

**Report of  
Department of  
Food Science (2019-20)**



**Mehr Chand Mahajan  
DAV College for Women**

**Sector-36, Chandigarh**

**[www.mcmdavcwchd.edu.in](http://www.mcmdavcwchd.edu.in)**

**Department Name: Department of Food Science**

Session: 2019-20

**Names of Programmes/Courses/ offered:**

BSc.(Microbial and Food Technology) –Three year Degree Program

**Faculty Publications /Awards/Achievements/Activities:****Dr. Vandana Sharma:**

- Published international review paper titled “Effect of Probiotic Intervention in Ameliorating the Altered Central Nervous System Functions in Neurological Disorders: A Review” in International scopus indexed journal “The Open Microbiology Journal” in Jan 2020.

The citation is : “Sharma V, Kaur S. Effect of Probiotic Intervention in Ameliorating the Altered Central Nervous System Functions in Neurological Disorders: A Review. The Open Microbiology Journal 2020; 14(1):18-29. DOI: 10.2174/1874285802014010018.”

- Published paper titled “Effect of Pre-treatment on the Solid State Anaerobic Digestion of Willow Dust” in UGC listed journal –“Studies in Indian Place Names” in March 2020.Citation is as follows: Kaur S, Sharma V. Effect of Pre-treatment on the Solid State Anaerobic Digestion of Willow Dust. Studies in Indian Place Names 2020; Vol.40:234-246.
- Published international Book chapter “International Book Chapter titled: Prophylactic and Therapeutic Role of Human Breast Milk Proteins and Bioactive Peptides against Neonatal Bacterial Infections ((May13,2020;DOI:10.5772/intechopen.91865) in book :Breastfeeding and Formula Feeding Infants (Web of Science citation indexed).
- Resource person in Two days Hands on Training workshop on “Cultivation of Oyster Mushroom” during training workshop held by Department of Food Science , MCM DAV College for Women Chandigarh (13th - 14th March 2019).
- Paper presented on “Mapping Sustainability Initiatives : Step towards Green Campus” at One day National Seminar on Sustainable Rural Livelihood Opportunities and Challenges organized by Department of Agriculture, GGSDS College, Haryana, Punjab on 07 March 2020.
- Oral paper presentation on “Effect of Pre-treatment on the Solid State Anaerobic Digestion of Willow Dust” at ICSSR sponsored two Day International Conference on ‘Roadmap to Sustainability: Environment and Health’ held at Khalsa College , Chandigarh on 05 th March and 06 th March 2020.
- Paper Presented on “Mushroom Cultivation: A Sustainable Approach for Microenterprise” at Third International Multi-Stream Conference on Future Developments through Skill and Innovations at Gujranwala college, Ludhiana on 19 Jan 2020.

- Attended DST (SERB)-PGIMER Workshop entitled “Identification of Medically Important Fungi By Conventional and Molecular Methods” on 16<sup>th</sup> December, 2019.
- Attended Consultative Workshop on ‘Practices of Comprehensive Sanitation Management under Swachhta Action Plan- Engaging Higher Education Institutions held at CPDHE, UGC-HRDC, New Delhi organized by MGNCRE, MHRD Govt. of India on 4<sup>th</sup> September 2019.
- Coordinator of DBT-CTEP, Ministry of Science and Technology, Govt. of India sponsored (Grant of 2 lakh) Biotechnology Popularization Programme “ Venturing into Hues of Biotechnology: Innovations and Applications” held on 18 September, 2019 at Mehr Chand Mahajan DAV College for Women, Chandigarh.
- Resource person for delivering lecture in DBT-CTEP, Ministry of Science and Technology, Govt. of India sponsored Biotechnology Popularization Programme “ Venturing into Hues of Biotechnology: Innovations and Applications” held on 18 September, 2019 at Mehr Chand Mahajan DAV College for Women, Chandigarh.
- Resource person for imparting hands on training on "Mushroom cultivation" and "In House compositing" at Village Butrella" in Summer Internship 2019.
- Acted as Nodal officer for **Open Defecation Free (ODF) drive** for two villages [Butrella & Bhadheri] ; Swachhta Action Plan-2019 under the aegis of MHRD, Government of India in association with Mehr Chand Mahajan DAV College for Women, Chandigarh.
- Paper presented titled, “A Sustainable Approach for Microenterprise” in 3<sup>rd</sup> International Conference on “Developments through Skill and Innovations” organized by GGNIM&T, Ludhiana on 15 February, 2020.
- Attended 30 hours Workshop on “Apache Open office” in Mehr Chand Mahajan DAV College for Women, Chandigarh from 3-9 January 2020.
- Attended Short Term Course on “Developing Massive Open Online Courses” organized by UGC-Human Resource Development Centre, P.U. Chandigarh from 27.12.2019 to 02.01.2020.
- Attended National webinar on ‘Revised NAAC Assessment and Accreditation: Nurturing Quality Culture organized by IQAC Cluster India in association with Yogeshwari Mahavidyalaya, Ambajogai from 8.5.2020-11.5.2020.
- Participated in National webinar on ‘Exploring and Understanding COVID-19 in Current Scenario’ on 11.6.2020.
- Attended 17 online sessions conducted by Institution’s Innovation Council (IIC) of MHRD’s Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship and Start up among HEI’s from 28.4.2020-22.5.2020.
- Participated in 6 day’s FDP on ‘ Managing Virtual Classrooms and Open Educational Resources’ organized by Centre for Academic Leadership and Education Management (CALEM), Panjab University, Chandigarh under the aegis of PMMMNTT, MHRD, Govt. of India in collaboration with SWAYAM Cell, Panjab University, Chandigarh from June 24-29, 2020.
- Actively mentored and supervised 26 students for participation in oral and poster presentation at ICSSR sponsored Two Day International Conference on ‘Roadmap to

Sustainability: Environment and Health' held at SGGGS College Sector 26, Chandigarh on 05<sup>th</sup> and 06<sup>th</sup> March 2020.

- Actively mentored and supervised students for participation in Idea Competition organized by Institutional Innovation Council (IIC), Mehr Chand Mahajan DAV College for Women, CHD. Aditi Bhagat got secured first position in the Idea competition for her idea titled “Mycofoam Packaging - An alternative to Styrofoam” was related to waste management and sustainable development.
- Actively mentored and supervised BSc.(MFT) students for participation in “Call for IDEAS: **Fighting COVID-19 Online IDEathon Competition** by ICMR-Centre for Innovation and Bio-Design (CIBioD) and Institutional Innovation Cell (IIC), Mehr Chand Mahajan DAV College for Women, Chandigarh. Also presented project idea titled : “COVID-19 Community Monitoring and Tracking through Sewage Surveillance” which was selected and entered phase-1 and Phase-2 for further evaluation by experts.

#### **Dr. Sandeep Kaur:**

- **Selected as Associate Editorial Board Member of “The Open Microbiology Journal”**[Scopus indexed, UGC Care Listed] -Bentham Open from 2019-2021.
- Peer reviewer of two international journals “Expert Opinion on Biological Therapy and “Expert Review of Anti-infective Therapy”.
- Awarded with **Young Achiever Award** 2019 from "Institute of Scholars"ISO: 9001:2015 certified Institute by International Accurate certification ; Accredited by UASL.
- Published international review paper titled “Effect of Probiotic Intervention in Ameliorating the Altered Central Nervous System Functions in Neurological Disorders: A Review” in International scopus indeed journal “The Open Microbiology Journal” in Jan 2020.  
The citation is : “Sharma V, Kaur S. Effect of Probiotic Intervention in Ameliorating the Altered Central Nervous System Functions in Neurological Disorders: A Review. The Open Microbiology Journal 2020; 14(1):18-29. DOI: 10.2174/1874285802014010018.”
- Published paper titled “ Effect of Pre-treatment on the Solid State Anaerobic Digestion of Willow Dust” in UGC listed journal –“Studies in Indian Place Names” in Marh 2020.  
Citation is as follows: Kaur S, Sharma V. Effect of Pre-treatment on the Solid State Anaerobic Digestion of Willow Dust. Studies in Indian Place Names 2020; Vol.40:234-246.
- Published international Book chapter “International Book Chapter titled: Prophylactic and Therapeutic Role of Human Breast Milk Proteins and Bioactive Peptides against Neonatal Bacterial Infections ((May13,2020;DOI:10.5772/intechopen.91865) in book :Breastfeeding and Formula Feeding Infants (Web of Science citation indexed).
- Resource person in Two days Hands on Training workshop on “Cultivation of Oyster Mushroom” during training workshop held by Department of Food Science , MCM DAV College for Women Chandigarh (13th - 14th March 2019).

- Invited to deliver lecture Extension lecture series in Department of on Biotechnology, Post Graduate Government college(PGGC-11) Sector -11, Chandigarh on 4th Sep, 2019.
- As Resource person Delivered lecture on “IPR and Patents: Bridging gap between basic science and applied science” in One Day National Webinar On “Intellectual Property Rights in Life Sciences” on 28th Jan 2020 organised by Microbiologists Society, India in Collaboration with Yashwantrao Chawhan Arts, Science College, Lakhandur and Arts and Science College, Pulgaon.
- Paper presented on “Mapping Sustainability Initiatives : Step towards Green Campus” at One day National Seminar on Sustainable Rural Livelihood Opportunities and Challenges organized by Department of Agriculture, GGSDS College, Haryana, Punjab on 07 March 2020.
- Oral paper presentation on “Effect of Pre-treatment on the Solid State Anaerobic Digestion of Willow Dust” at ICSSR sponsored two Day International Conference on ‘Roadmap to Sustainability: Environment and Health’ held at Khalsa College , Chandigarh on 05 th March and 06th March 2020.
- Paper Presented on “Mushroom Cultivation: A Sustainable Approach for Microenterprise” at Third International Multi-Stream Conference on Future Developments through Skill and Innovations at Gujranwala college, Ludhiana on 19 Jan 2020.
- Co-ordination committee member for organizing National DBT-CTEP Biotechnology Popularization Programme, under the aegis of DBT, GOI on 18 Sep 2019.
- Co-ordinator of Six days Workshop on Nutrition and Diet Skills (31<sup>st</sup> May, 2019 – 6<sup>th</sup> June, 2019).
- Co-ordinator of 19<sup>th</sup> National level Microbiology Olympiad-2020 –Online test on 25 Jan 2020 involving 41 students of BSc. I, II and III year .
- Actively mentored and supervised 26 students for participation in oral and poster presentation at ICSSR sponsored Two Day International Conference on ‘Roadmap to Sustainability: Environment and Health’ held at SGGGS College Sector 26, Chandigarh on 05<sup>th</sup> and 06<sup>th</sup> March 2020.
- Actively mentored and supervised students for participation in Idea Competition organized by Institutional Innovation Council (IIC), Mehr Chand Mahajan DAV College for Women, CHD. Aditi Bhagat got secured first position in the Idea competition for her idea titled “Mycofoam Packaging - An alternative to Styrofoam” was related to waste management and sustainable development.
- Actively involved in guiding and mentoring 50 students of BSc.(MFT)III year for Engaging students in online 55 hours distance learning course titled “General Course on Intellectual Property DL-101” certified by World Intellectual Property Organization (WIPO), Geneva who successfully completed and secured more than 80% marks in final exam thus receiving digital certificates from WIPO.
- Actively mentored and supervised BSc.(MFT) students for participation in “Call for IDEAS: **Fighting COVID-19 Online IDEathon Competition** by ICMR-Centre for Innovation and Bio-Design (CIBioD) and Institutional Innovation Cell (IIC), Mehr Chand Mahajan DAV College for Women, Chandigarh. Also presented project idea titled :

“COVID-19 Community Monitoring and Tracking through Sewage Surveillance” which was selected and entered phase-1 and Phase-2 for further evaluation by experts.

**Dr. Shruti Puri:**

- Co-ordination committee member for organizing National DBT-CTEP Biotechnology Popularization Programme, under the aegis of DBT, GOI on 18 Sep 2019.
- Co-ordinator of Six days Workshop on Nutrition and Diet Skills (31<sup>st</sup> May, 2019 – 6<sup>th</sup> June, 2019).
- “Board member” of Publons indexed open access peer review International Journal: “Acta Scientific Nutritional health”.
- Peer Reviewer of Scopus indexed UGC approved open access peer review International Journal: “Current Research in Nutrition and Food Science”.
- Organized Industrial Visit to Bonn Nutrients Private Limited, S.S. Food Industries, Ludhiana involving 55 students of B.Sc 2<sup>nd</sup> year MFT on 12 March, 2020.

**Publications details of Shruti Puri:**

<b>Title of Study</b>	<b>Journal Title</b>	<b>Publication on</b>
Comparative study of single cell protein production by utilizing different fruit and vegetable wastes. 8(1): 4-6	European Journal of Biotechnology and Bioscience; ISSN: 2321-9122	Jan 2020
Nutritional and Quality analysis of quinoa seed flour fortified wheat biscuits. 7(1): 48-52	Asian Pacific journal of health sciences.e-ISSN 2349-0659; p-ISSN 2350-0964	Jan 2020
Evaluation of nutritional value of snacks prepared by fortification of gram flour with chia seeds. 6(1): 35-39	International journal of home science ; ISSN 2395-7476	Jan 2020

**Dr. Gurpreet Kaur**

- Co-ordination committee member for organizing National DBT-CTEP Biotechnology Popularization Programme, under the aegis of DBT, GOI on 18 Sep 2019.
- Co-ordinator of Six days Workshop on Nutrition and Diet Skills (31<sup>st</sup> May, 2019 – 6<sup>th</sup> June, 2019).

**Dr. Deepika Malik:**

- Co-ordination committee member for organizing National DBT-CTEP Biotechnology Popularization Programme, under the aegis of DBT, GOI on 18 Sep 2019.
- Organized Industrial Visit to Bonn Nutrients Private Limited, S.S. Food Industries, Ludhiana involving 55 students of B.Sc 2<sup>nd</sup> year MFT on 12 March, 2020.
- Co-ordinator of 19<sup>th</sup> National level Microbiology Olympiad-2020 –Online test on 25 Jan 2020 involving 41 students of BSc. I, II and III year .

**Student Achievements :**

<b>Name and Roll No. of the Student</b>	<b>Name of the Award/Project/Position</b>	<b>Name of the Agency/University</b>	<b>Month/Year</b>
Aditi Bhagat (5004); BSc.(MFT)-III year	First prize in Idea Competition Topic: Fungal Mycelium-An alternative to plastic packaging	Idea Competition organized by Institutional Innovation Council under the aegis of MHRD Innovation cell, MCM DAV College for Women, Chandigarh	06 <sup>th</sup> March 2020
Aditi Bhagat(5004); BSc.(MFT)-III year	Idea and Project on “EFFICIENT AND LOW COST SALT COATING METHOD TO DECONTAMINATE PPEs FOR THEIR REUSE” Selected for CIBioD IDEATHON COVID 19 in Phase I, II and III.	ICMR CIBioD, PGI	6 <sup>th</sup> May 2020
Shania Saini (5010); BSc.(MFT)-III year	Idea has been shortlisted in Phase 1 " <b>Title of Idea:</b> “USE OF TELEMEDICINE TO AVOID COVID-19 TRANSMISSION TO HEALTHCARE WORKERS”	ICMR CIBioD, PGI	13 <sup>th</sup> April 2020
Manjot Kaur (5038) , IshitaPabbi (5023) and KomalLadhaar (5040) BSc.(MFT)-III year	First prize in poster presentation contest held as part of DBT-CTEP Biotechnology Popularization Programme. <b>Topic: Human organs on Chips</b>	National DBT-CTEP Biotechnology Popularization Programme, Under the aegis of DBT, GOI.	18 <sup>th</sup> Sept 2019



Shania Saini (5010) and Simerpreet Kaur (5047) BSc.(MFT)-III year	Second prize in poster presentation contest held as part of DBT-CTEP Biotechnology Popularization Programme.  <b>Topic:</b> Overview on Nanogel Technology	National DBT-CTEP Biotechnology Popularization Programme, Under the aegis of DBT, GOI.	18 Sept 2019
Priya Khurana (5914); BSc.(MFT)-III year	2 <sup>nd</sup> position in poetry competition held under Swachhata Programme 2019  Topic: Sustainable Sanitation	Swachhata Pakhwada 2019	Sep 2019
Seeya Arora (4809); BSc.(MFT)-I year	First Prize in Scientific Videography	Science Fest 2020 organized by MCM DAV College for Women, Chandigarh sponsored by DBT, GOI.	17 Feb 2020
Kashish Agarwal (4875)  BSc.(MFT)-I year	First Prize in MCM Ideathon, Science in Action	“Science in Action”- MCM Ideathon organized by MCM DAV College for Women, Chandigarh, sponsored by Department of Science and Technology and Renewable Energy, Chandigarh Administration	7 <sup>th</sup> Feb 2020
Nitigya Shridhar, BSc.(MFT)-I year	Second Prize in MCM Ideathon, Science in Action	“Science in Action”- MCM Ideathon organized by MCM DAV College for Women, Chandigarh, sponsored by Department of Science and Technology and Renewable Energy, Chandigarh Administration	7 <sup>th</sup> Feb 2020



Manvi Jindal (5002) and Vanshika Tiwari (5048); BSc.(MFT)-III year	3rd position in poster competition in “Science in Action”  <b>Topic :</b> Flowers as food source	“Science in Action”- MCM Ideathon organized by MCM DAV College for Women, Chandigarh, sponsored by Department of Science and Technology and Renewable Energy, Chandigarh Administration	07 <sup>th</sup> Feb 2020
Seerat Kaur B.Sc (MFT)-II Year	First Prize in Inter-College Online Scientific Poster Making Contest	MCM DAV College for Women, Chandigarh	18 May,2020
Jhanvi Trehan (5085) and Ramanpreet Kaur (4979) of BSc.(MFT)-III year, Batch 2016-2019	International Publication titled “Evaluation of nutritional value of snacks prepared by fortification of gram flour with chia seeds” in peer reviewed journal.	Published in International Journal of Home Science ; ISSN 2395-7476	Jan 2020
Kulveer Kaur (5081) and Ananya Talwar (4985) of BSc.(MFT)-III year, Batch 2016-2019	International Publication titled “Nutritional and Quality analysis of quinoa seed flour fortified wheat biscuits “ in international peer-reviewed journal Asian Pacific journal of health sciences.	Published in Asian Pacific journal of health sciences. e-ISSN 2349-0659; p-ISSN 2350-0964	Jan 2020
Mandeep Kaur (5046), Simrat Kaur Virk (5049) and Mahima Choudhary (5031) of BSc.(MFT)-III year	International Book Chapter titled: "Prophylactic and Therapeutic Role of Human Breast Milk Proteins and Bioactive Peptides against Neonatal Bacterial Infections" (DOI:10.5772/intechopen.91865)	Published by IntechOpen, Europe leading Web of Science indexed publisher	Published on 13 May,2020
26 students of <b>BSc.(MFT)-III year</b>	Active participation in research based oral and poster presentation at ICSSR sponsored Two Day International Conference on ‘Roadmap to Sustainability:	Indian Council of Social Science Research (ICSSR) sponsored Two day International Conference held at	05 <sup>th</sup> and 06 <sup>th</sup> March 2020

	Environment and Health' held at SGGS College Sector 26, Chandigarh.	SGGS College, Chandigarh	
19 students of BSc.(III)year	Successfully completed online Distance learning course titled "General Course on Intellectual Property DL-101" certified by World Intellectual Property Organization (WIPO), Geneva and secured more than 80% marks in final exam thus receiving digital certificates from WIPO.	World Intellectual Property Organization (WIPO), Geneva.	10 <sup>th</sup> Feb 2020 - 5 <sup>th</sup> April
Chestha (4925), Ramandeep Kaur(4958) and Mehakleen Kaur (4978)	Selected for Short attachment research training course by ICMR-Centre for Innovation and Bio-Design (CIBioD).	ICMR Centre for Innovation and Bio-Design (CIBioD), New Delhi, Govt. of India.	Selection mail received on 31 May 2020
19 students of BSc.(MFT)-III year	Cleared exam for the Distance learning course certified by World Intellectual Property Organization (WIPO), Geneva titled " <b>General Course on Intellectual Property DL-101</b> "	World Intellectual Property Organization (WIPO), Geneva	06 <sup>th</sup> April 2020
06 students of BSc.(MFT)-III year; 07 Students of BSc.(MFT)-II year and 04 Students fo BSc.(MFT)-I year	Received e-certificates for cracking Online national level quiz titled " <b>Corono Gyan</b> " held by Deendayal Upadhyaya college, University of Delhi, under aegis of National Science Foundation.	Deendayal Upadhyaya college, University of Delhi, under aegis of Science Foundation	02 <sup>nd</sup> -03 <sup>rd</sup> July 2020