

Report of Microbial & Food Technology Department (2018-19)



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

www.mcmdavcw-chd.edu

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1. **Name of the Department:** Department of Food Science
2. **Year of Establishment:** 2006
3. **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters etc.)**

Name of the Programme/ Course	Class	Subjects
UG (Degree Course)	B. Sc. (Microbial and Food Technology)	Microbiology, Food Technology, Chemistry, English, HCP/Punjabi, Environment Science

4. **Number of teaching posts:**

Permanent	
Associate Professors	00
Assistant Professors	02
Contractual	
Assistant Professors	04

5. **Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt/Ph.D./M.Phil. etc.)**

S. No.	Name	Designation	Qualification	Specialization	Experience (Yrs)
1.	Dr. Geeta Mehra	Assistant Professor	M.Sc., ICAR NET, Ph.D.	Food Technology	13 Years (Teaching)
2.	Dr. Vandana Sharma	Assistant Professor	M.Sc. (Hons.), Ph.D.	Microbiology	18 Years (Teaching)
3.	Dr. Sandeep Kaur	Assistant Professor (Contractual)	M.Sc. (Hons.), NET, Ph.D.	Microbiology	2 Years (Teaching) + 5.4 Years (Industrial)
4.	Dr. Ruchi Chauhan	Assistant Professor (Contractual)	M.Sc., NET, Ph.D.	Microbiology	2 Years
5.	Dr. Bindu	Assistant Professor (Contractual)	M.Sc., NET, Ph.D.	Food Technology	1 Years
6.	Dr. Sucheta	Assistant Professor (Contractual)	M.Sc., NET, Ph.D.	Food Technology	None

6. 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	Month/Year	PEER Reviewed/ Refereed	UGC/CARE Enlisted (Yes/No)	URL
Dr. Geeta Mehra (Permanent)	Making FSSAI Food Adulterants Detection Guidelines Accessible to Masses: A Case Study on Training Various Strata of Food Vendors and Handlers as an Extension of Responsible Research and Innovation	International Journal of Engineering Technology Science and Research (ISSN: 2394-3386)	May, 2018	Yes	No	http://www.ijetsr.com
Dr. Sandeep Kaur (Contractual)	Transfersomal Phage Cocktail is an Effective Treatment against Methicillin-Resistant <i>Staphylococcus aureus</i> -Mediated Skin and Soft Tissue Infections	Antimicrobial Agents and Chemotherapy (Print ISSN: 0066-4804; Online ISSN: 1098-6596)	Sep, 2017	Peer Reviewed	Yes	https://doi.org/10.1128/aac.02146-16
Dr. Sandeep Kaur (Contractual)	Liposome Entrapment of Bacteriophages Improves Wound Healing in a Diabetic Mouse MRSA Infection	Frontiers in Microbiology (ISSN, 1664302X)	March, 2018	Peer Reviewed	Yes	https://doi.org/10.3389/fmicb.2018.00561
Dr. Sucheta (Contractual)	Probiotics from food and eubiosis in gut: a commensalism	Asian Journal of Dairy and Food research (Print ISSN: 0971-4456)	Jan, 2018	Peer Reviewed	-	http://dx.doi.org/10.18805/ajdfr.DR-1267
Dr. Vandana Sharma and Dr. Sandeep Kaur	Climate Change and Resurgence of Chikungunya in India: A Review	Proceedings of International Conference on Advancements in Science and Technology, ICAST-2017, McGraw Hill Publications, (ISBN (13): 978-93-5260-650-4). 2017; 155-157.	2017	-	-	-

7. Details of Presentations by the Faculty in the session: (Hard Copies of the Certificates to be maintained by the HODs)

Permanent Faculty/ Contractual Faculty	Title of Paper	Title of the Conference/ Seminar	Month/ Year	Sponsoring Agency	National/ International	Award , if any
Dr. Geeta Mehra	Making FSSAI Food Adulterants Detection Guidelines Accessible to Masses: A Case Study on Training Various Strata of Food Vendors and Handlers as an Extension of Responsible Research and Innovation	Advancement in Engineering, Applied Science and Management	May 27, 2018	Indian Council of Social Science Research, North West Regional Centre, Panjab University, Chandigarh	International	None
Dr. Vandana Sharma	Anti-biofilm potential of aqueous extract of Eucalyptus against catheter associated Infections caused by <i>P. aeruginosa</i>	Science and Technology: trends and challenges	April 16-17, 2017	Punjab Academy of sciences and GGN Khalsa College, Ludhiana	International	None
Dr. Vandana Sharma	Global Antibiotic Resistance – responsibility of Society	NSS Camp	31 Sept, 2017	NSS	National	None
Dr. Vandana Sharma	Gut Ecosystem Interactions For A Healthy Mind	“The Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness”	29-30 Jan, 2018	MCM DAV College for Women, Chandigarh	International	None
Dr. Vandana Sharma	Seeking Quality in Higher Education	Indian National Seminar on “Academic and Administrative Audit in Higher Education” Institutions	Jan., 2018	NAAC	National	None
Dr. Sandeep Kaur	Human Gut Microbiome: Key to Mental health and Happiness	“The Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness”	29-30 Jan, 2018	MCM DAV College for Women, Chandigarh	International	None
Dr. Sandeep Kaur	Anti-biofilm potential of aqueous extract of Eucalyptus against catheter associated Infections caused by <i>P. aeruginosa</i>	Science and Technology: trends and challenges	April 16-17, 2018	Punjab Academy of sciences and GGN Khalsa College, Ludhiana	International	None

8. Refresher/Orientation/FDP/Short Term Courses attended by the Faculty:

Name of faculty	Orientation/ Refresher/ FDP	Title of the Programme	Organizing Agency	Duration	From-to
Dr. Geeta Mehra	Trainer Development Programme	Biorisk Management	Department of Biotechnology, Panjab University, Chandigarh in collaboration with Sandia National Laboratories, USA	5 days	June 26 – 30, 2017
Dr. Geeta Mehra	Assessor Training	CII Award for Food Safety	Food and Agriculture Centre of Excellence, Confederation of Indian Industry (CII – FACE), New Delhi	2 days	December 27-28, 2017
Dr. Geeta Mehra	Faculty Development Programme	Calculating API Scores	Internal Quality Assurance Cell, MCM DAV College for Women, Sector 36-A, Chandigarh	1 day	May 28, 2018

9. Faculty as members in Editorial Boards/University Bodies:

- **Dr. Geeta Mehra** appointed as a Member of Board of Studies of Mata Gujri College for Women, Fatehgarh Sahib.
- **Dr. Vandana Sharma** selected as a member of the Undergraduate Board of Studies in Microbiology.
- **Dr. Vandana Sharma** selected as a member of the Board of studies in M.Sc. Environment Science and Solid Waste Management for the session 2017-2018.
- **Dr. Sucheta** - Qualified junior food analyst exam, FSSAI, 2018.

10. Awards/ Recognitions Received by Faculty:

Name and Designation of the Faculty	Name of the Award	Name of the Agency	Month/Year
Dr. Geeta Mehra	Selected and recognition as Convener (from July 2017 to October 2018), Committee of MCM DAV College for Women, Sector 36A, Chandigarh for Swachh Campus Ranking 2018 (Higher Education Institutions), (Category: College (Residential)), Ministry of Human Resources Development, Govt. of India, which oversaw the College winning the first prize in 2018.	Ministry of Human Resources Development, Govt. of India,	July, 2017
Dr. Vandana Sharma	Summer Research Fellowship at IIT Bombay	Indian Institute of Technology Bombay, Main Gate Rd, IIT Area, Powai, Mumbai.	Sept, 2017
Dr. Sandeep Kaur	Research work acknowledged and published in International Journal (Web of Science indexed)	Antimicrobial Agents and Chemotherapy ; doi: 10.1128/AAC.02146-16	Sept, 2017

Dr. Geeta Mehra	Recognition as Organizer for Workshop : Startup/stand up for potential Young Entrepreneurs”	Mehr Chand Mahajan DAV College for Women, Chandigarh in collaboration with Rajiv Gandhi National Institute of Youth Development (RGNIYD), Regional Centre, Chandigarh	10-13 Oct, 2017
Dr. Sandeep Kaur	Recognition as Organizer for Workshop: Startup/stand up for potential Young Entrepreneurs”	Mehr Chand Mahajan DAV College for Women, Chandigarh in collaboration with Rajiv Gandhi National Institute of Youth Development (RGNIYD), Regional Centre, Chandigarh	10-13 Oct, 2017
Dr. Vandana Sharma	Recognition as Organizer Workshop on “Awareness Generation and Food safety”	Mehr Chand Mahajan DAV College for Women, Chandigarh in collaboration with Rastriya Vigyan Evam Prodyogiki Sanchar Parishad, DST, New Delhi , School of Public Health, PGIMER, Chandigarh and Dept. of Food Safety & Standards Chandigarh.	23 Nov, 2017
Dr. Sandeep Kaur	Recognition as Organizer Workshop on “Awareness Generation and Food safety”	Mehr Chand Mahajan DAV College for Women in collaboration with Rastriya Vigyan Evam Prodyogiki Sanchar Parishad, DST, New Delhi , School of Public Health, PGIMER, Chandigarh	23 Nov, 2017
Dr. Vandana Sharma	Recognition as Organizer International conference “Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness”	Mehr Chand Mahajan DAV College for Women, Chandigarh	29-30 Jan, 2018
Dr. Geeta Mehra	Recognition as Organizer - Three day workshop on “Entrepreneurship Programme”	MCM DAV College for Women in collaboration with Regional Centre for Entrepreneurship Development (RCED), Chandigarh	26-28 Mar, 2018
Dr. Sandeep Kaur	Recognition as Organizer - Three day workshop on “Entrepreneurship Programme”	MCM DAV College for Women in collaboration with Regional Centre for Entrepreneurship Development (RCED), Chandigarh	26-28 Mar, 2018
Dr. Sandeep Kaur	Research work acknowledged and published in International Journal (Web of Science indexed)	Frontiers in Microbiology (ISSN, 1664302X; https://doi.org/10.3389/fmicb.2018.00561)	March 2018 issue

11. List of Eminent Academicians and Scientists/ visitors to the Department:

S. No.	Speaker's Name	Title of the lecture	Date
1.	Dr. Amarjeet Singh Professor, Community Medicine, PGIMER, Chandigarh	Special keynote lecture on Food Safety	10-13 Oct 2017
2.	Dr. Bharat University of Legal Studies, Panjab University, Chandigarh	Law & Entrepreneurial Opportunities	10-13 Oct 2017
3.	Mr. Rajneesh Mehra Head-MBA; Gian Jyoti Institute of Management Technology, Mohali	Entrepreneurship Development: Go- to-Market Strategy	10-13 Oct 2017
4.	Dr. Anil Kumar Angrish Assistant Professor, NIPER, Mohali	Project Financing: Agencies and Modalities	10-13 Oct 2017
5.	Mr. Pawan Kamra Managing Director, Nutraceutex, Chandigarh Agritech Pvt. Ltd	SCF Extraction of Bio-Actives	10-13 Oct 2017
6.	Mr. Sukhwinder Singh Designated Officer, Food Safety Cell, UT	Food Fortification & Food Safety Initiatives by Chandigarh Administration	23 Nov 2017
7.	Prof. Sanjay Chhibber Professor, Dept. of Microbiology, Panjab University, Chandigarh	Special lecture on "Food Safety"	23 Nov 2017
8.	Dr. Sukhpal Kaur National Institute of Nursing Education, Chandigarh	Food Safety Definition/Concepts/Problem Statement Types and Gaps	23 Nov 2017
9.	Dr. Jayanti Dutta Roy Deputy Director, Human Resource Development Centre PU, Chandigarh	"Recent Advances; Use of IT in Food Safety; Concept of Traceability; Focus on Safety of GM Food"	23 Nov 2017
10.	Mr. Anish Slath Assistant Professor, University Institute of Hotel & Tourism Management, Panjab University, Chandigarh	HACCP System in Food Safety & Infection Control in Kitchen	23 Nov 2017
15.	Dr. Paramjeet Singh Principal Director, Regional Centre for Entrepreneurship Development (RCED), Chandigarh	"Funding Agencies and their respective schemes esp. with respect to Women Entrepreneurs"	26 Mar 2018
18.	Dr. Anil Angrish, NIPER, Mohali	"INTR Apreneurship"	27 Mar 2018
19.	Mr. Sanjiv Verma Regional Director, Petroleum Conservation Research Association (PCRA)	Panel Discussion on Energy Conservation	28 Mar 2018

STUDENT ENRICHMENT PROGRAMMES ORGANIZED BY THE DEPARTMENT

12. Skill-based Workshops/ Extension Lectures/Panel Discussions organized by the department in the session:

Title of the Workshop/ Extension Lectures/Panel Discussions	Date	Objectives	No. of Students benefited	Name/Designation/Organization of Resource Person/s
<p>Workshop: Startup/stand up for potential young entrepreneurs organized in collaboration with Rajiv Gandhi National Institute of Youth Development (RGNIYD), Regional Centre, Chandigarh</p>	10-13 Oct, 2017	<ul style="list-style-type: none"> ● To equip and empower the participants with enhanced understanding of starting a venture more adequately to meet the needs of the beneficiaries. ● And to build up a clear body of theory, understanding and skills for various aspects of initiating and managing a business, so that by the end of the training the participants will have a clear competence across all stages. 	58	<ul style="list-style-type: none"> ● Prof. Amarjeet Singh, Community Medicine, PGIMER, Chandigarh. ● Dr. Bharat, UILS, Panjab University ● Mr. Rajneesh Mehra, Head – MBA,GJIMT, Mohali ● Dr. Anil Angrish,NIPER, Mohali ● Mr. Pawan Kamra, CEO, Chandigarh Agritech Pvt.Ltd. ● Mr. Ashish, Institute of Hotel Management, Bathinda ● Mr. Sukhvinder, Food Safety Inspector, Chandigarh ● Mr. Chandan Chandana, NIPER, Mohali ●
<p>Workshop on “Awareness Generation & Dissemination of Knowledge & Skills about Recent Advances in Nutrition & Safety” catalyzed and supported by Rashtriya Vigyan Evam Prodyogiki Sanchar Parishad, DST and Star college Scheme, DBT, Ministry of Science and Technology in collaboration with School of Public Health, PGIMER, Chandigarh</p>	23 Nov 2017	<ul style="list-style-type: none"> ● To equip and empower the participants with enhanced understanding of food safety issues and challenges. ● To provide a platform for students to gain clarity about the newer innovations and ideas in the field of food safety through direct interactions with eminent scientists, academicians and industry personnel. 	135	<ul style="list-style-type: none"> ● Prof. Amarjeet Singh, Community Medicine, PGIMER, Chandigarh. ● Prof. Sanjay Chhibber, Professor, Dept. of Microbiology, Panjab University, Chandigarh. ● Mr. Sukhwinder Singh, Designated officer, Food Safety Cell, UT. ● Dr. Sukhpal Kaur, National Institute of Nursing Education, Chandigarh. ● Dr. Jayanti Dutta Roy, Deputy Director, Human Resource Development Centre, PU, Chandigarh. ● Mr. Anish Slath, Assistant Professor, University Institute of Hotel & Tourism Management, Panjab University, Chandigarh.

Workshop on “Hands on Training on Edible Cutlery” by Mr. Shantanu Gupta; Consultant and FSSAI certified Trainer from Green Food Consultant, New Delhi	07 Feb 2018	<ul style="list-style-type: none"> ● To equip students with technical cum practical knowledge (hands on) about the process involved in making edible cutlery. ● To inculcate the concept of using alternative methods to curb the menace of plastic use thus promoting environment friendly options for boosting environmental sustainability 	60	Mr. Shantanu Gupta; Consultant and FSSAI certified Trainer from Green Food Consultant, New Delhi
One day Workshop on “Production of functional Biomolecules from Probiotic bacteria” in collaboration with Dairy Microbiology Department, National Dairy Research Institute (NDRI), Karnal	15 Mar 2018	<ul style="list-style-type: none"> ● To empower the students with practical and theoretical knowledge on probiotics and its functional bio-molecules through interactive session with experts. ● To provide practical based learning to students regarding the importance of relevant techniques and methodology used in dairy microbiology. ● To strengthen and promote research and practical skills among students with a bend towards promoting innovative thinking. 	41	Dr. Sudhir Kumar Tomar, Principal Scientist, Dairy Microbiology Division, NDRI, Karnal.
Three day workshop on “Entrepreneurship Programme” organized in collaboration with Regional Centre for Entrepreneurship Development (RCED), Chandigarh sponsored by Directorate of Industries	26-28, Mar 2018	To promote and inculcate the concept of Entrepreneurship among students and aware them of the different schemes and programmes available for setting up their own start-ups.	69	<ul style="list-style-type: none"> ● Dr. Paramjeet Singh, Principal Director, Regional Centre for Entrepreneurship Development (RCED) ● Mr. Aman Uppal, Head, International Markets, Reliance Technocrats ● Prof. Amarjeet Singh, Community Medicine, PGIMER, Chandigarh ● Mr. Anand P Srivastva (General Manager & Incharge, Northern Region, SIDBI) ● Mr. Sanjiv Verma (Regional Director, PCRA) ● Mr. P N Khanna (Lead District Manager, Punjab National Bank)
Research Based training	02 Sep - 02 Oct 2017	To empower students with hands-on training skill in spawn production, oyster mushroom cultivation from waste and nutritional analysis.	15	Dr. Vandana Sharma and Dr. Sandeep Kaur (Assistant professors, Dept. of Food Science, MCM DAV College for Women, CHD)

13. Industrial/ Field Visits conducted by the Department:

Industry Visited	Date	No. of Students benefitted	Objectives
Visit to Cremica Food Industries Ltd., Ludhiana	14 Nov 2017	B.Sc. MFT III yr. = 66	<ul style="list-style-type: none"> To provide students with real life training and exposure to manufacturing and processing and Quality control section. To sensitize and apprise students of the practical challenges faced, troubleshooting done, regulations and GMP Practices followed, documentation and data recording required in Food Industry. To enable the students to acquire knowledge about the latest and best modern technologies used for processing, packaging and storage.

14. Projects/ Awards/Positions bagged by students:

Name and Roll No. of the Students	Name of the Award/Project/Position	Name of the Agency/University	Month/Year
Gurleen Pannu B. Sc (MFT) II year (Roll No.5066)	First prize in Skit (PU Zonal Youth festival)	Panjab University	24 Sept, 2017
Prabhleen BSc.(MFT) III year Prabhleen of BSc.(MFT) III year [Roll No.-4935]	First prize in Gidda in Youth and Heritage Festival	Panjab University	25 Sept, 2017
Ramandeep Ghumman BSc.(MFT) II year (Roll No.-4952)	Secured second position in Football inter college sports competition	Gursar Sidhar (Ludhiana)	8 -12 Jan, 2017
Ramandeep Ghumman BSc.(MFT) II year (Roll No.-4952)	Third prize in 59th inter-zonal youth and heritage festival 2017-18 held at DAV College Hoshiarpur	Panjab University	28th-31st Oct , 2017
Ramandeep Ghumman BSc.(MFT) II year (Roll No.-4952)	Secured second position in Football inter college sports competition	Gursar Sidhar (Ludhiana)	25 -29 Oct, 2017
Ritika Kadian BSc.(MFT) III year [Roll No.-4918]	Second prize in Luddi in Youth and Heritage Festival.	Panjab University	25 Sept, 2017
Lovepreet Kaur BSc. (MFT) II year (Roll No.-5061)	Gold medal in kho-kho competition held under National Integration Awareness Camp (NIC) of NCC Naval wing at Ropar, Panjab.	National Integration Awareness Camp (NIC) of NCC Naval wing at Ropar	10 -21 Jan, 2018
Gulfashan and Shania Saini, Vanshika Sharma. (5017, 5010, 5011) BSc. (MFT) I year	First prize in Poster presentation competition organized by Dept. of Chemistry, MCM DAV College for Women.	Dept. of Chemistry, MCM DAV College for Women	17 March, 2018

Ujjawal BSc.(MFT-II year; Roll No.-5098)	Awarded Science Academies Summer Research Fellowship Program 2018 organized by and placed under Dr. Jyoti Basu at J.C Bose Institute Calcutta.	Indian Academy of Sciences	June 2017-Aug 2017
Navya Kamboj; 4964 and Sanveer Sandhu; 4907 B.Sc. MFT-III yr.	Second prize in Surakshit Khadya Abhiyan All India Food Safety Quiz (Chandigarh zone including Punjab, Haryana, Rajasthan, Himachal and U.P)	Confederation of Indian Industry (CII)	11 Sept, 2017

15. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, UPSC, CDS, etc.?

Name; Examination Cleared	Year
Mamta Thakur (ICMR-JRF)	June 2017
Chhavi Dawar (CSIR-JRF)	Dec 2017
Ravneet Kaur (UGC NET)	June 2018
Harpreet Kaur (CSIR NET)	June 2018

16. Future Plans:

- To bridge the gap between industry and academia and inculcate industry-oriented skills among students through organizing expert lecture series and industrial visits.
- To initiate the process of setting -up In-House Sewage Treatment Plant (STP) for liquid waste management.
- To organize skill based workshops to empower the students with hands-on experience on nutrition and healthy diet practices.
- Procurement of research grants from DBT, Ministry of Science and Technology.
- To publish student undergraduate research work in journals of high repute.