



Mehr Chand Mahajan DAV College for Women Sector-36 (Chandigarh)

<u>www.mcmdavcw-chd.edu</u> 0172- 2603355, 0172- 2624921

- 1. Name of the Department: Physics
- 2. Names of Programmes/Courses offered (UG, PG, M.Phil, Ph.D, Integrated Masters etc.)
 - i. B.Sc. Non medical
 - ii. B.Sc. Vocational
 - iii. B.Sc. Physics Hons.
- 3. Number of teaching posts:

Permanent				
Assistant Professor Dr. Renu Bala				
	Contractual			
Assistant Professors	1. Dr. Runjun Sarma			
	2. Dr. Pallavi Gupta			
	3. Dr. Ishita Sharma			
	4. Dr. Swati Khatta			
	5. Dr. Gurjit Kaur			
	6. Dr. Sandeep Kaur			

4. Details of Publications by the Faculty in the session: (Hard Copies of the Title Page of the

Journal/Contents and First page of the Paper to be collected by the HODs)

Permanent Faculty/ Contractual faculty	Title of Paper	Title of the Journal with ISSN	Mon th/ Year	PEER Reviewed/ Refereed	UGC/C ARE Enlisted (Yes/No)	URL
Contractual	Novel gold	Nanosystems:	Dece	PEER	Yes	http://nanojournal.
faculty	nanoparticle-	Physics,	mber	Reviewed		ifmo.ru/en/wp-
	protein- semiconducto	Chemistry,	2021			content/uploads/20
	r quantum dot	Mathematics				21/12/NPCM126P7
	hybrid system: synthesis,					49-762.pdf
	characterizati					
	on					
	and					
	application in					
	cancer cell					
	imaging					

Contractual	Conjugation	Nanosystems:	Augu	PEER	Yes	http://nanojournal.
faculty	of curcumin	Physics,	st	Reviewed		ifmo.ru/en/wp-
	with Ag	Chemistry,	2021			content/uploads/20
	nanoparticle	Mathematics				21/08/NPCM124P5
	for improving	Wathematics				28-535.pdf
	its					
	bioavailability					
	and study of					
	the					
	bioimaging					
	response					
Contractual faculty (Dr. Ishita Sharma)	Fusion dynamics of ¹⁶ O+ ^{72,76} Ge→ ^{88,92} Zr Reactions using Skyrme Energy Density Formalism	Journal of Physics: Conference Series 1742- 6596	22/0 4/20 22	Peer Reviewed	Yes	https://iopscience.i op.org/article/10.1 088/1742- 6596/2267/1/0120 90/pdf

5. Details of Publication of Books/Chapters in Books by the Faculty in the session (Hard Copies of the Title Page of the Journal/Contents and First page of the Paper/Book to be collected by the HODs)

Permanent Faculty/ Contractual faculty	Title of Book	Month/ Year	Name of the Publisher	National/ International	ISBN
Dr Renu Bala	Statistical Physics I	2021	Mahindra Publishing House	National	978-93-90758-27- 2
Dr Renu Bala	Statistical Physics II	2022	Mahindra Publishing House	National	978-93-90758-72- 2

Dr. Pallavi Gupta	Condensed	May	Mahindra	National	978-93-90758-37-
	Matter	2021	Publishing		1
	Physics -I		House		
			House		
	<u>, , , , , , , , , , , , , , , , , , , </u>			N	070 00 00750
Dr. Runjun Sarma	Vibrations,	May	Mahindra	National	978-93-90758- 32-6
	Waves & EM	2021	Publishing		
	Theory-I		House		
Dr. Runjun Sarma	Vibrations,	Jan	Mahindra	National	978-93-90758-80-
	Waves & EM	2022	Publishing		7
	Theory-II		House		
				N	070 00 00750 00
Dr. Swati Khatta	Mechanics-I	May	Mahindra	National	978-93-90758-28-
		2021	Publishing		9
			House		
Dr. Swati Khatta	Mechanics-II	Jan	Mahindra	National	978-93-90758-73-
Di. Swati Kilatta	Weenames-n			National	
		2022	Publishing		9
			House		
Dr. Ishita Sharma	Nuclear and	May	Mahindra	National	978-93-90758-42-
	Particle	2021	Publishing		5
	Physics-I		House		
	, <u>-</u> -				
Dr. Ishita Sharma	Nuclear and	Jan	Mahindra	National	978-93-90758-71-
	Particle	2022	Publishing		5
	Physics-II		House		
L		1	I	I	

6. Awards/ Recognitions received by faculty:

Name and Designation of	Name of the Award	Name of the	Month/Year
the Faculty		Agency	
Dr. Pallavi Gupta	Faculty Development Program on QUANTUM COMPUTING	IIIT Dharwad <u>.</u>	2021

Dr. Runjun Sarma	AICTE Training And	Punjab Engineering	12-7-2021 to 16-7-
	Learning (ATAL)	College (Deemed	2021
	Academy Online	to be University).	
	Elementary FDP on		
	"Nanotechnology for		
	Electronic and Photonic		
	Devices (NanoDev-		
	2021)"		
Dr. Runjun Sarma	Completed 200 hours of	INFOWIZ, A	March - May 2022
	ICT skill course on	Software solution,	
	"Course on Computer	Sector 34,	
	Concepts"	Chandigarh	

7. List of eminent Academicians and Scientists/ visitors to the department:

- Dr. Manas Kulkarni, Research Scientist at International Centre for Theoretical Sciences (ICTS), Bangluru delivered an educational lecture on "*Engineering Exotic States of Light and Matter*".
- Dr. Daljeet Kaur faculty at DAV University, Jalandhar talked about "Basics of Quantum Physics and Quantum Computers".

Student Enrichment Programmes organized by the Department

8. Seminars/Conferences organized by the department in the session: Kindly include the

sponsoring/funding agency:

Event: Seminar/ Conferences (National/Int ernational)	Date	Title of the Event	Name of the Funding Agency	Funds Received	No. of Students benefitte d
1. Webinar	23 rd May,	online webinar	Ministry of		119
	2022	"Awareness on IPR, IP	Commerce and		
		Management and	Industry,		
		Legal Framework	Government of		
			India		

2. Webinar	14 th May	online webinar	Institutions	Rs. 2000/-	67
		"Physics: Innovation-	Innovation		
		Startup-	Council (4.0), Mehr		
		Entrepreneurship	Chand Mahajan DAV		
			College for Women		
3. Webinar	24 th	Online Webinar on	MCM Vigyan Manch	Rs. 2000/-	73
	February	"Emerging Topics and	Sponsored by Department of		
	2022	Opportunities in	Science and		
		Physical Science	Technology, Chandigarh		
4. Webinar	7 th March	Innovation in	Women	Rs. 2000/-	82
	2022	Nanotechnology	Development Cell.		
5. Webinar	7 th March	Role of women in	Women	Rs. 2000/-	82
	2022	Science	Development Cell		
6. Webinar	7 th	The journey of the	Mehr Chand	Rs. 2000/-	50
	January	semiconductor	Mahajn DAV College for		
	2022	transistors and	Women, Sector 36,		
		Moor's Law	Chandigarh		
7. Seminar	21 st May,	Basics of Quantum	Mehr Chand	Rs. 2000/-	153
	2022	Physics and	Mahajn DAV College for		
		Quantum Computers	Women, Sector 36, Chandigarh		
8. Seminar	21 st May,	Engineering Exotic	Mehr Chand	Rs. 2500/-	153
	2022	States of Light and	Mahajn DAV College for		
		Matter	Women, Sector 36, Chandigarh		

17. Skill-based Workshops/ Extension Lectures/Panel Discussions organized by the department in

the session:

Title of the Workshop/ Extension Lectures/Panel Discussions	Date	Objective	No. of Students benefitted
Collage making	14 th December	Save Energy, Save Future	35
competition	2021		

Poster Making	14 th May 2022	Physics in everyday life
Essay Writing	14 th May 2022	Women in Science
Physics Quiz	14 th May 2022	Fundaments of Physics & Science
Power Point presentations	14 th May 2022	Indian Scientists and their contributions
Innovative Working Models	17 th May 2022	
Scientific Rangoli	21 st May 2022	

Projects/ Awards/Positions bagged by students:

Event	1 st position	2 nd Position	3 rd position	Consolidated	Class
Poster making	Aditi	Samridhi	Jashanpreet Kaur	-	B.Sc. I (NM)
Essay writing	Avneet	Ashneet	Harshdeep	-	B.Sc. I (Voc)
Physics Quiz	Shruti, Harsha Saini, Preeti, Farhat Khan	Tamanna, Jahnvi, Kamanshi	Simran Kaur, Pooja, Rizul Singla, Aditi Aggarwal, Diksha	-	B.Sc. II (NM)
PPT making	Tushar	Manya	Kavita	-	B.Sc. II (Voc)
Innovative working model	Supreet Kaur, Harsimran, Ravneet, Isha Gupta	Isha, Tanya, Anjali, Garima	Arushi, Dainty, Harneet, Khushboo	Annaya, Yukta, Aditi, Varnika, Mehaknoor, simran, bhavna, nitika, Komoljoot	B.Sc. III (NM)
Rangoli Making	Gurnoor, Aditi, Mansi	Ritika, Ramanpreet	Tanu, Navneet, Sakshi	-	B.Sc. III (Voc)