


1. Personal Details

Name	Dr. Onkar Mangla	
Designation	Assistant Professor	
Department	Physics	
Email	onkarmangla@dr.du.ac.in	

2. Educational Qualification

Degree	Institution	Year
B.Sc. (H) Physics	Dyal Singh College, University of Delhi	2006
M.Sc. (Physics)	Kirori Mal College, University of Delhi	2009
Ph.D. (Physics)	University of Delhi	2015

3. Full Time Research Experience

Designation	Institute	Time period	Nature of Appointment
Junior Research Fellow	Department of Physics and Astrophysics, University of Delhi	01.07.2009 to 30.06.2011	NA
Senior Research Fellow	Department of Physics and Astrophysics, University of Delhi	01.07.2011 to 30.06.2014	NA

4. Full time Teaching Experience

s.no	Designation	Institution	Time Period	Nature of Appointment
1.	Assistant Professor	Daulat Ram College, University of Delhi	July 2017 to Till date	Adhoc
2.	Assistant Professor	Ramjas College, University of Delhi	October 2016 to May 2017	Adhoc

3.	Guest Faculty	Hindu College, University of Delhi	January 2015 to April 2017	Guest
4.	Assistant Professor	Lingaya's University, Faridabad	October 2014 to January 2015	Permanent
Total				

5. Administrative Assignments

Name of Institute	Designation	Status	Time period	Experience
Daulat Ram College, University of Delhi	Teacher-in-Charge, Physics Department	NA	01.05.2018 to 30.04.2019	11 months
Daulat Ram College, University of Delhi	Member, Admission Committee	NA	2018-19	1 year
Daulat Ram College, University of Delhi	Member, Purchase committee	NA	2018-19	1 year
Daulat Ram College, University of Delhi	Member, In-House Skill Development committee	NA	2018-19	1 year
Daulat Ram College, University of Delhi	Member, Discipline committee	NA	2018-19, 2019-20, 2020-21	3 years
Daulat Ram College, University of Delhi	Member, Prospectus committee (Information Bulletin)	NA	2019-20, 2020-21	2 years

6. Areas of Interest:

Elements of Mechanics, Mathematical Physics, Communication Electronics, Quantum Mechanics and Applications, Electronics, Digital Electronics, Microprocessors and Microcontrollers, Digital Systems and Applications, Analog Systems and Applications, Astronomy and Astrophysics.

7. Subjects Taught

S.No	Course	Subject Taught	Semester	Year
1.	B.Sc. Physical Sciences	Microprocess or	VI	2017
2.	B.Sc. (H) Chemistry/Maths	Digital, Analog and Instrumentati	I	2017

		on		
3.	B.Sc. (H) Chemistry/Maths	Communication Systems	III	2017
4.	B.Sc. (H) Physics	Digital Systems and Applications	III	2018
5.	B.Sc. (H) Chemistry/Maths	Embedded Systems: Introduction to Microcontrollers	II	2018
6.	B.Sc. (H) Maths	Astronomy and Astrophysics	IV	2018
7.	B.Sc. (H) Physics	Basic Instrumentation Skills	III	2018
8.	B.Sc. (H) Maths	Communication Systems	III	2018
9.	B.Sc. (H) Physics	Analog Systems and Applications	IV	2019
10.	B.Sc. (H) Maths	Astronomy and Astrophysics	IV	2019
11.	B.Sc. (H) Physics	Digital Systems and Applications	III	2019
12.	B.Sc. (H) Physics	Quantum Mechanics and Applications	V	2019
13.	B.Sc. (H) Physics	Analog Systems and Applications	IV	2020
14.	B.Sc. (H) Maths	Astronomy and Astrophysics	IV	2020
15.	B.Sc. (H) Physics	Digital Systems and Applications	III	2020
16.	B.Sc. (H) Chemistry/Maths	Digital, Analog and Instrumentation	I	2020

17.	B.Sc. (H) Physics	Analog Systems and Applications	IV	2021
18.	B.Sc. (H) Chemistry/Maths	Embedded Systems: Introduction to Microcontrollers	II	2021
19.	B.Sc. (H) Physics	Quantum Mechanics and Applications	V	2021
20.	B.Sc. (H) Physics	Thermal Physics	III	2021

8. Research Guidance Given:

Name of student	Gender	Degree for which guidance	Date of Registration	Supervisor/Cosupervisor	University	Title of Thesis	Date of submission of thesis	Date of Award of
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

9. Details of refresher/orientation course/research methodology/workshop/syllabus up-gradation/teaching –learning-evaluation/technology programmes/Faculty Development Programme

S.No.	Details	Place	Period		Year	Sponsoring/Organising Agency
			From	To		
1.	Participated as a Resource person in Workshop for development of E-resources in science for secondary stage	NCERT New Delhi	30 th October, 2017	3 rd November, 2017	2017	NCERT
2.	Participated in Two day workshop entitled “Can We Engage the Young Age! ?” organized	Daulat Ram College, University of Delhi, Delhi	June 28, 2018	June 29, 2018	2018	DRC

	under Star DBT Project & IQAC					
3.	Participated in Online one week Faculty Development Program (FDP) on Recent Advances in Science and Technology	RPS Group of Institutions, Mahendergarh, Haryana	21 May, 2020	27 May, 2020	2020	NA
4.	Completed the Online Orientation Course on Nonviolent Communication conducted	Gandhi Smriti and Darshan Samiti	-	-	2020	NA
5.	Attended and Participated in Online Refresher Course on Astronomy and Astrophysics 2020	Teaching learning Centre (TLC) of IUCAA	11 May, 2020	12 June, 2020	2020	IUCAA
6.	Participated in E-Faculty Development Programme (E-FDP) on Empowering Teaching-Learning Process Using Google Classroom and Other ICT Tools: A Comprehensive Practical Approach	Department of Commerce, Daulat Ram College, University of Delhi	21 July, 2020	23 July, 2020	2020	NA
7.	Participated in One Week Online International Faculty Development	Department of Computer Science and Engineering, Karunya Institute of	03 August, 2020	07 August, 2020	2020	NA

	Program on Technologies for Societal Needs- Real Time Applications of AI, ML and Research initiatives	Technology and Sciences, Tamil Nadu, India and Department of Computer Science and Engineering, North Eastern Regional Institute of Science and Technology, Arunachal Pradesh, India				
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10. MOOCs completed with e-certification

S.No.	Details of MOOC	Subject	Certification providing agency	Date of certification	Level (UG/PG/Other)	Year	E-certification no.
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

11. Contribution towards development of e-content/MOOCs in 4- quadrants

S.No.	Details of E-contents/ MOOCs in 4- quadrants	Quadrants developed	No. of Modules	Course	Sponsoring agency	Year	Level (UG/PG/Other)
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

12. Contribution towards conduct of MOOCs

S.No.	Details of MOOC	Subject	Sponsoring agency	Level (UG/PG/Other)	Year	E-certification no.
NIL	NIL	NIL	NIL	NIL	NIL	NIL

13. Organising seminars/ conferences/workshops, other college/university activities.

S.No.	Year	Details	Place	Period		Sponsoring/Organising Agency
				From	To	
1.	2018	Resource person and Member of organizing committee for	Daulat Ram College, University	December 17, 2018	December 21, 2018	INSPIRE

		"Inspire Science Camp"	of Delhi, Delhi			
2.	2018	Resource Person for In-House Skill Development Program under IQAC on "Basic Electronic Skills and Applications"	Department of Physics, Daulat Ram College	December 24, 2018	December 31, 2018	NA
3.	2019	Participated and Member of Organizing team in National Symposium/Workshop on Yoga and Meditation for the Holistic Well Being	Daulat Ram College, University of Delhi, Delhi	7 th March, 2019	7 th March, 2019	NA
4.	2019	Course-Coordinator and Resource Person for In-House Skill Development Program under IQAC on "Latex and its Applications"	Department of Physics, Daulat Ram College	July 12, 2019	July 19, 2019	NA
5.	2019	Resource Person in Skill Enhancement Workshop for Non-Teaching Staff	Daulat Ram College, University of Delhi, Delhi	July 2019	July 2019	NA
6.	2019	Participated and Member of Organizing team in Workshop on Quantum Mechanics and its Applications	Daulat Ram College, University of Delhi, Delhi	24 th September, 2019	24 th September, 2019	NA
7.	2020	Participated and Member of Organizing Team in Webinar on Art and Science of Mentoring	Daulat Ram College, University of Delhi, Delhi	1 June, 2020	1 June, 2020	NA

14. Creation of ICT mediated Teaching Learning pedagogy and content and development of new and innovative courses and curricula

Development of Innovative Pedagogy e module

S.No.	Name of the Module	Subject	Stream	Organization for which it was developed	Year	Level (UG/PG/Other)	Weblink
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

15. Research Projects ongoing 2017-21

S.No	Name of Research Project	Funding Agency	National/International	Duration	Amount Sanctioned	Amount Received
NIL	NIL	NIL	NIL	NIL	NIL	NIL

16. Research projects Completed

S.No	Name of Research Project	Funding Agency	National/International	Duration	Amount Sanctioned	Amount Received
NIL	NIL	NIL	NIL	NIL	NIL	NIL

17. Books published

S.No	Authors (year)Name of Book. Publisher, ISBN No	Publisher	Date of publishing	Authored/Edited	ISBN No
NIL	NIL	NIL	NIL	NIL	NIL

18. Book Chapters/Articles published

S.No	Author(year) Title of Chapter/Article,in Edited Book: Title of book, Publisher, Vol, Page no	Date of publishing	Authored/Edited	ISBN No
NIL	NIL	NIL	NIL	NIL

19. E- Modules Published

S.No	Author (year) Title, Module, Subject ,Organisation, Weblink	Date of publishing	Authored/Edited	Link
NIL	NIL	NIL	NIL	NIL

20. Research Publications:

S.No	Author/s(Year) Journal Name, Vol, series, pg no, ISSN	Date of Publishing	Impact Factor	UGC Care List Journal Yes/No	Scopus Indexed Journal Yes/No
1.	Onkar Mangla, Savita Roy, S. Annapoorni, and K. Asokan, "Annealing of deep level defects in GaAs nanostructures by ion beam irradiation", Materials Letters 217 , 231-234 (2018), ISSN: 0167-577X.	2018	3.423	Yes	Yes
2.	Onkar Mangla and Savita Roy, "Zinc Oxide Nanostructures Fabricated under Extremely Non-Equilibrium Plasma Conditions", Solid State Phenomena 287 , 75-79 (2019), ISSN: 1662-9779.	2019	0.468	Yes	Yes

3.	Onkar Mangla and Savita Roy, “Monoclinic Zirconium Oxide Nanostructures Having Tunable Band Gap Synthesized under Extremely Non-Equilibrium Plasma Conditions”, Proceedings 3 , 10 (2019), ISSN: 2504-3900.	2019	NA	No	Yes
4.	Onkar Mangla and Savita Roy, “Metal-Oxide- Semiconductor Capacitors Fabricated on Zirconium Oxide High-K Gate Dielectric Nano- Layers”, International Journal of Recent Technology and Engineering (IJRTE) 7 (6S) , 868-870 (2019), ISSN: 2277-3878 (Online).	2019	6.04	No	Yes
5.	Onkar Mangla and Savita Roy, “Study of Morphological, Structural, Optical and Transport Properties of Gallium Nitride Nanodots Fabricated under Extreme Plasma Conditions”, International Journal of Advances in	2019	3.15	No	Yes

	Science Engineering and Technology (IJASEAT) 7 (1-S-2) , 4-8 (2019), ISSN(p): 2321 – 8991, ISSN(e): 2321 – 9009.				
6.	Onkar Mangla , Savita Roy, S. Annapoorni, and K. Asokan, “A study on defect annealing in GaAs nanostructures by ion beam irradiation”, Bulletin of Materials Science 43 , 78 (2020), ISSN: 0250-4707 (Print) 0973-7669 (Online).	2020	1.783	Yes	Yes
7.	Onkar Mangla and Savita Roy, “Synthesis of gallium arsenide nanostructures for solar cell applications”, Materials Letters 274 , 128036 (2020), ISSN: 0167-577X.	2020	3.423	Yes	Yes
8.	Onkar Mangla and Savita Roy, “Bilayer of zirconium oxide/lanthanum oxide high-k dielectric fabricated for metal-oxide-semiconductor nano-electronic device applications”, Materials Letters	2021	3.423	Yes	Yes

	301, 130242 (2021), ISSN: 0167-577X.				
9.	Onkar Mangla, and Savita Roy, “Synthesis of nano-diamond- like carbon for protective optical window coating applications”, Bulletin of Materials Science (Accepted) (2021), ISSN: 0250-4707 (Print) 0973-7669 (Online).	2021	1.783	Yes	Yes

21. Conference Proceedings publication

S.no	Title of Paper (Year) Title of conference proceedings , Vol, series, Pg no , ISBN	Date of Publishing	Peer Reviewed Yes/No	Venue of conference
NIL	NIL	NIL	NIL	NIL

22. Conference Attended and Paper presentation

s.no	Type of Event	Name of Event	Venue of conference	Date of conference	Attended only Yes/no	paper presented Yes/No	Title of Paper Presented
1.	International Conference	9 th International Conference on Manufacturing Science and Technology (ICMST 2018)	University of Malaya, Kuala Lumpur, Malaysia	11-13 August, 2018	No	Yes	Zinc Oxide Nanostructures Fabricated Under Extremely Non-Equilibrium Plasma

							Condi tions
2.	Internation al Online Conference	1 st International Online Conference on Nanomaterials (IOCN 2018)	Online	1-15 September, 2018	No	Yes	Monocli nic zirconiu m oxide nanostru ctures having tunable band gap synthesiz ed under extremel y non- equilibri um plasma conditio ns
3.	Internation al Conference	4 th International conference on Nanotechnology and Nanomaterial's (Nanotek Summit 2k18)	Flora Creek Deluxe Hotel Apartments, Dubai, U.A.E.	21-22 September, 2018	No	Yes	Metal- Oxide- Semicon ductor Capacito rs Based on Zirconiu m Oxide High-κ Gate Dielectri c Nanolay ers
4.	Internation al Conference	108 th International Conference on Nanoscience, Nanotechnology and Advanced Materials (IC2NM 2018)	Village Hotel Changi, Singapore	2-3 December, 2018	No	Yes	Study of Morphol ogical, Structur al, Optical and Transpor t Properti

							es of Gallium Nitride Nanodots Fabricated under Extreme Plasma Conditions
5.	National Symposium	33 rd National Symposium on Plasma Science & Technology (PLASMA 2018)	Department of Physics and Astrophysics, University of Delhi, Delhi-110007, India	4-7 December, 2018	No	Yes	Plasma-Assisted Deposition of Zinc Oxide Nanostructures in Nitrogen Ambient
6.	International Conference	International Conference on Advance in Smart Materials & Emerging Technologies (ASMET 2020)	Department of Applied Sciences and Humanities, Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi, India	23-24 January, 2020	No	Yes	Metal-Oxide-Semiconductor Capacitors Fabricated on Nanolayers of Zirconium Oxide as High-k Gate Dielectric

23. Resource Person (Invited Lecture/Paper Presentation/ Chairing session/judging/ educational trips)

S.No	Type of Event	Name of Event	Venue	Date of Event	State your role: Convener/Member organizing committee/ Speaker/ Coordinator	Duration of Activity	No of participant in the programme
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NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
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24. Awards Won

S.No	Name of Award	Awarding Agency	Government/ NGO/ International/Private	Recognition area	Date of award	Type of Honor received
1.	Excellent Paper Award	Academics World	International	Academics for paper presentation	2 December 2018	Certificate

25. Extension Activity (Community related program)

S.No	Type of Activity	Centre and Venue	Title of Event	Role in the event	Date/period of Event	No of members of the community/students /Faculty benefitted
NIL	NIL	NIL	NIL	NIL	NIL	NIL

26. Membership of Professional Bodies

S.No	Type of Membership	Organisation	Year of Membership
1.	Life Member	Plasma Science Society of India	NA

Signature