

## RESEARCH & PUBLICATIONS

### DEPARTMENT PROJECTS

#### 1. *DIC Spoke Centre (2019 – present)*

Lady Irwin College is a SPOKE Institute of Innovation Centre, University of Delhi under NIDI (national Initiative for Design Innovation) Scheme, Ministry of Human Resource Development (MHRD). It was held at the Department of Resource Management and Design Application, Lady Irwin College from December 2019 – February 2020. As a part of this, the department had organized various workshops and trainings, developed sustainable and inclusive products and participated in diverse conferences and seminars.



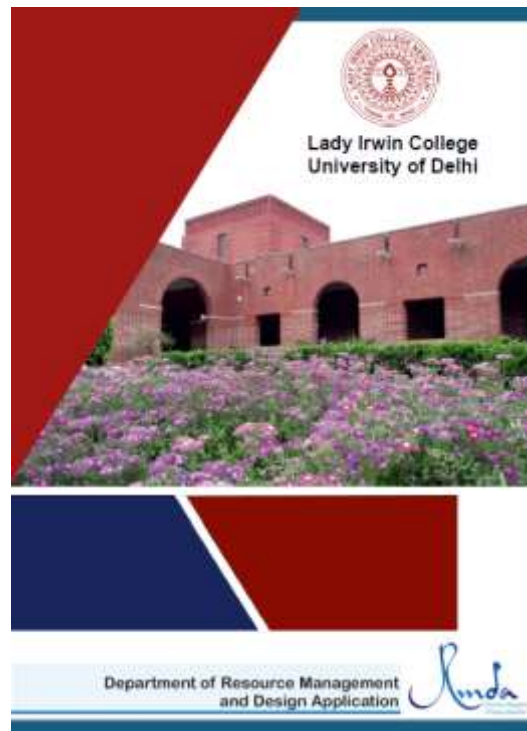
#### 2. *Segregation of organic –waste for Recycling and Treatment Project (2018 – present)*

Department of Resource Management and Design Application in collaboration with Indian Pollution Control Association (IPCA) have taken initiative to install Aero-bins in the campus to upgrade the procedure of Solid Waste Management. Students of M.Sc. previous worked on this project as part of a subject curriculum. Campus is utilizing its organic waste to convert it into manure which is being used in organic farming.



### 3. *Paper Waste Management with Jaagruti (2016- Present)*

Faculty of Resource Management and Design Application Department has undertaken a project on paper recycling and tied up with 'Jaagruti- Waste Paper Recycling Services' for managing college's paper waste. All the used paper of campus sent to them which is recycled into useful products like notepads for use by college faculty and students.



### 4. *Training for International Abilympics (2018 - 20)*

The department of RMDA is collaborating with SARTHAK EDUCATIONAL TRUST organized a Trainers program for training people with disabilities in painting for National and International Abilympics. Department faculties and Research scholars took active part in five day event held in March, 2020.



### **5. *Eco-Innovation (2016 - 2017)***

Department of Resource Management & Design application started initiative on sustainable use of paper with a competition called Campus Impact Challenge (CIC) in which department masters students had participated. CIC was sponsored with TERI & GENPACT. CIC is a youth initiative towards the awareness on environment and its aim was to bring a significant change in the campus. The project students undertook was titled as Eco- Innovation- A youth initiative towards sustainable consumption of paper.



**6. DU Innovation Project LI-305 (Waste to Wealth: Promoting Sustainable Consumption through Recycling of Paper Waste), 2015-2016**

The main aim of this project was to make the stakeholders aware about the concept of reuse and recycling of paper. The project also aimed to produce quality products with the paper thus recycled. The project was envisaged with the view of moving towards environment friendly and sustainable practices of reuse, reduce and recycle with both short term and long term benefits. The short term benefits include reducing paper waste and the long term benefit would towards the reduction of greenhouse gases by protecting trees which would have otherwise been cut for paper production. The project also sensitized the youth regarding intelligent use of paper and the benefits of recycling.

**7. DU innovation project LI –304 (Developing sustainable products using garden waste), 2015-2016**

The aim of the project was to develop eco-friendly products of utility for households and retail purposes using garden waste like dried leaves, twigs and grass. The project helped in understanding different ways garden waste products can be utilized for making sustainable products.



**8. DU innovation Project LI-201 (Designing Solar engineered products for the Rural Population), 2014-2015**

This aim of this project was to integrate solar energy into the daily use products of people so that they could use it effectively without making too many lifestyle changes. These products can be placed in the open like the courtyard, terrace, farm or garden to harness solar energy and store it in portable batteries; these can be then used outside or inside the house for lighting purposes.





**9. National Institute of Social Defence, Ministry of Social Justice & empowerment, (Subjective well-being of elderly living in old age homes; An exploratory study), 2012-2014**

The project dealt with assessment of existing scenario of old age homes available to elderly in NCT. Need based interventions were designed and implemented in 12 old age homes in Delhi & NCR to enrich their quality of life. Impact of interventions on quality of life of elderly was assessed.

**10. DU innovation Project LI-202 (creating social acceptance towards sustainability audit of electronic products in planning modern India)**

The project aimed at formulating the criteria for sustainability audit of electronic gadgets so that consumers can select sustainable electronic products. The criteria developed will be useful for users, policy makers and manufacturers to ensure product sustainability. Sustainability audit criteria is a new concept as there is no such framework available for electronic products. Though we have energy efficiency rating for buildings and energy certification for BEE certified electronic products but there is none for sustainability of electronic products. By adopting sustainability audit of electronic products, carbon foot-printing could be reduced and thus environment could be protected from further damage.



### ***11. DU innovation Project LI-101 (Multi-Criteria Framework for Sustainability Design Audit)***

The collaboration and interaction with service center officials, e-waste recyclers (formal & informal), experts from legal departments, environmentalists, Ministry of environment and forest, manufacturers of electrical products, design professionals, auditors, etc. during the project provided intense insights to frame the criteria. The project directly dealt with a subject that is highly pertinent in the present scenario. The focus was on developing consciousness among the users, manufacturers, law makers, policy makers, e-waste handlers towards e-waste issues in the environment and the society, therefore, the manufacturers have to take the responsibility of using non-toxic materials that are sustainable and have proper standards for correct disposal.



## ***12. DU innovation Project LI-102 (Generating Energy Consciousness among Rural Households)***

The project dealt with the rural families of the two selected villages where Government had installed some RETs but were not being used by the residents. The project team was able to reinforce the existing programme by providing relevant information concerning functioning of RETs. Interventions during the project helped in addressing the barriers in adoption and befriending the new technology by bringing in day-to-day life. Adoption of renewable energy technologies led to change in their way of living and immense power saving - reported by the residents.





**13. Ministry of Health & Family Welfare funded by World Bank (Nation-wide Survey and Capacity Building Programme for Street food Providers), 2005-2008**

The Project was a great opportunity to survey the practices of street food service providers and explore the gaps for improving the safe services offered to customers. Capacity building for street food service providers and the challenges of its sustainability lies in the adoption of measures and translating it to practice by all stake holders. The research team worked on traing manuals to initiate a Quality Literacy movement to ensure that safe and sound quality food should be accessible to the customers.



***14. Department of Science & Technology Project (Eco-Water Literacy for Sustainable Management of Water), 2007***

Climate change in particular exacerbates existing shortages of water. Women are largely responsible for water collection in their communities and are therefore more affected when the quality of water and its accessibility changes. In order to facilitate wide-spread eco-water literacy, a manual was developed comprising of significant issues pertaining to water.



***15. Department of Science & Technology Project (Home Science Quest on Eco-Water Literacy), 2007***

Exhibition and training were executed with respect to safe and efficient use of water so that water pollution, water wastage could be minimized and if possible eliminated. Consciousness for successful and practical recycling or reusing methodologies were shared with the help of IEC material (developed in the project).

The department was involved in other projects in the past listed as follows:

***16. DDA slum wing (Dwelling Design: Infrastructure Facilities and Utilities in DDA Slums – User's Perspective) 1992***

***17. Delhi Social Welfare Board & Rotary Club, Chanakyapuri (Vocational Training Course in Pottery for Adult Women) 1994-1995***

***18. Delhi Social Welfare Board & Rotary Club, Chanakyapuri (Balwadi Nutrition Programme) 1994-1995***

## DEPARTMENT PUBLICATIONS

### 1. Published papers

#### 2019-2020

- Bansal, S., Mital, M. and Gupta, P. (2020). Skill gap, education and employability. *International Journal of Research and Analytical Reviews (IJRAR)*, 7(3), 449-455, E-ISSN 2348-1269, P- ISSN 2349-5138.
- Chitkara, S., Goel, S. (2019). Criteria for Selection of Packaged FMCG by Consumers in *International Journal of Applied Social Science*, ISSN 2394-1405, 6 (6), 1415-1418, IF: 1.543, Peer reviewed journal
- Dhingra, R. & Gupta, P. (2019). Training need of Construction Professionals regarding Green Buildings, *International Journal of Applied Home Science*, Volume 06 (6-8), pg 230-235, ISSN No.2394-1413.
- Gaur, M. & Goel, S. (2019). Effects of Occupational Heat Stress on Performance and Health of Construction Workers in *International Journal of Architecture, Engineering and Construction*, p-ISSN 1911-110X e- ISSN 1911-1118, H INDEX: 3.8, 7(4), 1-6, UGC CARE 2020 approved, Peer reviewed journal
- Gaur, M. and Goel, S. (2019). Reconnaissance Construction Safety Hazards for Zero Accidents: A review study of Literature in *Journal of Civil Engineering and Environmental Technology*, p-ISSN: 2349-8404; e-ISSN: 2349-879X, 6 (2), 54-57, IF (2015): 4.006, (2018): 4.857, Peer reviewed journal
- Gupta, V., Goel, S., & Rupa, T. G. (2019). Solid Waste Management: Mapping of solid waste in selected Delhi schools in *International Journal of Emerging Technologies and Innovative Research (JETIR)*, ISSN: 2320-5407 Article DOI: 10.21474/IJAR01/9837, 6(6), 241-247, IF: 5.87, UGC Approved Journal Number 63975 & Peer reviewed journal.
- Gupta, V., Goel, S., & Rupa, T. G. (2019). Status of existing solid waste management initiatives in Delhi Schools in *International Journal of Advance Research (IJAR)*, ISSN: 2320-5407, 7(10), 350- 357, IF: 2018: 7.08 2020: 7.337, Peer reviewed journal
- Gupta, V., Goel, S., & Rupa, T. G. (2019). Status of existing solid waste management initiatives in Delhi Schools. *International Journal of Advance Research (IJAR)*, 7(10), 350-357

- Gupta, V., Goel, S., & Rupa, T. G., (2019). Environment Conservation: Ranking of selected eco-club schools in Delhi, *International Journal of Home Science*, ISSN: 2395-7476, 5(2), 196-199, IF: RJIF 5.3, NAAS Rating: 3.32, Peer reviewed journal
- Kayina, H. & Goel, S. (2019). Relationship between product attachment and product retention: Reference to chair and wedding attire in *International Journal of Applied Home Science*, ISSN 2394-1413, 6(4&5), 175-181, IF:1.4215, Peer reviewed journal
- Kayina, Hriiyiphro, Goel S. & Das L.K. (2020). Determinants of emotional value: Reference to chair and wedding attire in *The International Journal of Designed Objects*, ISSN: 2325-1379 doi:10.18848, 14 (1), 1-23, H INDEX: 3, IF: 0.08, Peer reviewed journal
- Mital, M. (2019). Skill Development: The status and challenges in India. *International Journal of Applied Home Science*. 6 (6- 8). ISSN 2394- 1413. Impact factor: 5.486 (SJIF - 2018) (pp 280 – 284)
- Mital, M. (2020). Skill gap, education and employability. *International Journal of Research and Analytical Reviews*. 7(3). E- ISSN 2348- 1269, P- ISSN 2349. (Pp 449 – 455)
- Singh, A., Mital, M., & Jain, M. (2019). Government initiatives for Solar Water Pumps in selected States. *International Journal of Applied Social Science*, 6(6), 1498-1500, ISSN: 2394-1405
- Singh, C., Mital, M., Gupta, P., & Syal, M. (2019). Skill Development: The status and challenges in India. *International Journal of Applied Home Science*, ISSN:2394-1413.
- Wadhwa, S. (2019). Event greening practices. *Indian Journal of Applied Research*. 9 (9), 4-6.
- Yadav, M. (2019). Study on municipal solid waste management and challenges faced in Indian metropolitan cities. *International Journal of Home Science*, 2019. ISSN: 2395-7476 Volume 5(2), 200-205
- Yadav, M. (2020). “Status of Conventional Energy Sources and Solar Energy in India”: A Review. *Journal of Emerging Technologies and Innovative Research*, 2020. ISSN: 2349-5162, Volume 7, Issue 4, 203-211

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- Chitkara, S. & Goel, S. (2019). Criteria for Selection of Packaged FMCG by Consumers. *International Journal of Applied Social Science*, 6 (6), 1411-1414. ISSN 2394-1405.
- Dhingra, R., & Gupta, P. (2018). Green Buildings: A Case-Study of Indra Paryavaran Bhawan, Delhi. *International Journal of Home Science*, 05(02), pp. 518-524. ISSN No.2394-1413.
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- Kaur, H., & Goel, S. (2018). Are Producers Ready to Comply with EPR for E-waste? *ACE Dialogues*, CEAMA, Vol 8, May Issue 11, 32–33.
- Kayina, H. & Goel, S. (2018). Product attachment and its relation to sustainability: A study with reference to chair. *International Journal of Applied Home Science*, 5 (10-12), 984-991. ISSN 2394-1413.
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- Mishra, G. & Yadav, M. (2019). Study on municipal solid waste management and challenges faced in Indian metropolitan cities. *International Journal of Home Science*, 5(2), 200-205
- Mital, M., & Jain, M. (2018, December). Women and Sustainability: Fostering partnerships through women's participation. *Shashwat, Let Nature Be*, 4(5), 169-171.
- Singh, A., Mital, M., & Jain, M. (2019). Government initiatives for Solar Water Pumps in selected States. *International Journal of Applied Social Science*, 6(6), 1498-1500, ISSN: 2394-1405 (Impact Factor: 5.734).

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- Dhingra, R., & Gupta, P. (2018). Green Buildings: A Case-Study of Indra Paryavaran Bhawan, Delhi. *International Journal of Home Science*, 05(02), pp. 518-524
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- Gaur, M. and Goel, S. (2017). Integration of Energy Efficient Practices In Operations & Maintenance of Resources In Corporate Offices For Optimum Utilisation– An Exploration. *International Journal of Scientific Progress and Research (IJSPR)*, ISSN: 2349-4689 Issue 103, Volume 36, Number 01, pp.20-28.
- Goel, S. Das, L.K. (2017). Multi-criteria framework for sustainability audit of electronic products in planning modern India, *Design for All*, A publication of Design for All institute of India, October 2017 Vol-12 No-10, pp. 87-110, New Delhi.
- Goel, S. Supriya & Pant, P.C. (2017). Adoption of renewable energy technologies by rural households, *Design for All*, A publication of Design for All institute of India, October 2017 Vol-12 No-10, pp. 40-79, New Delhi.
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- Kumar, I. S., Goel, S. & Das, L.K. (2017). Greentailing: Sustainability in retail, Design for All, A publication of Design for All institute of India, October 2017 Vol-12 No-10, pp. 128-142, New Delhi.
- Rupa, T. G. & Bhatia, Nancy. (2017). Eco friendly Materials in Home Accessories for Green Living. Design for All, a publication of Design for All Institute of India, Volume 12, No. 10, October 2017, pp. 72-87.
- Sambhav, Vishakha. (2018). "Employee motivation: a roadmap for increasing organization's performance". GE: International Journal of Management Research. Vol. 6, Issue6, June 2018, ISSN(O): (2321-1709), ISSN(P): (2394-4226).

- Sambhav, Vishakha. (2017). "Employee Motivation: An Imperative For Organizational Performance". International Journal of Applied Home Science, Vol. 4, Issue 9 & 10, September & October 2017, ISSN(P): 2394-1413.
- Supriya., Goel, S. and Pant, P.C. (2017). 'Adaptation of renewable energy technologies along with non-renewable energy technologies for sustainable use of energy resources'. International Journal of Applied Home Science, Volume 4 (7 & 8), 2017, pp.397-411.
- Supriya., Goel, S. and Pant, P.C. (2017). 'Development of Indices for Effectiveness of Renewable Energy Technologies Impacting Change in Quality of Life of Rural Residents'. International Journal of Environment Agriculture and Biotechnology (ISSN: 2456-1878).2(4), 1708-1725.10.22161/ijeab/2.4.32
- Supriya., Goel, S. and Pant, P.C. (2017). Renewable Energy Options among Rural Households in Haryana and Himachal Pradesh: An Overview. International Journal of Advanced Engineering, Management and Science (ISSN: 2454-1311),3(7), 769-784<http://dx.doi.org/10.24001/ijaems.3.7.10>.
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## **2016-2017**

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- Jain, M., Mital, M., & Syal, M. (2016). Solar energy in the commercial sector: End users’ perspective. International Journal of Applied Home Science, 3(11&12), 434-440, ISSN: 2394-1413 (Impact Factor: 4.207).

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#### **E-papers:**

- Chandhok, G., Goel, S. (2016). Effectiveness of sustainable dishwashing practices on resources used by households and food catering units, *International Journal of Environment, Agriculture and Biotechnology (IJEAB)*, 1(2), pp. 132-136, ISSN: 2456-1878, Impact Factor - 2.014.

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## 2. Published book chapters

### 2018-2019

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- Rupa, T. G., Vaishali, Bijli, H. K. (2018). “Technology and Equipments in Events”, Unit 4 in Event Coordination and Control, Course 3, Block 1 for Diploma in Event Management, Indira Gandhi National Open University, New Delhi, pp. 87-116, ISBN-978-93-87960-28-2.
- Rupa, T. G., Vaishali, Sharma, G. (2018). “Event Coordination: Managing the Event Process”, Unit 106 Lady Irwin College 87th Annual Report 2019 1; “Staging Events”, Unit 2 in Event Coordination and Control, Course 3, Block 1 for Diploma in Event Management, Indira Gandhi National Open University, New Delhi, pp. 5-59, ISBN-978-93- 87960-28-2.
- Solanki,R & Kakkar, A. (2018) Availability of furniture for working adults with mobility impairment : User’s perspective, In Inclusive Education: Issues, Challenges and Possibilities. New Delhi: Global Books Organization. ISBN: 978938383724.

### **2017-2018**

- Jain, M. (2017). Exploring the Entrepreneurial Environment. In *Entrepreneurship for Handloom Weavers*. New Delhi: National Institute of Open Schooling. ISBN: 978-93-86656-14-8.
- Kaur, H. & Goel, S. (2018). Electronic waste management & its impact on climate change: a review, in *Socio-Legal Dimensions of Climate Change*, (Eds. Rao et. al.) Bangalore: ENVIS Center on Environmental Law and Policy NLSIU. pp.23-40, ISBN: 978-93-83363-69-8.
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### **2016-2017**

- Goel S. Chitkara, S. (2016). Concept of Management in Management of resources for sustainable development, Chap. 3, pp. 48-77, New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.
- Goel S. Wadhwa, S. (2016). Event Planning and Management in Management of resources for sustainable development, Chap. 6, pp. 121-130, New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.

- Goel S. Supriya. (2016). Public Private Partnership and Management of Resources in Management of resources for sustainable development, Chap. 7, pp. 131-151, New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.
- Goel S. Supriya. (2016). Resource Audit in Management of resources for sustainable development, Chap. 8, pp. 152-173, New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81- 250-6349-0.
- Jain, M. (2017). Exploring the Entrepreneurial Environment. In Entrepreneurship for Handloom Weavers. New Delhi: National Institute of Open Schooling. ISBN: 978-93-86656-14-8.
- Kaur, H. & Goel S. (2016). Practices and concerns of waste in India, Chapter in Waste generation and Utilization, (Eds. Bajaj P., Tabassum B. And Bharti P.K.). Chapter 6, pp. 91-113. (ISBN: 978-93- 5056-792-0), Discovery Publishing House Pvt. Ltd., New Delhi, India.
- Kaur, H. & Goel S. (2016). Employment of PwDs in E-waste recycling: potential & possibilities, Chapter in Skill development: A dynamic approach towards inclusive society for persons with disability, (Eds. Singh J.P. & Pujari J.) pp. 65-70, S.R. Publishing House: New Delhi, Kolkata (ISBN: 978-93-82884-39-2).
- Mital, M. (2017). Understanding the market: Reaching the customer. In Entrepreneurship for Handloom Weavers. New Delhi: National Institute of Open Schooling (ISBN: 978-93-86656-14-8).
- Rupa, T. G. and Wadhwa, Sakshi(2016). Resource Optimisation in Management of Resources for Sustainable Development, Goel, Sushma (Ed.), New Delhi: Orient Blackswan Pvt. Ltd., ISBN: 978-81-250-6349-0, pp. 21-47.
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- Kaur, H., Goel S. (2016). Employment of PwDs in E-waste recycling: potential & possibilities, Chapter in Skill development: A dynamic approach towards inclusive society for persons with disability, (Eds. Singh J.P. & Pujari J.) pp. 65-70, S.R. Publishing House: New Delhi, Kolkata (ISBN: 978-93-82884-39-2).
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- Mital, M., Jain, M. (2015). Introduction to Sustainable Development. In Resources and Sustainability. New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250- 6349-0.



- Mital, M., Jain, M. (2015). Resources and Developmental Issues: Need for Sustainable Development. In Resources and Sustainability. New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.
- Mital, M., Jain, M. (2015). Environmental Management of Key Resources. In Resources and Sustainability. New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.
- Mital, M., Jain, M. (2015). Sustainability and Management of Key Resources. In Resources and Sustainability. New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.
- Mital, M., Jain, M. (2015). Sustainable Business Practices. In Resources and Sustainability. New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.
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### 3. Published/Edited books

#### **2016-2017**

- Goel S. (Ed.) (2016). Management of resources for sustainable development, New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.
- Goel, S., Rupa, T. G., Gupta, V., Kayina, H., Kansal, S., Rohatgi, P., Semwal, H., Solanki, R., Gandharv, S., Radhika, Rukhsaar, Bakshi, P. (Eds.) (2017). “Design Year Book (2015-2017)”, New Delhi: Elite Publishing House, ISBN: 978-81-88901-62-3.

#### **2015-2016**

- Goel S. (Ed.). (2016). Management of resources for sustainable development, New Delhi: Orient Blackswan Publication Private Limited. ISBN: 978-81-250-6349-0.
- Mital, M., Sawhney, H.K. (2015). Family Finance and Consumer Studies, Elite Publishing House Pvt. Ltd.

- Mital M., Jain, S., Mehta, C. (2015). Second Edition. Family finance and Consumer Studies: A Practical Manual. New Delhi: Elite Publishing House Pvt. Ltd. ISBN: 81-8890166-0.

### M.SC DISSERTATIONS

S.no.	Year	Title of Dissertation	Name of the Student	Name of supervisor
		<b>2020-2021</b>		
1.	2021	Circular approach to design rethinking: Special reference to cardboard and plastic bubble wrap packaging	Anmol Yadav	Dr. Sushma Goel Dr. Surbhi Chitkara
2.	2021	Sustainable behaviour adopted in the use of Home Furnishings: A study in residential units of Delhi NCR	Anukrit Dhanjal	Dr. T.G. Rupa Ms. Sakshi Wadhwa
3.	2021	KUND system of rainwater harvesting: A study in district Jhunjhunu, Rajasthan	Bhumika Choudhary	Dr. Meenal Jain Dr. Meenakshi Mital
4.	2021	Awareness generation regarding Solar Photo-Voltaic systems among residents of Burari	Gunjan Yadav	Dr. Meenal Jain Dr. Puja Gupta
5.	2021	A comparative study of furniture shopping modes in Delhi, NCR: Online Vs Offline	Hiral Jain	Ar. Anju Kakkar Dr. T.G. Rupa
6.	2021	Assessment of Efficacy of solid waste management in selected temples	Kanika	Dr. Sushma Goel Dr. Vaishali Gupta
7.	2021	Empowering Self Help Groups (SHG's) towards online marketing – A study in Delhi NCR	Lalita Rani	Dr. Puja Gupta Dr. Meenal Jain
8.	2021	Study of the Emerging Work from Home Trend: Challenges During Covid Times	Mahima Agarwal	Dr T.G. Rupa
9.	2021	An Appraisal of Physical Adaptations by Secondary School Students to Home	Manisha Singh	Dr. Mayanka Gupta

		Environment for Online learning		Dr. Sushma Goel
10.	2021	Strategies used by restaurants during COVID-19 pandemic: A study in Delhi NCR	Muskan Gupta	Dr. Meenakshi Mital Dr. Meenal Jain
11.	2021	Perspective of stakeholders towards organic food products: A study in Delhi	Nitika Agrawal	Dr. Puja Gupta Dr. Meenal Jain
12.	2021	Hybrid cars in Delhi NCR: A Stakeholders' perspective	Palak Gogia	Dr. Meenakshi Mital Dr. Meenal Jain
13.	2021	Study of Signage System used in Transportation Hubs of Delhi for Effective Information Transmission	Parul Yadav	Dr. T.G. Rupa
14.	2021	A Study of Biophilic Design Approach in Application of Interior Design Concepts	Shweta Thakur	Dr. Sushma Goel Dr. Sugandh Malhotra
15.	2021	Impact of COVID-19 outbreak on migrant workers in Uttar Pradesh	Simran Sethi	Dr. Shanta R. Kerketta Ms. Vishakha Sambhav
16.	2021	Empowering Stakeholders towards Star Labeled Appliances: A Study in Haridwar	Swati Sharma	Dr. Puja Gupta Dr. Meenal Jain
17.	2021	Online shopping behaviour of consumers during COVID-19 pandemic: A study in Delhi NCR	Tanu Sati	Dr. Meenal Jain Dr. Meenakshi Mital
18.	2021	Impact of Skill Building Initiatives on Economic Independence Among Women	Thuankimlakliu Chawang	Ar. Anju Kakkar Dr. Sushma Goel
19.	2021	Perspective of women towards biodegradable sanitary napkins: A study	Vaishali Nagar	Dr. Meenakshi Mital

		in Delhi NCR		Dr. Meenal Jain
20.	2021	Entrepreneurial development for the tribal women of Jharkhand	Vritika Kanwal	Dr. Shanta R. Kerketta
		<b>2019-2020</b>		
1.	2020	Workers' Well-being in Textile Industry : A study in Delhi NCR	Akansha Singh	Dr. Meenakshi Mital Dr. Meenal Jain
2.	2020	Workers' Well-being in Textile Industry : A study in Punjab	Ayushi Kanojia	Dr. Puja Gupta Dr. Meenal Jain
3.	2020	The grey project: suggestion for designing a specialized toolkit for doctors to investigate rape victims	Balpreet Kaur	Dr. Shanta R. Kerketta
4.	2020	Disaster Management Plan for Preparedness at Educational Institutions in Delhi, A Case Study	Bhakti Kashyap	Dr. Mayanka Gupta Dr. Awkash Kumar
5.	2020	Workers' Well-being in Textile Industry : A study in selected districts of Haryana	Chanchal	Dr. Meenakshi Mital Dr. Meenal Jain
6.	2020	Ergonomic risk factors for mobility impaired adults in ICT skill training centres	Deepa Lal	Ar. Anju Kakkar
7.	2020	Workers' Well-being in Textile Industry : A study in Haryana	Gurleen Ahuja	Dr. Meenakshi Mital Dr. Meenal Jain
8.	2020	Place-making in Urban Design: Focus on sustainable Landscaping	Irusha Bhardwaj	Dr. Sushma Goel Ms. Hriiyiphro Kayina
9.	2020	Workers' Well-being in Apparel Industry : A study in Delhi NCR	Kajal	Dr. Puja Gupta Dr. Rachna Dhingra
10.	2020	Emerging trends of co-working spaces in Delhi NCR: Stakeholders' perspective	Madhiha Zalem	Dr. T.G. Rupa Ms. Sakshi Wadhwa

11.	2020	Workers' Well-being in Apparel Industry : A study in selected districts of Haryana	Reena	Dr. Meenakshi Mital Dr. Meenal Jain
12.	2020	Maintenance Issues in High - Rise Residential Buildings	Ruchi Sharma	Ar. Anju Kakkar
13.	2020	Workers' Well-being in Apparel Industry : A study in Haryana	Sakshi Khanna	Dr. Puja Gupta Dr. Neelima Asthana
14.	2020	Sustainability in Interior Design Using the Concept of Refurbishing: A Study in Selected Restaurants of Delhi, NCR	Saveeraja	Dr. T.G. Rupa Ms. Vaishali Gupta
15.	2020	Ergonomic design of furniture for modern school classroom of Delhi	Shivani	Dr. Sushma Goel Dr. B. Biswal
16.	2020	Prevention through Design: Workplace Safety for Metal Workers in Small Enterprises	Tashi Gupta	Dr. Sushma Goel Dr. B. Biswal
17.	2020	Marketability of woven products made by tribal weavers in Manipur	Thanlina	Dr. Shanta R. Kerketta
18.	2020	Workers' Well-being in Apparel Industry : A study in Punjab	Vimmita	Dr. Puja Gupta Dr. Meenal Jain
		<b>2018-2019</b>		
1.	2019	An appraisal of classroom furniture design of Elementary classes in Schools: User perspective	Aisha Absar	Dr. Mayanka Gupta
2.	2019	An Appraisal of Emerging Trends in Corporate Event Marketing in Delhi and NCR	Anmol Gupta	Dr. T.G Rupa
3.	2019	Capacity building of stakeholders towards solid waste management in schools of Delhi NCR: An Action Research	Anshul Malik	Dr. Puja Gupta Dr. Priyanka Kulshreshtha

4.	2019	Assessment of government initiatives for solar water pumps in selected states: A stakeholders' perspective	Augya Singh	Dr. Meenakshi Mital Dr. Meenal Jain
5.	2019	New designs of Water Reed products and its marketability: a study of "Kouna" production in Manipur and its growing market	Chanbungbam Sushma	Dr. Shanta Rani Tirkey
6.	2019	Management of end-of-life mobile phones – A study	Diksha Sabharwal	Dr. Puja Gupta
7.	2019	Assessment of water management practices in selected schools of Delhi-NCR	Garima Singh	Dr. Meenakshi Mital Dr. Meenal Jain
8.	2019	Water ATMs in slums and resettlement colonies of Delhi: An exploration	Latika Chawla	Dr. Meenakshi Mital Dr. Meenal Jain
9.	2019	Commercial viability of woven products made by tribal weavers in Manipur	Lian Thiaching	Dr. Shanta Tirkey
10.	2019	An assessment of solar mini grids in rural India: A study in selected states	Mansangeet Patrai	Dr. Meenakshi Mital Dr. Meenal Jain
11.	2019	Effect of oxygen enriched air on performance of users	Monika Kumari	Dr. Puja Gupta Dr. Priyanka Kulshreshtha
12.	2019	Assessment of environment education component in teacher education curriculum: A stakeholder's perspective	Monika Mishra	Dr. Meenakshi Mital & Dr. Meenal Jain
13.	2019	Extended producer responsibility of polyethylene terephthalate bottle manufacturing companies: A study	Nitika Chandel	Dr. Puja Gupta
14.	2019	Role of street art in shaping the urban design of Delhi	Ritika Mudgal	Ms. Anju Kakkar
15.	2019	Socio-economic potential of upcycling of fabric scraps for development of products	Ritika Singh	Dr. Sushma Goel

		for interior design and decoration		
16.	2019	Design and development of interior elements using Oriented Strand Board as a primary material	Sanjana Bhteja	Dr. Sushma Goel
17.	2019	Customers satisfaction level on Visual Merchandising in emporium	Sheena Ansari	Ms. Anju Kakkar
18.	2019	Assessment of Green practices adopted by wedding planning companies of Bangaluru and Delhi	Stuti Jain	Dr. T.G Rupa
19.	2019	Assessment of infrastructure in selected township of Delhi NCR against smartness quotient	Sweety Thakur	Dr. T.G Rupa
20.	2019	Compliance with Safety Legislations for LED lighting Systems in India	Vrishti Arora	Dr. Sushma Goel & Dr. Rajat Mandal
		<b>2017-2018</b>		
1.	2018	Impact of non-tariff barriers on export of Indian agricultural products	Aastha Jain	Dr. Shanta Tirkey
2.	2018	Solution for the social problem of rash, speedy and drunken driving by the youth of India:Need of an hour	Aleena Malik	Dr. Shanta Tirkey
3.	2018	Customer and employee satisfaction in theme restaurants of Delhi	Aditi Kumar	Dr. Mayanka Gupta
4.	2018	Assessment of government initiatives for grid connected solar photovoltaic installations in educational institutions: A study in selected states	Akanksha Singhal	Dr. Meenakshi Mital Dr. Meenal Jain
5.	2018	Waste water treatment plants in Delhi: Prospects and Challenges	P.Onia Khrasi	Dr. Meenakshi Mital Dr. Meenal Jain

6.	2018	Assessment of perform,achieve and trade (PAT) cycle implementation in selected industries: Prospects and Challenges	Srishti Sharma	Dr. Meenakshi Mital Dr. Meenal Jain
7.	2018	Water borne disease amongst slum dwellers: An assessment	Anjali Thagela	Dr. Renuka Gupta
8.	2018	Impact of urbanization on urban villages	Anju Kushwaha	Ms. Anju Kakkar
9.	2018	Sustainable management of catering wastes of railways	Ayushi Singh	Dr. Sushma Goel
10.	2018	Role of sustainable infrastructure on property value and quality of life of residents	Minakshi Vasandani	Dr. Sushma Goel Ms. Jayshree Kurup
11.	2018	Concourse design in public spaces to allure visitors: A study in selected malls of Delhi	Garima Aggarwal	Dr. T.G.Rupa
12.	2018	Refurbishing as an emerging concept in designing of furniture	Palak Jain	Dr. T.G.Rupa
13.	2018	Assessment of employee workplace interaction in corporate offices	Sakshi Mishra	Dr. T.G.Rupa
14.	2018	Issues and concerns of living in affordable housing societies	Honey Dayal	Ms. Anju Kakkar
15.	2018	Energy service companies for energy efficiency in commercial buildings: A stakeholder's perspective	Manaswi Singha	Dr. Meenakshi Mital Dr. Puja Gupta Dr. Meenal Jain
16.	2018	Capacity building of youth on installation and maintenance of solar rooftops	Pooja Mishra	Dr. Puja Gupta
17.	2018	Skilling of youth on Solar Technology: An action research	Smriti Gupta	Dr. Puja Gupta Ms. Vishakha Sambhav
18.	2018	Solid waste management practices in educational institutions: A perspective	Yusra Rafiq	Dr. Puja Gupta
19.	2018	Disability audit of Lady Irwin College	Nayab Parveen	Dr. Renu Malaviya



		buildings		
20.	2018	Impact of social media advertisement on the buying behaviour of the adolescent	Pooja Choudhary	Dr. Neelima Asthana
		<b>2016-2017</b>		
1.	2017	Vermicomposting at Home Level.	Aishwarya Bhatia	Dr. Renuka Gupta
2.	2017	Improvisation of water management practices in Delhi: An action research	Akansha Sharma	Dr. Puja Gupta, Dr. Arun Kumar, Dr. Priyanka Kulshreshtha
3.	2017	A comparative study of teacher interns and in-service teachers' perception regarding sustainable development and its related issues.	Akshata Verma	Dr. Neelima Asthana
4.	2017	Management of construction and demolition waste in Delhi NCR: An Exploration	Ankita Rai	Dr. Meenakshi Mital Prof. Matt Syal, Mr. Neeraj Kapoor
5.	2017	Comparative Assessment of liveability of Sohna South City (Gurgaon) and Rohini (Delhi): Users' Perspectives.	Himanshi	Dr. Sushma Goel
6.	2017	Management of construction and demolition waste in Delhi NCR: A stakeholder's perspective.	Mitali Yadav	Dr. Puja Gupta Prof. Matt Syal and Mr. Neeraj Kapoor
7.	2017	An Assessment of Effectiveness of Facility Management at Anaganwadi Centres In Delhi.	Palak Rohatgi	Dr. Sushma Goel
8.	2017	Challenges In Conservation of Urban Heritage Buildings: Citizen's Initiatives.	Priyanka Bakshi	Mrs. Anju Kakkar
9.	2017	Impact of heavy school bags on school going children at primary level: an appraisal.	Radhika	Dr. T.G Rupa

10.	2017	Distribution of tropospheric ozone and its co-relation with its precursors: a case study of Delhi.	Rakhi Ghosh	Dr. Puja Gupta Dr. Priyanka Kulshreshtha And Prof. Mukesh Khare
11.	2017	Availability of furniture for mobility impaired working adults: user's perspective.	Ruby Solanki	Mrs. Anju Kakkar
12.	2017	A Study of User Preference, Use Pattern and Satisfaction of Neighbourhood Parks in Delhi.	Rukhsaar	Dr. Mayanka Gupta
13.	2017	Assessment of skill development programme for women: Prospects and challenges.	Shrayoshi Choudhary	Dr. Meenakshi Mital Ms. Manisha Mishra
14.	2017	Design Considerations for space and furniture in paying guest accommodations for students in Delhi.	Shreshtha Kansal	Dr. T.G Rupa
15.	2017	Temporary living arrangements of shelterless persons in Delhi: Issues and challenges.	Sonali Gandharv	Dr. Sushma Goel
16.	2017	Municipal waste handling plants in Delhi: Prospects and challenges.	Sumedha Awasthy	Dr. Meenakshi Mital Prof. Matt Syal
		<b>2015-2016</b>		
1.	2016	Assessment of clean energy intervention of indoor air quality in rural households of Odisha	Akansha Gupta	Dr. Meenakshi Mital Mr R Suresh
2.	2016	Transportation planning credits in green townships rating system - A perspective	Chetna Singh	Dr. Meenakshi Mital Ms. Anchal Aggarwal
3.	2016	Study on the effect of PM 2.5 and PM 10 on indoor-outdoor air quality in urban and rural area schools	Damini Singh	Dr. Neelima Asthana

4.	2016	Effectiveness of safe drinking water and utilisation of discarded water from Reverse Osmosis System	Deepika Prasad	Dr. Renuka Gupta
5.	2016	Eco-sustainable dishwashing practices by households and food catering units: An exploration	Gursimar kaur Chandhok	Dr. Sushma Goel
6.	2016	Customer's perception on buying online interior products	Harshita Saini	Ms. Anju Kakkar
7.	2016	Practices in the utilisation and handling of hazardous waste in small scale industries	Himanshi	Dr. Sushma Goel Mr. Bharat Kumar Sharma
8.	2016	An exploratory study of functional application of pine sheddings in the hills of Kumaon region, Utrakhand	Kratika Sharma	Dr. T.G. Rupa
9.	2016	Waste paper management practices in schools of Delhi	Lavina Chawla	Dr. Neelima Asthana
10.	2016	An assessment of indoor air quality(IAQ) in metal industries of Delhi	Malvika Khullar	Dr. Puja Gupta
11.	2016	SWOC analysis of potters living in Prajapati Colony, Delhi	Manpreet Kaur	Ms. Anju Kakkar
12.	2016	Assessment of ergonomic issues among dairy farmers in Gazipur, Uttar Pradesh	Natasha Sharma	Dr. T.G. Rupa
13.	2016	Harnessing indigenous technical knowledge for pest management in pea crop	Neha Makol	Dr. Puja Gupta
14.	2016	Changes in aesthetical styles of office building facades from 1950 onwards: An assessment	Priyanka Saini	Ms. Anju Kakkar
15.	2016	Improving indoor air quality(IAQ) through adoption of cleaner technology and alternate fuel	Saumya Jain	Dr. Puja Gupta
16.	2016	Solar power plant at DMRC stations-an	Shruti Jain	Dr. Meenakshi Mital

		assessment of RESCO model		
17.	2016	Role of interiors in enhancing the eating experience of customers in cafes of Delhi/NCR	Shubhani Agarwal	Dr. T.G. Rupa
18.	2016	Effectiveness of compostable carry bags for biodegradable household waste	Yashika Grover	Dr. Sushma Goel Dr. S.K. Nigam
		<b>2014-2015</b>		
1.	2015	A Study of Student's Environmental Knowledge, Attitude and Behaviour and Role of School Waste Recycling Programme	Bhavya Verma	Dr. Neelima Asthana
2.	2015	Emerging Trends in Green Landscape Practices: An Overview	Deepika Gaur	Dr. T. G. Rupa
3.	2015	Pilot Study on Adolescent Health Education	Devyani Lingwal	Dr. Renuka Gupta
4.	2015	A Study of Green Initiatives Adopted by MSME Sector in Energy Conservation	Isha Raheja	Dr. Puja Gupta
5.	2015	Green Branding in Real Estate Industry: A Perspective	Mansi Nagpal	Dr. Meenakshi Mital Mr. Varun Potbhare
6.	2015	Assessment of Economic Opportunities Available to Farmer Labourers Involved in Floriculture in Imphal and Hengbung (Senapati District), Manipur	Ng Rosone	Dr. Sushma Goel
7.	2015	Corporate Social Responsibility by FMCG Sector: A Perspective	Nikita Chaddha	Dr. Puja Gupta
8.	2015	Climate Responsive Architecture: A Study of Housing Practices in Selected Districts of Himachal Pradesh	Nikita Sharma	Dr. T. G. Rupa Prof. Manoj Mathur
9.	2015	Resource Efficiency of Urban Slum Settlements in NCT of Delhi	Nisha Jha	Dr. Sushma Goel
10.	2015	Capacity Building Program for Sustainable Practices (Waste Management, Energy Efficiency and Water Conservation) in Household: A Study of BHEL colony, Ranipur, Haridwar	Pooja Prasad	Ms. Anju Kakkar
11.	2015	Design of Classroom Furniture for College Students: Ergonomics and other issues	Poonam Yadav	Dr. Renu Malaviya

12.	2015	Green Marketing: A Perspective of Consumers and Traders	Prabhleen Kaur	Dr. Neelima Asthana
13.	2015	Water ATMs in Delhi: An Exploratory Study	Preksha Dhingra	Dr. Meenakshi Mital
14.	2015	Carbon Footprints of Cremation	Priyanka Nimesh	Dr. Renuka. Gupta
15.	2015	Lighting in Institutions: Perception of Students & Faculty Members	Savahat	Dr. Renu Malaviya
16.	2015	Waste Management Practices Followed in Schools and Colleges	Shivangi Joshi	Dr. Neelima Asthana
17.	2015	Indoor Environmental Quality Credits in Green Buildings in India	Subodhika Vohra	Dr. Meenakshi Mital Mr. Varun Potbhare
18.	2015	Evolution of Design Centric Kitchen	Tanya Ahuja	Ms. Anju Kakkar
19.	2015	Impact of Entrepreneurship Education on Behavioural Intention	Tapasya Sharma	Dr. Puja Gupta
20.	2015	Use, Reuse and Recycling of Disposables: An Appraisal	Tarandeep Kaur	Dr. Sushma Goel
21.	2015	Occupational Health and Safety of Workers in the Wood Industry in Delhi, NCR Regions	Varsha Arora	Dr. T. G. Rupa
22.	2015	Prospects and Challenges of Using Bamboo in Interiors	Victoria Kizao	Ms. Anju Kakkar

### STUDENTS AWARDED PHD

S.No.	Date of Completion	Title of Research	Name of Scholar	Name of Supervisor/s
1	2021	Assessment of eco-sustainable practices for e-waste management	HARVEEN KAUR	Dr. Sushma Goel
2	2021	Mahatma Gandhi National Rural Employment Guarantee Scheme and Livelihood Security: A Study in Manipur	SHISHI KHAWLNEIKIM	Dr. Meenakshi Mital
3	2021	Role of stakeholders in eco-efficient practices towards packaging materials used for fast moving consumer goods (FMCG)	SURBHI CHITKARA	Dr. Sushma Goel

4	2021	Knowledge, attitude and practices among eco-club students in Delhi schools towards solid waste management	VAISHALI GUPTA	Dr. Sushma Goel Dr. T.G. Rupa
5	2019	Relationship between emotional value and retention of products: A study with reference to chair and wedding attire	HRIIYIPHRO KAYINA	Dr. Sushma Goel
6	2019	An exploratory study of consumer engagement on purchase in branded retails: Physical stores and online portals	ISHITA SACHDEVA	Dr. Sushma Goel Dr. Audesh Paswan
7	2019	Capacity Building of Construction Professionals on Green Buildings	RACHNA DHINGRA	Dr. Puja Gupta
8	2019	Assessment of carbon footprint & water footprint of garment manufacturing units under OGTC	SHIVANI BATRA	Dr. Sushma Goel
9	2017	Capacity Building for Energy Management	GAGANPREET KAUR	Dr. Puja Gupta Prof. Matt Syal
10	2017	Assessment of Government initiatives in Off-Grid Solar Applications for Commercial Establishments in selected states of India: A Stakeholders' Perspective	MEENAL JAIN	Dr. Meenakshi Mital Prof. Matt Syal
11	2017	Renewable energy options among rural households	SUPRIYA	Dr. Sushma Goel
12	2015	Development of Intrapreneurial Capacity Building Module	CHARVI MEHTA	Dr. Puja Gupta Dr. Meenakshi Mital
13	2015	Quality of Life of Elderly in Old Age Homes and Recreation Centres	MAYANKA GUPTA	Dr. Sushma Goel

14	2015	Assessment of 'Sarva Siksha Abhiyan' in government schools of Delhi	SAKSHI JAIN	Dr. Meenakshi Mital
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#### STUDENTS WITH ONGOING PHD

S.NO	Date of registration	Title of the research	Name of the Student	Name of Supervisor/s
1	21.01.2021	Assessment of CSR initiatives of organizations for sustainable production	KAMINI BAJAJ	Dr. Sushma Goel
2	12.04.2021	Role of extended producer responsibility in plastic waste management in India	GEETIKA MISHRA	Dr. Puja Gupta
3	28.11.2018	Assessment of solar skill development programs: A multistakeholder perspective	CHETNA SINGH	Dr. Meenakshi Mital Dr. Puja Gupta Prof. Matt Syal
4	28.11.2018	Assessment of solar government initiatives in residential areas in India	NEHA MAKOL	Dr. Puja Gupta Dr. Meenakshi Mital Prof. Matt Syal
5	26.11.2018	Role of Urban Local Bodies in Plastic Waste Management: A study in selected areas of Delhi	RASHMI DHASMANA	Dr. T.G. Rupa
6	23.04.2018	Capacity building towards IAQ: A study in schools of Delhi	SHEFALI CHOPRA	Dr. Puja Gupta Dr. Meenakshi Mital
7	21.11.2017	Assessment of health and safety of construction workers	MANEESHA GAUR	Dr. Sushma Goel
8	12.06.2015	Assessment of Skill Development Initiatives of Industrial Training Institutes (ITIs) in Delhi: Stakeholders' Perspective	SONIA BANSAL	Dr. Meenakshi Mital Dr. Puja Gupta