-400094, India.
- Manisha Meena, A.K. Satpati, Pankaj Kumar, and Raghava Varma, 2024, Poster presentation on "Arsenic Removal from Wastewater by Electron Beam Irradiation" at the International Conference On Materials And Membranes For Water And Energy (ICMMWE-2024) Organized by CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat, India.

### Conference Organization / Presentation (in the last three years)

- Indian Particle Accelerator Conference (**InPAC-2022**), at Variable Energy Cyclotron Centre, Kolkata in March 2022 on "RF design and optimization of a  $\beta = 1$ , 1.3 GHz single cell accelerating cavity for High Intensity Compact Superconducting Electron Accelerator (HICSEA)".
- Indian Particle Accelerator Conference (**InPAC-2022**), at Variable Energy Cyclotron Centre, Kolkata in March 2022 on "Multiphysics study of an optimized  $\beta = 1$ , 1.3 GHz single cell superconducting elliptical cavity".
- 31st Linear Accelerator Conference (**LINAC**), Liverpool (England) in September 2022 on "RF design, optimization and multiphysics study of a  $\beta = 1$ , 1.3 GHz single cell accelerating cavity for High-Intensity Compact Superconducting Electron Accelerator (HICSEA)".
- International Conference On Materials And Membranes For Water And Energy (ICMMWE-2024) Organized by CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat, India, Poster presentation on "Arsenic Removal from Wastewater by Electron Beam Irradiation".

Session	Event	Organized By	Role	Who was benefitted?	Duration
2023-24	One-Week Online National Faculty Development Program on "PCB Design & Fabrication"	University of Delhi (Skill Enhancement Course Committee) in collaboration with Daulat Ram College, University of Delhi (Department of Physics) and Guru Angad Dev Teaching Learning Centre, a Centre under PMMMNMTT, Ministry of Education, Government of India	Organizing Committee Member	Faculty Members across the Delhi University (~70)	17th July 2023 – 23rd July 2023
2024-25	Two Days In-house Skill Development Program (e-SDP) on Enhancing Online Learning Through ICT Tools	Physics Department, Daulat Ram College, UoD	Co-cordinator & Resource Person	Students (~40)	13 & 14 September 2024
2024-25	One week In-House Skill Development Program on Designing an Arduino-Powered Motion Detection System	Physics Department, Daulat Ram College, UoD	Resource Person	Students (~30)	15 <sup>th</sup> January 2025-23 <sup>rd</sup> January 2025

### Research Projects (Major Grants/Research Collaboration)

NIL

### Awards and Distinctions

- INSPIRE fellowship during 2013-2017 for completing graduation and post-graduation on the basis of marks in 12<sup>th</sup> board exam.

### Association with Professional Bodies

1. Lifetime member of “Indian Society of Particle Accelerators (ISPA)” since 2020.

### Other Activities

#### Workshop/ Seminar/ Conference Attended as Participant:

Session	Event	Organized By	From	To	Duration
1.	Webinar on National Education Policy 2020 on the theme “Internship/ Apprenticeship Embedded Degree Program”	Malaviya Mission Teacher Training Centre, University of Delhi	3 <sup>rd</sup> February 2024	3 <sup>rd</sup> February 2024	2024
2.	Inaugural Ceremony of Faculty Induction Programme "NEP2020: Pedagogical Imperatives of Higher Education"	Sports Complex, University of Delhi	1 <sup>st</sup> December 2023	1 <sup>st</sup> December 2023	2023

#### Faculty Development/Induction Programme/ Symposium/Workshop Attended as participant:

Session	Event	Organized By	Role	Duration
2022-23	Online National Faculty Induction Programme	Daulat Ram College and Guru Angad Dev Teaching Learning Centre, SGTBKC UoD under PMMMNTT MoE	Participant	25-Feb-23 to 27- Mar-23
2024-25	Zonal Championship Program & Hands on Workshop on “Artificial Intelligence in Lifesciences”	Daulat Ram College, UoD in association with Makeintern & E-Cell (IIT Hyderabad)	Participant	22 <sup>nd</sup> January 2025 - 24 <sup>th</sup> January 2025

