

**Report
of
Microbial & Food Technology
Department
(2016-17)**



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

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1. **Name of the Department:** Food Science

2. **Year of Establishment:** 2006

3. **Names of Programmes/Courses/ offered (UG, PG, and Ph.D.):**

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	Nil
Assistant Professors	02
Contractual	
Assistant Professors	04

5. **Faculty Profile with Name, Qualification, Designation, Specialization**

S. No	Name	Designation	Qualification	Specialization	Experience
1.	Dr. Geeta Mehra	Assistant Professor	M.Sc., ICAR NET, Ph.D.	Food Technology	12 years (Teaching)
2.	Dr. Vandana Sharma	Assistant Professor	M.Sc. (Hons.), Ph.D.	Microbiology	17 years (Teaching)
3.	Dr. Sandeep Kaur	Assistant Professor	M.Sc. (Hons.), NET, Ph.D.	Microbiology	1 year (Teaching) 5.4 yrs. (Industrial)
4.	Dr. Ruchi Chauhan	Assistant Professor	Ph.D.	Microbiology	1 year
5.	Ms. Sonu	Assistant Professor	M. Sc.	Food Technology	1 year
6.	Dr. Kirti Goel	Assistant Professor	Ph.D.	Food Technology	1 year

6. Number of Faculty with on-going projects:

a. National

- i. National Vector Borne Disease Control programme, UT-Chandigarh funded for conducting a research-based case study titled, “**Microbiological Analysis of Natural Breeding Habitat of N-Choe**” on May, 2017 with a Funding of Rs.34,217/- in the form of chemicals; Concluded.
- ii. “**Detection of Common Food Adulterants**” Department of Community Medicine, Armed Forces Medical College (AFMC), Pune 2016, Grant of INR 30000/- in the form of chemicals; Concluded

7. 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. Sandeep Kaur (Contractual)	<i>In vivo</i> assessment of Phage and Linezolid based implant coatings for treatment of methicillin resistant <i>S. aureus</i> (MRSA) mediated Orthopaedic device related infections.	PLoS ONE; e0157626.	Oct., 2016	Peer Reviewed	Yes	https://doi.org/10.1371/journal.pone.0157626
Dr. Geeta Mehra (Permanent)	Dispose of that disposable cup	The Tribune, Jobs and Careers	Aug., 2016	Refereed	NA	https://www.tribuneindia.com/news/archive/features/dispose-of-that-disposable-cup-285778
Dr. Geeta Mehra (Permanent)	One Course, many options – B.Sc. Microbial and Food Technology	The Tribune, Jobs and Careers	June 29, 2016	Refereed	NA	https://www.tribuneindia.com/news/archive/features/b-sc-microbial-and-food-technology-mft-258222

8. 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 (Permanent)	Comparative Chemical Analysis of Green and Black Tea Brands.	2 nd International Conference on “Harnessing Engineering, Technology & Innovation for Sustainable Growth” (HETIS 2016)	Sept 30 -Oct, 2016	SSBUICET, Panjab University, Chandigarh	International	Best Poster Award
Dr. Geeta Mehra (Permanent)	Harnessing Engineering, Technology & Innovation for Sustainable Growth	2 nd International Conference on “Harnessing Engineering, Technology & Innovation for Sustainable Growth” (HETIS 2016)	Sept 30 -Oct, 2016	SSBUICET, Panjab University, Chandigarh	International	None
Dr. Geeta Mehra (Permanent)	Assessment of Adulteration in Milk and Milk Products.	National Seminar on “Biological Sciences: Prospects & Perspectives” & Science Day Celebrations	Feb 27 – 28, 2017.	Dept. of Bioinformatics and Biotechnology, DAV College, Sector 10, Chandigarh, in association with Punjab State Council for Science & Technology	National	None
Dr. Geeta Mehra (Permanent)	Comparative study for potability assessment of drinking water from different sources in Chandigarh.	National Seminar on “Biological Sciences: Prospects & Perspectives” & Science Day Celebrations	Feb 27 – 28, 2017.	Dept. of Bioinformatics and Biotechnology, DAV College, Sector 10, Chandigarh, in association with Punjab State Council for Science & Technology	National	None

Dr. Geeta Mehra (Permanent)	Packaged Food Labeling: IF FOOD COULD TALK!	National Seminar on “Biological Sciences: Prospects & Perspectives” & Science Day Celebrations	Feb 27 – 28, 2017.	Dept. of Bioinformatics and Biotechnology, DAV College, Sector 10, Chandigarh, in association with Punjab State Council for Science & Technology,	National	None
Dr. Geeta Mehra (Permanent)	Effect of repeated frying on rancidity of oil samples collected from different food vendors of tricity	National Seminar on “Biological Sciences: Prospects & Perspectives” & Science Day Celebrations	Feb 27 – 28, 2017.	Dept. of Bioinformatics and Biotechnology, DAV College, Sector 10, Chandigarh, in association with Punjab State Council for Science & Technology,	National	None
Dr. Geeta Mehra (Permanent)	Comparative Physico-chemical and Microbial Analysis of Different Brands of Honey.	National Seminar on “Biological Sciences: Prospects & Perspectives” & Science Day Celebrations	Feb 27 – 28, 2017.	Dept. of Bioinformatics and Biotechnology, DAV College, Sector 10, Chandigarh, in association with Punjab State Council for Science & Technology	National	None
Dr. Vandana Sharma (Permanent)	Genetically modified probiotic bacteria- boon or bane	Nanobiotechnology And Microbial Technology For Advancements In Industry And Medicine	Aug., 2016	Association of Microbiologists of India (AMI), Chd Unit	National	None
Dr. Vandana Sharma (Permanent)	Bio prospecting Potential for development of novel antimicrobial drugs (Poster)	Microbial Resource Centers and Conservation of Microbial Diversity	Nov., 2016	IMTECH	International	None
Dr. Sandeep Kaur (Contractual)	Evaluation of antibacterial efficacy of human breast milk	National seminar and science day celebrations	28 Feb., 2017	DAV College, Sec 10, Chandigarh.	National	None

Dr. Ruchi (Contractual)	A study on the type and morphology of microbes responsible for spoilage in different types of foods	National seminar and science day celebrations	28 Feb., 2017	DAV College, Sec 10, Chandigarh.	National	None
Ms. Sonu (Contractual)	Analysis of Vitamin C Content and its Degradation during Storage in Amla and Amla Products'	2nd International Conference, Harnessing Engineering, Technology and Innovation for Sustainable Development for Sustainable Development	2016	HETIS	International	Best poster
Dr. Sandeep Kaur (Contractual)	Climate change and resurgence of Chickengunya in India	International conference on advancement in science and technology.	20-21 April, 2017	Rayat Bahara university, mohali	International	None

9. Details of Orientation Programmes/Refresher Courses/FDPs (Not less than 7 days at a stretch) etc. attended by the Faculty in the session: (Hard Copies of the Certificates to be maintained by the HODs)

Name of faculty	Orientation/ Refresher/ FDP	Title of the Programme	Organizing Agency	Duration	Date
Dr. Vandana Sharma	FDP (7 days)	ICT- New dimensions in research and higher education	MCM DAV College for Women, Chandigarh	07 Days	26 th Nov. to 2 nd Dec., 2016.
Dr. Kirti Goel	FDP (7 days)	Expanding Paradigms of Pedagogy	MCM DAV College for Women, Chandigarh	07 Days	13th-19 th , April, 2017
Dr. Vandana Sharma	FDP (7 days)	Expanding Paradigms of Pedagogy	MCM DAV College for Women, Chandigarh	07 Days	13th-19th April, 2017
Dr. Ruchi Chauhan	FDP (7 days)	Expanding Paradigms of Pedagogy	MCM DAV College for Women, Chandigarh	07 Days	13 th -19 th , April, 2017
Dr. Sandeep Kaur	FDP (7 days)	Expanding Paradigms of Pedagogy	MCM DAV College for Women, Chandigarh	07 Days	13th-19 th April, 2017

Dr. Vandana Sharma	Refresher course	in Basic and Applied Science	UGC-Human Resource Development Centre, PU Chandigarh.	21 days	11 th May to 15 th June, 2016
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10. Faculty as members in Editorial Boards/University Bodies:

- **Dr. Geeta Mehra** selected as Member of Board of Studies of M.Sc. Food Technology, B.Voc. Food Processing, Certificate course in Bakery Technology, Mata Gujari College Fatehgarh Sahib, since 2015.
- **Dr. Vandana Sharma** selected as a member of the Undergraduate Board of Studies in Microbiology, since 2017.

11. Awards/ Recognitions Received by Faculty:

Name and Designation of the Faculty	Name of the Award	Name of the Agency	Month/Year
Dr. Geeta Mehra	Coordinator, Star College Scheme of Department of Biotechnology, Government of India, for MCM DAV College for Women, Sector 36A, Chandigarh	Dept. of Biotechnology, Government of India	2013 to 2018
Dr. Geeta Mehra	Recognition as Organizer in the Workshop on “Novel Food Product Development – way forward to Skill India, held at Rajiv Gandhi National Institute of Youth Development, Chandigarh from 13th - 17th October, 2016	Mehr Chand Mahajan DAV College for Women, Chandigarh	13th - 17th October, 2016
Dr. Geeta Mehra	Awarded with funding from Department of Community Medicine, Armed Forces Medical College (AFMC), Pune, Detection of Common Food Adulterants with a grant of Rs 30,000 (in form of chemicals) - duration (12 months)	AFMC, Pune	April 2017
Dr. Vandana Sharma	Recognition as Organizer- National Seminar on “Animal Diseases: Impact on Human Health and Control Issues” on 30 th and 31 st August, 2016.	Mehr Chand Mahajan DAV College for Women, Chandigarh	30 th and 31 st August, 2016
Dr. Vandana Sharma	Recognition as Organizer - New Horizons in Biological Science, Outreach program under aegis of AMI, Chandigarh Unit.	Mehr Chand Mahajan DAV College for Women, Chandigarh	03 Sep 2016
Dr. Vandana Sharma	Selected as Staff member for work with Chandigarh Administration Health Department under The National Vector Borne Disease Control Programme (NVBDCP), Gov. of India	Chandigarh Administration Health Department under The National Vector Borne Disease Control Programme (NVBDCP), GOI	04.Jan 2017

Dr. Vandana Sharma	Awarded with Research Funding of Rs 34,217/- under National Vector Borne Disease Control programme, UT-Chandigarh for conducting a research based case study titled “Microbiological Analysis of Natural Breeding Habitat of N-Choe”	National Vector Borne Disease Control programme, UT-Chandigarh	May, 2017
Dr. Vandana Sharma	Selected as member of the Undergraduate Board of Studies in Microbiology	Panjab University, CHD	1/4/2017-31/3/19
Dr. Sandeep Kaur	Recognition as Organizer in the Workshop on “Novel Food Product Development – way forward to Skill India, held at Rajiv Gandhi National Institute of Youth Development, Chandigarh from 13th - 17th October, 2016	Mehr Chand Mahajan DAV College for Women, Chandigarh	13th - 17th October, 2016
Dr. Kirti Goel	Recognition as Organizer- National Seminar on “Animal Diseases: Impact on Human Health and Control Issues” on 30 th and 31 st August, 2016.	Mehr Chand Mahajan DAV College for Women, Chandigarh	30 th and 31 st August, 2016
Dr. Sandeep Kaur	Recognition as Organizer- National Seminar on “Animal Diseases: Impact on Human Health and Control Issues” on 30 th and 31 st August, 2016.	Mehr Chand Mahajan DAV College for Women, Chandigarh	30 th and 31 st August, 2016
Dr. Sandeep Kaur	Recognition as Organizer - Seven days National Faculty Development Program on “Expanding Paradigms of Pedagogy”.	Mehr Chand Mahajan DAV College for Women, Chandigarh	13-19, April 2017
Dr. Kirti Goel	Recognition as Organizer - Seven days National Faculty Development Program on “Expanding Paradigms of Pedagogy”.	Mehr Chand Mahajan DAV College for Women, Chandigarh	13-19, April 2017

12. List of eminent Academicians and Scientists/ visitors to the Department:

S. No.	Speaker's Name	Title of the lecture	No. of Students	Date
1.	Prof. Sanjay Chhibber Professor, Dept. of Microbiology, Panjab University, Chandigarh	Microbes in action	63	31 Aug 2016
2.	Dr. Amarjeet Singh Professor, Community Medicine, PGIMER, Chandigarh	Special keynote lecture on Food Safety	63	13 Oct 2016
3.	Prof. U. S. Shivhare Chairperson, Dr. S.S. Bhatnagar, UICET, P.U., Chd.	Processing of Guar Seed for Production of Guar Gum	63	13 Oct 2016
4.	Mr. Gurharminder Singh Senior Scientific Officer Punjab State Council for Science and Technology	Intellectual Property Rights: Introduction and Significance	63	13 Oct 2016

5.	Dr. Shet Masih Director, Molecular Diagnostics & Research Laboratories (MDRL)	Pathogens Detection using Advanced Molecular Techniques for Food Safety	63	14 Oct 2016
6.	Dr. Geeta Mehra Head, Dept. of Food Science, MCM DAV College for Women, Chandigarh	Agri-Food Business: Opportunities Galore	63	14 Oct 2016
7.	Mr. Pawan Kamra Managing Director, Nutraceutex, Chandigarh Pvt. Ltd	SCF Extraction of Bioactives	63	15 Oct 2016
8.	Sh. Paramjeet Singh Principal Director at Regional Centre for Entrepreneurship Development (RCED)	Motivational Lecture on Entrepreneurship	63	17 Oct 2016
9.	Dr. Sunita Shailajan Star Status Co-ordinator; Ramnarain Ruia College, Mumbai	Star status and Star College Programme : an Insight	60	Feb, 2017
10.	Dr. S.S Marwaha Former CEO, Punjab Biotechnology Incubator	Career Orientation : Future growth in Science	63	March, 2017

STUDENT ENRICHMENT PROGRAMMES ORGANIZED BY THE DEPARTMENT

13. Seminars/Conferences organized by the department in the session: Kindly include the sponsoring/funding agency:

Event: Seminar/ Conferences (National/International)	Date	Title of the Event	Name of the Funding Agency	Funds Received	No. of Students benefited
National Seminar	30 th -31 st Aug, 2016.	Animal Diseases: Impact on Human Health and Control Issues	UGC and INSA	2 lakh	250

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

Title	Duration	Students	Teachers
Rajiv Gandhi national Institute of Youth Development, Regional Center, Chandigarh in Collaboration with Department of Food Science, MCM DAV College for Women organized a “ Workshop on Novel Food Product Development- Way Forward to Skill India ”	13-17 Oct, 2016	B.Sc. MFT II [66] B.Sc. MFT III [30]	6
Workshop on “ Awareness generation and dissemination of knowledge and skills about recent advances in nutrition and food safety ” catalyzed and supported by Rastriya Vigyan Evam Prodyogiki Sanchar Parishad, DST, and New Delhi and organized by School of Public Health, PGIMER, and Chandigarh in collaboration with Dept. of Food Safety & Standards Chandigarh.	22-26 Nov, 2016	BSc. MFT III [35]	3

15. Industrial/ Field Visits conducted by the Department:

Industry Visited	Date	No. of Students benefited
A study tour to Pushpa Gujral Science City, Kapurthala Road, Jalandhar was organized for students of B.Sc. MFT 1st and 3rd year	12th Nov, 2016	B.Sc. MFT III yr. = 20
Visit to Lotus Ice Cream Factory, Industrial area , Chandigarh	25 th -26 th Nov, 2016	MFT II yr.-66

16. Projects/ Awards/Positions bagged by students: Students' Achievements

- Students actively participated in **Poster and Oral Presentations** at UGC and INSA Sponsored 2 days National Level Seminar on “Animal Diseases: Impact on Human Health and Control Issues” on 30th and 31st August, 2016; organized by Department of Zoology & Department of Food Science.
- **Kajal Karn** and **Ishita Sharma** of MFT III year got 1st prize in Poster competition at National Level Seminar on “Animal Diseases: Impact on Human Health and Control Issues” on 30th and 31st August, 2016.
- **Tamanna Awasthi** of MFT III year got the Best Poster Presentation titled ‘Comparative Chemical Analysis of Green and Black Tea Brands’ at HETIS, 2016.
- Students actively participated in dissemination of knowledge about food safety to local street vendors during a workshop on “Awareness generation and dissemination of knowledge and skills about recent advances in nutrition and food safety” from 22-26 November, 2016 organized in collaboration with PGIMER. Students of MFT(III) year displayed various food and water adulteration kits and performed adulteration tests
- Secured second position in Football inter college sports competition held on 8-12 Jan, 2017 at Gursar Sidhar (Ludhiana)- **Ramandeep Ghumman** of BSc.(MFT) II year.

- 25 students actively participated in National Seminar and Science Day celebrations held at DAV College, Sector 10, Chandigarh on 27-28th Feb, 2017 and **Jayati Sharma** of BSc. (MFT) III bagged second prize in Poster making competition in the Research category.
- 14 students of B.Sc.(MFT) participated in Science fest on 25 March, 2017 and **Nikita, Prabhleen and Jaspreet Kaur** of BSc.(MFT) II year got first prize in poster making competition on the topic: ‘Hygienity of Swimming Pools’ in Science fest on 25 March, 2017 organized by MCM DAV College for Women, Chandigarh.
- **Abhiruchi** of BSc. MFT-II year got first prize in the Science Cosplay contest held during Science Fest at MCM DAV College in Science fest on 25 March, 2017.

17. Future plans:

- To organize National/International Seminar and experts talks to boost Entrepreneurship and Innovation Skills among students.
- To frame research based strategies towards Malaria elimination under National Vector Borne Disease Control programme, UT-Chandigarh.
- Construction of Biogas Plant and Composting Units for mitigation of Hostel Food waste and Green waste.
- To equip and empower the students with enhanced understanding of Food Safety: challenges and new development through organizing hands on workshops
- To empower students with hands-on training skills for Mushroom Production.