




**DEPARTMENT OF CHEMISTRY  
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI  
FACULTY DETAIL**



Title	DR	First Name	AMITA	Last Name	DUA	
Designation	ASSISTANT PROFESSOR					
Address	M-1507, LOGIX BLOSSOM GREENS, SECTOR-143, NOIDA					
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Web-Page						

**Educational Qualifications**

Degree	Institution	Year
B.Sc(H) Chemistry	Delhi University (Gargi College)	2000
M.Sc Chemistry	Delhi University(Hindu College)	2002
Ph.D	Delhi University	2007

**Career Profile**

Worked as Assistant Professor in Dyal Singh College on Adhoc basis from 25-01-2005 TO 14-03-2015.

Working as Assistant Professor in Dyal Singh College as Permanent Faculty from 19-03-2015 TO TILL DATE.

Got promotion from Stage 1 to Stage 2 as well from Stage 2 to Stage 3 on 09-12-2020.

**Administrative Assignments (From 1<sup>st</sup> July 2016 onwards) Attach Documents**

	Year	Nature of Activity	Designation	Institution/ Department	From	To
1	2016-2017					
		Department Head	Teacher-In-charge	Dyal Singh College/ Chemistry	July 2016	June 2017
		Garden Committee	Co-Convener	Dyal Singh College	July 2016	June 2017
		Antiragging Committee	Co-Convener	Dyal Singh College	July 2016	June 2017
		Installation	Member	Dyal Singh	July	June

		and Maintenance of instruments Committee-Department		College/ Chemistry	2016	2017	
		Purchase Committee-Department	Convenor	Dyal Singh College/ Chemistry	July 2016	June 2017	
		Academic Committee	Member	Dyal Singh College/ Chemistry	July 2016	June 2017	
		Demonstration of ETP plant set up in Chemistry Department on Doordarshan		Dyal Singh College/ Chemistry	March 2017		
		Placement Cell	Member	Dyal Singh College	July 2016	June 2017	
		Web Development Committee	Co-Convener	Dyal Singh College	July 2016	June 2017	
		Stock verification committee	Member	Dyal Singh College/Chemistry	July 2016	June 2017	
		Admission Committee-Chem(Hons)	Convener	Dyal Singh College	June 2016	July 2016	
2	2017-2018						
		Admission Committee Chem(Hons)	Member	Dyal Singh College/ Chemistry	June 2017	July 2017	
		Women Advisory Committee	Member	Dyal Singh College	July 2017	June 2018	
		Environmental Club	Member	Dyal Singh College	July 2017	June 2018	
		Fee Concession Committee	Member	Dyal Singh College	July 2017	June 2018	
		Purchase committee-Department	Member	Dyal Singh College/ Chemistry	July 2017	June 2018	

3	2018-2019						
		Antiragging Committee	Member	Dyal Singh College	July 2018	June 2019	
		Admission Committee	Science Convener	Dyal Singh College	June 2018	July 2018	
		Garden Committee	Convener	Dyal Singh College	July 2018	June 2019	
		Echo-Club	Coordinator	Dyal Singh College	July 2018	June 2019	
4	2019-2020						
		Adventure Club	Member	Dyal Singh College	July 2019	June 2020	
		Admission Committee	Science Convener	Dyal Singh College	June 2019	July 2019	
		Garden Committee	Convener	Dyal Singh College	July 2019	June 2020	
		Anti Ragging Committee	Member	Dyal Singh College	July 2019	June 2020	
		Women Advisory Committee	Member	Dyal Singh College	July 2019	June 2020	
		Purchase Committee	Member	Dyal Singh College/ Chemistry	July 2019	June 2020	
		Library Committee	Convenor	Dyal Singh College	July 2019	June 2020	
		Stock Verification Committee	Member	Dyal Singh College/ Computer Science	July 2019	June 2020	
5	2020-2021						
		Adventure Club	Member	Dyal Singh College	July 2020	June 2021	
		Admission Committee	Science Convener	Dyal Singh College	July 2020	June 2020	
		Garden Committee	Convener	Dyal Singh College	July 2020	June 2021	
		Anti Ragging	Member	Dyal Singh	July	June	

		Committee		College	2020	2021	
		Women Advisory Committee	Member	Dyal Singh College	July 2020	June 2021	
		Lab Development Committee	Member	Dyal Singh College/Chemistry	July 2020	June 2021	
		Governing Body Member	Teacher Representative	Dyal Singh College	31Oct 2020	30Oct 2021	

#### Areas of Interest / Specialization

QUANTUM CHEMISTRY AND SPECTROSCOPY / PHYSICAL CHEMISTRY

#### Subjects Taught/Attach Documents(time table odd/even semester)

QUANTUM CHEMISTRY  
 MOLECULAR SPECTROSCOPY  
 PHASE EQUILIBRIA  
 CHEMICAL AND IONIC EQUILIBRIUM  
 CHEMICAL KINETICS  
 CONDUCTANCE AND ELECTROCHEMISTRY  
 SOLUTIONS  
 SOLID, LIQUID AND GASES  
 THERMODYNAMICS

#### Research Guidance/Attach Documents

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#### Publications Profile (From 1<sup>st</sup> July 2016 onwards)Attach Documents with front page with impact factor

##### **RESEARCH PAPER (four)**

1. Microwave assisted synthesis of pH sensitive superabsorbent polymers based polyaspartic acid / acrylic acid, International Journal of Green Chemistry & Bioprocess, 6(1), 7-12, 2016  
 Shilpa Sharma, Amita Dua, Amita Malik  
 ISSN NO.: 2277-7199

Impact Factor: 0.24

2. Superabsorbent polymer gels based polyaspartic acid and polyacrylic acid, Journal of Material Science and Engineering, 5(3), 1-7, 2016

Shilpa Sharma, Amita Dua, Amita Malik

ISSN NO.: 2169-0022

Impact Factor: 5.447

3. Polyaspartic acid based superabsorbent gels with different cross-linkers- A comparative study, Journal of Applied Chemistry, 9(5), 56-66, 2016

Shilpa Sharma, Amita Dua, Amita Malik

ISSN NO.: 2278-5736

Impact Factor: 3.149

4. Bio-compatible stimuli responsive superabsorbent polymer for controlled release of GHK-Cu peptide for wound dressing application, Journal of Polymer Research, 2(4), 104, 2017

Shilpa Sharma, Amita Dua, Amita Malik

ISSN NO.: 1022-9760

Impact Factor: 1.92

**BOOKS PUBLISHED (FOUR BOOKS)**

**1. Practical Organic Chemistry**, Manakin Press Pvt. Ltd., Amita Dua and Amita Malik, 2017

**ISBN:** 978-93-84370-42-8

**2. Practical Inorganic Chemistry**, Manakin Press Pvt. Ltd., Amita Dua & Navneet Manav, 2017

**ISBN:** 978-93-84370-66-4

**3. Practical Physical Chemistry**, Manakin Press Pvt. Ltd., Amita Dua, 2017

**ISBN:** 978-93-84370-67-1

**4. Chemistry Inorganic & Physical (Vol.5)**, Manakin Press Pvt. Ltd.,

Amita Dua and Amita Malik ; A.K. Bhagi and Navneet Manav 2019

**ISBN:** 978-93-88342-23-0

## ARTICLE PUBLISHED

Digital Education transforming Higher Education,CEC Letter News, Pg.5.,Vol.19(8), 2018

## Conference Organization/ Presentations(From 1<sup>st</sup> July 2016 onwards)Attach Documents

- Participated in seminar on Technical Terminology and Science Teaching” organized by MHRD, at Zakir Hussain College, from 22<sup>nd</sup> -23<sup>rd</sup> February 2017
- Participated in Seminar on, “ Consciousness and Artificial Intelligence “, organized by Indian Science Congress Association- Delhi Chapter, &ZakirHussain College on 25<sup>th</sup> Oct. 2017.
- Participated as member of organizing committee in one week Faculty Development Program on' Environment Sustainability and Higher Education" organized by Dyal Singh college from 4<sup>th</sup>-11<sup>th</sup> June 2018
- Participated in One day Workshop on "Computational Chemistry "organized by IQAC and Department of Chemistry on 2<sup>nd</sup> Feb 2019.
- Orientation Workshop on "Effective Communication; Impressive Delivery", organized by Consortium for Educational Communication ( CEC), on 30<sup>th</sup>March-2019
- Participated in One day Webinar on "Higher Education in India: Pandemic Paradigms"organized by IQAC , Dyal Singh College on 20<sup>th</sup> May 2020.
- Participated in One Day National Webinar on "Open Educational Resources"organized by Department of Chemistry, Gargi College on 21<sup>st</sup> May 2020.
- Mendeleev Training Course organised by Aggarwal College, Ballabgarg, India on 7<sup>th</sup> June 2020.
- Participated as member of organizing committee in one day **National Workshop on Empowerment and their leadership in society** " organized by Women Advisory Committee, IQAC,Dyal Singh college on 25 March 2021.

Research Projects (Major Grants/Research Collaboration) (From 1 <sup>st</sup> July 2016 onwards)/Attach Documents	
<p>Synthesis &amp; Characterisation of biodegradable superabsorbent polymers/hydrogels for disposable biomedical products            UGC (F.No-42-255/2013(SR))            Major project, 2013-2017</p>	
Awards and Distinctions (From 1 <sup>st</sup> July 2016 onwards)Attach Documents	
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Association With Professional Bodies/ Attach Documents	
<p><b>GOVERNING BODY MEMBER OF DYAL SINGH COLLEGE W.E.F 31-10-2020</b></p>	
Other Activities like MOOCs/Refresher/Orientation/ Patents etc. (From 1 <sup>st</sup> July 2016 onwards)	
<p>Online lecture- 29 lectures            At (Consortium for Educational Communication)</p>	<p>Topic: Quantum Chemistry            Year : 2016-2019            CEC/RS/93/Edusat-Cert./2018  <a href="http://www.youtube.com/cecedusat">www.youtube.com/cecedusat</a></p>
IGNOU	<p>PHYSICAL CHEMISTRY            Year: 2019-2020</p>
IGNOU	<p>PHYSICAL CHEMISTRY            Year: 2020-2021</p>

S.No.	Details	Place	Period		Sponsoring/Organising Agency
			From	To	
1	<b>Refresher:</b> Environmental Studies (ID)	JNU	15July 2019	26July 2019	JNU/UGC sponsored
2	<b>Refresher:</b> Chemistry for Higher Education	Online	Sept 2019	Dec 2019	SwayamArpit online course/ MHRD
3	<b>FDP :</b> Spectroscopic and Analytical Techniques:Applications	Online	25May 2020	29May 2020	PMMMNMTT/MHRD
4	<b>FDP :</b> Research Methodology:Tools & Techniques	Online	5 June 2020	11June 2020	TLC, Ramanujan College / MHRD
5	<b>FDP :</b> Teacher, Teaching	Online	18Oct	23Oct	TLCSS,Sagar/

	and Teacher Education: Processes, Concerns and Prospects		2020	2020	PMMMNTT
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Signature of Faculty Member