

**Report of  
Department of Food Science  
(2017-18)**



**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: 2017-18

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

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

**Faculty Publications /Awards/Achievements/Activities:****Dr. Geeta Mehra**

- ❖ Evaluator and Examiner for dissertations of Master of Science in Dietetics and Food Service Management [M.Sc. (DFSM)] of IGNOU, Regional Centre, Chandigarh. 16 dissertations evaluated in 2017.
- ❖ Participated in Workshop on Operations and Standard Operating Procedures in Biorisk Management organised by Department of Biotechnology, Panjab University, Chandigarh in collaboration with Sandia National Laboratories, USA, January 15 – 18, 2018.
- ❖ Attended Assessor Training on CII Award for Food Safety organised by Food and Agriculture Centre of Excellence, Confederation of Indian Industry (CII – FACE), New Delhi, December 27 – 28, 2017.
- ❖ Participated in Biorisk Management: Trainer Development Programme (BRM – TDP) organised by Department of Biotechnology, Panjab University, Chandigarh in collaboration with Sandia National Laboratories, USA, June 26 – 30, 2017.
- ❖ Mehra, G., 2018. Faculty Development Programme on Entrepreneurial Opportunities in Food Processing at Khalsa College of Engineering & Technology, Amritsar, conducted by Regional Centre for Entrepreneurship Development, Chandigarh, on March 22.
- ❖ Mehra, G., 2018. Entrepreneurship Development Programme at Post Graduate Government College, Sector 11, Chandigarh, conducted by Regional Centre for Entrepreneurship Development, Chandigarh, on March 21.
- ❖ Mehra, G., 2018. Invited talk at International Seminar on Biosafety: Risks and Management at the Department of Biochemistry, Panjab University, Chandigarh, on March 19.
- ❖ Mehra, G., 2018. Entrepreneurship Development Programme at Post Graduate Government College, Sector 46, Chandigarh, conducted by Regional Centre for Entrepreneurship Development, Chandigarh, on February 27.

- ❖ Mehra, G., 2018. Entrepreneurship Development Programme at Lovely Professional University, Jalandhar, conducted by Regional Centre for Entrepreneurship Development, Chandigarh, on February 25.
- ❖ Mehra, G., 2018. Opportunity Guidance in Food Processing in Skill Training Programme in Retail for JCOs/OR from Army/Navy/Air Force, on behalf of Directorate General Resettlement (DGR), Ministry of Defence conducted by and at Regional Centre for Entrepreneurship Development, Chandigarh, on February 21.
- ❖ Mehra, G., 2018. Opportunity Guidance in Food Processing in Skill Training Programme in Retail for JCOs/OR from Army/Navy/Air Force, on behalf of Directorate General Resettlement (DGR), Ministry of Defence conducted by and at Regional Centre for Entrepreneurship Development, Chandigarh, on February 15.
- ❖ Mehra, G., 2018. Chairperson for a session at Two Day International Conference on Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness organised by MCM DAV College for Women, Chandigarh, January 29 – 30. (10) Int.
- ❖ Mehra, G., 2018. Instructor at Cooperative Biological Engagement Programme (CBEP) Foundation/Laboratory – Level Biorisk Management Workshop at J. W. Marriot, New Delhi, by Global Biorisk Management Curriculum, Sandia National Laboratories, USA, January 22 – 25, 2018.
- ❖ Mehra, G., 2017. Session on Whet your appetite, feed the world: Recipe for an agro-food entrepreneur! during Workshop on Novel Food Products Development – way forward for Skill India, held at Rajiv Gandhi National Institute of Youth Development, Regional Centre, Chandigarh, October 13, 2017.
- ❖ Mehra, G., 2017. Observer at STEM Teacher Training Workshop on Research Based Pedagogical Tools at Pt. Ravishankar Shukla, Raipur; sponsored by DBT, Newton Bhabha Fund of the British Council and Centre of Excellence in Science and Mathematics, IISER Pune; conducted by Sheffield Hallam University, United Kingdom, October 6 – 9.
- ❖ Mehra, G., 2017. Entrepreneurship Awareness Programme at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, conducted by Regional Centre for Entrepreneurship Development, Chandigarh, on September 28.
- ❖ Mehra, G., 2017. “Recipe for an Agro-Food Entrepreneur” during Entrepreneurship Coach Programme at Lovely Professional University, Jalandhar, conducted by Regional Centre for Entrepreneurship Development, Chandigarh, on July 21.

- ❖ Mehra, G., 2017. Trainer at STEM Teacher Training Workshop on Research Based Pedagogical Tools at Global Group of Institutions, Ropar; sponsored by DBT, Newton Bhabha Fund of the British Council and Centre of Excellence in Science and Mathematics, IISER Pune; conducted by Sheffield Hallam University, United Kingdom, June 1 – 3.

### **Events organized**

- ❖ Coordinator, Entrepreneurship Development Programme, conducted by Regional Centre for Entrepreneurship Development (RCED), Chandigarh at MCM DAV College for Women, Chandigarh, March 26 – 28, 2018.
- ❖ Coordinator, Workshop on “Awareness Generation and Dissemination of Knowledge and Skills about Recent Advances in Nutrition and Food Safety”, supported by DST, New Delhi, and DBT, New Delhi, organised by School of Public Health, PGIMER, Chandigarh, at MCM DAV College for Women, Sector 36-A, Chandigarh, November 23, 2017.
- ❖ Coordinator, Workshop on Start-up Stand-up for Potential Young Entrepreneurs, held at Rajiv Gandhi National Institute of Youth Development, Regional Centre, Chandigarh, October 10 – 13, 2017.

### **Dr. Vandana Sharma**

- ❖ Selected as a member of the Undergraduate Board of Studies in Microbiology.
- ❖ Participated in the “STEM Teacher Training Workshop on Research Based Pedagogical Tools” workshop held from 23-25 Jan. 2017 at the Indian Institute of Science Education and Research, Mohali, jointly sponsored by DBT, Govt. of India, Newton Bhabha Fund of the British Council and IISER Pune.
- ❖ Attended 7 day FDP on “Expanding Paradigms of Pedagogy” from 13-19 April, 2017.
- ❖ Published a paper titled, ‘Climate Change and Resurgence of Chickungunya in India: A Review’, in 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.
- ❖ Awarded Summer Research Fellowship certificate in September 2017 by Indian Academy of Sciences and Indian National Science Academy., and AMI, Chandigarh in September 2017

- ❖ MFT 3<sup>rd</sup> yr. students (12) mentored for poster presentation in National Conference on “Biotechnology Academic Industrial Interface” organized by Department of Biotechnology, CGC Landran and AMI, Chandigarh in September 2017.
- ❖ Invited as Resource Person at 7 days NSS camp from 29 Sept. to 5 Oct. 2017.
- ❖ Attended a workshop on “Awareness Generation and Dissemination of Knowledge and Skills about Recent Advances in Nutrition and Food Safety” organized by PGI and MCM College in November 2017.
- ❖ Organized industrial visit to Mrs Bector’s Cremica Food Specialties Limited in November 2017.
- ❖ Conducted practical examination of B.Sc. Biotechnology in Chandigarh College of Technology, Mohali in December 2017.
- ❖ Paper presented in National Seminar on “Academic and Administrative Audit in Higher Education” Institutions organized by DAV College Jalandhar in January 2018.
- ❖ Paper presented at International Conference on “Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness” in January 2018.
- ❖ Awarded certificate of appreciation in acknowledgment of chairing a session in International conference “ Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness” organized by MCMDAV College for Women, Chandigarh in January 2018.

### **Dr. Sandeep Kaur**

- ❖ **One International Publication** : Chhibber S, Shukla A, Kaur S (2017). "Transfersomal phage cocktail : an effective treatment against methicillin resistant *S. aureus* (MRSA) mediated Skin and Soft tissue infections (SSTIs)".Antimicrobial Agents and Chemotherapy. Accepted (Printing in process; AAC02146; doi:10.1128/AAC.02146-16).
- ❖ Member of the organizing team in the Workshop on Start Up Stand Up for Potential Young Entrepreneurs held at Rajiv Gandhi National Institute of Youth Development, Chandigarh from Oct 10th, 2017 to Oct 13th, 2017.
- ❖ Presented oral presentation on “ Climate Change and Resurgence of Chickungunya in India” at International Conference on Advancements in Science and Technology (ICAST) held on April20-21,2017 at Rayat Bahra University, Mohali, Panjab in association with DRDO, New Delhi.
- ❖ Published a paper titled, ‘Climate Change and Resurgence of Chickungunya in India: A Review’, in 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.

- ❖ Organizing committee member for the event : Seven day National Faculty Development Program on “Expanding Paradigms of Pedagogy” held at MCMDAV college for Women, Chandigarh from 13 Apr-19 Apr,2017.
- ❖ Presented poster entitled “Evaluation of anti-bacterial activity of human breast milk” at National Seminar and Science day held at DAV College, Chandigarh on 27-28 Feb, 2017.
- ❖ Presented paper on “Human Gut Microbiome: Key to Mental health and Happiness” at International Conference on “*The Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness*” on 29-30 January 2018.
- ❖ **Paper accepted for publication (In press)** : Liposome Entrapment of Bacteriophages Improves Wound Healing in a Diabetic Mouse MRSA Infection has been approved for production and accepted for publication in *Frontiers in Microbiology*, section Antimicrobials, Resistance and Chemotherapy.

#### **Dr.Ruchi**

- ❖ Member of the organizing team in the Workshop on Start Up Stand Up for Potential Young Entrepreneurs held at Rajiv Gandhi National Institute of Youth Development, Chandigarh from Oct 10th, 2017 to Oct 13th, 2017.

#### **Dr.Sucheta**

- ❖ Became reviewer for Journal of Food Science and Technology
- ❖ Shortlisted in top 9 for academic associate at IIM, Ahmedabad for Food and Agribusiness Management.
- ❖ Published review article entitled “Probiotics from food and eubiosis in gut: a commensalism” in *Asian Journal of Dairy and Food research*, 2017
- ❖ Qualified junior food analyst exam, FSSAI, 2018.

#### **Dr. Bindu Tathata**

- ❖ Organizing member in
  - i) Food safety workshop (National) held on 23 November 2017
  - ii) Workshop on Startup Stand up for Potential Young Entrepreneurs by Rajiv Gandhi National Institute of Youth Development (RGNIYD) regional center, Chandigarh held from 10/10/2017-13/10/2017
- ❖ Supervised the designing of the following instruments:

- i) To calculate the coefficient of friction of grains (Food Engineering)
- ii) To calculate the Relative humidity of Intermediate Moisture Food (IMF) (Food Engineering)
- ❖ Completed Ph.D in Food Engineering & Technology under the guidance of Prof. Pradyuman Kumar on the research topic “Process technology for the preparation of shelf-stable beetroot juice powder”.

**Students Publications /Awards/Achievements/Activities:**

- First prize in Skit (PU Zonal Youth festival) held on 24 Sept, 2017 – Gurleen Pannu of B.Sc (MFT) II year.
- First prize in Clean Mess Day Slogan Writing competition under Swachhta Abhiyaan Programme held at MCM DAV College for Women. The Topic For Slogan Writing was Health and hygiene – Dibjot Kaur of BSc.(MFT) III year.
- First prize in Gidda in Youth and Heritage Festival held on 25 Sept, 2017 – Prabhleen of BSc.(MFT) III year.
- Third prize in 59th Panjab University inter-zonal youth and heritage festival 2017-18 (28th-31st Oct ) held at Dav College Hoshiarpur- Prabhleen of BSc.(MFT) III year.
- Second prize in Luddi in Youth and Heritage Festival held on 25 Sept, 2017 – Ritika Kadian of BSc.(MFT) III year.
- Secured second position in Football inter college sports competition held on 8 January-12 January 2017 at Gursar Sidhar( Ludhiana)- Ramandeep Ghumman of BSc.(MFT) II year
- Secured second position in Football inter college sports competition held on 25 October 2017-29 October 2017 at Gursar Sidhar (Ludhiana) - Ramandeep Ghumman of BSc.(MFT) II year.
- Gold medal in kho-kho competeition held under National Integrtion Awareness Camp (NIC) of NCC Naval wing at Ropar, Panjab from 10 Jan-21 Jan 2018 – Lovepreet Kaur of BSc. (MFT) II year.
- Secured third position in Sepak Takraw inter college sports competition held on 23 January 2018-24 January 2018 at Panjab University-Ramandeep Ghumman of BSc.(MFT) II year.
- Second prize in Surakshit Khadya Abhiyan All India Food Safety Quiz (Chandigarh zone including Punjab, Haryana, Rajasthan, Himachal and U.P) organized by

Confederation of Indian Industry. The quiz was held at CII office, Chandigarh on 11th September, 2017- B.Sc. MFT-III yr (Navya Kamboj and Sanveer Sandhu).

- Ujjawal- Student of BSc.(MFT-II year) got selected in Science Academies Summer Research Fellowship Program 2018 organised by Indian Academy of Sciences and placed under Dr. Jyoti Basu at J.C Bose Institute Calcutta.
- Seven students of BSc. (MFT)III year presented posters at National Conference on Emerging sustainable technologies in Food Processing (ESTFP 2018) organized by Department of Food Engineering and Technology, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab on 15-16 March 2018.
- Three students of BSc.(MFT) I year won first prize I Poster presentation competition organized by Dept. of Chemistry on 17 March 2018 – Gulfashan and Shania Saini, Vanshika Sharma.
- Twelve students of BSc.MFT-III year shall be presenting their research work as posters at the ‘Third National Conference on Contemporary Food Processing and Preservation Technologies’ organized by School of Bioengineering and Food Technology, Faculty of Applied Sciences and Biotechnology, Shoolini University, Solan (HP) on 12 April 2018.