

2.3

Student Hunger

2.3.1 Student Food Insecurity and Hunger

MRIIRS Weblink to SDG 2:

<https://mriirs.edu.in/sdg02-zero-hunger/>

Student Food Insecurity and Hunger

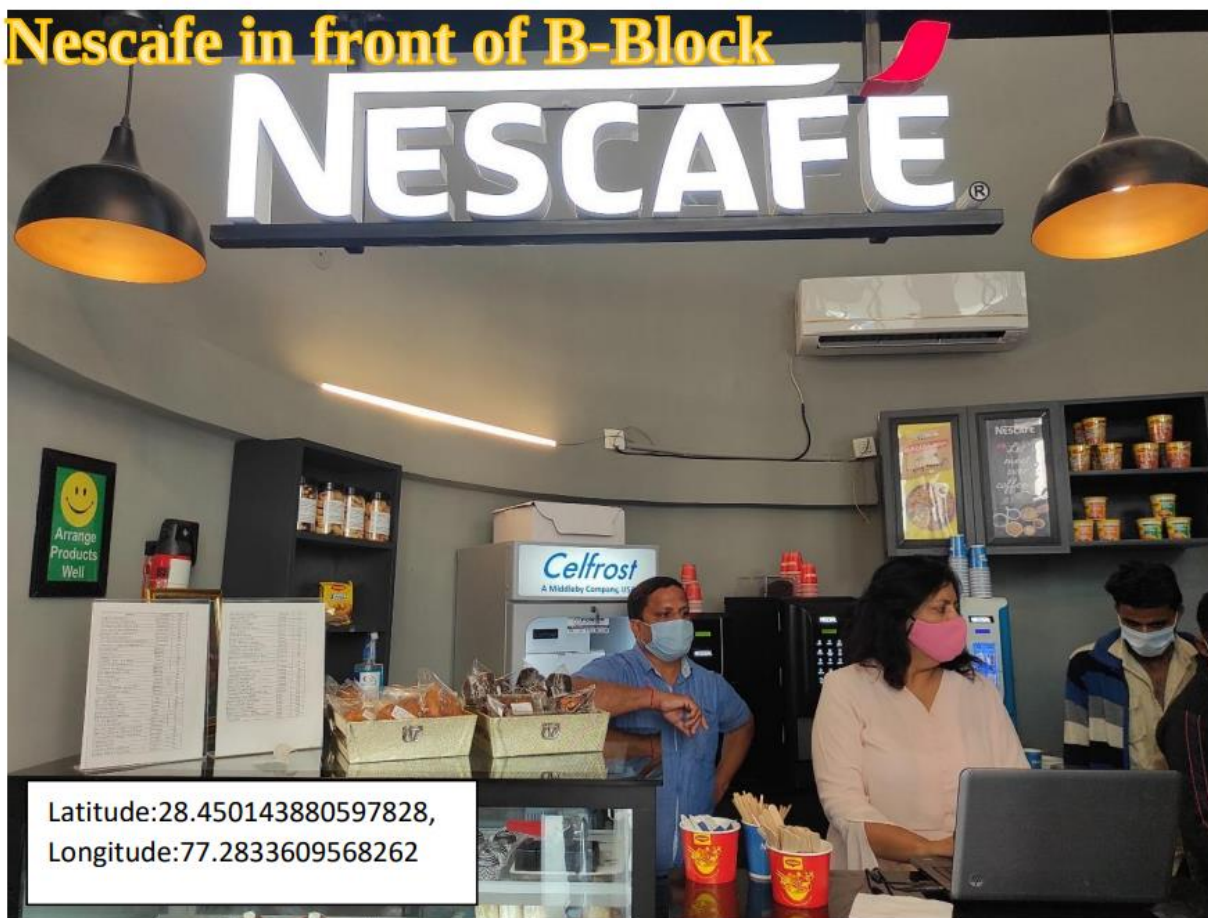
A. MRIIRS population has access to the following outlets for multiple Food Choices:

- a. Hostel Mess (Boys and Girls)
- b. Food Outlets at MRIIRS which includes
 - ✓ SUBWAY
 - ✓ HUSH Food Court
 - ✓ Chai Garam
 - ✓ Nescafe
 - ✓ Red Brick Bistro
 - ✓ Hotel Management Café etc.

Subway in front of B-Block



Nescafe in front of B-Block



Latitude: 28.450143880597828,
Longitude: 77.2833609568262

Hotel Management run Café in front of T-Block



Latitude: 28.450157331392216,
Longitude: 77.28636473264663

Student Run Café Near E,F Blocks



Latitude:, 28.451170209359457

Longitude: 77.28442214277715

Hush Food Court Near F-Blocks



Latitude:, 28.45117636648535

Longitude: 77.28493395098897

HOSTEL KITCHEN AND HYGIENE Food Service



The sample Lease Agreements for the food outlets and Hostel Mess caterer- Caterman are also provided:

1. Hush Lease Agreement
2. Subway Lease Agreement
3. Caterman Lease Agreement

B. Awareness Programmes/ Nutrition Health Camps/ Courses on Food & Nutrition / Start-ups incubated:

Manav Rachna International Institute of Research and Studies further always help the community in achieving the good health through **Nutrition health camps** at different -different area of Faridabad and its outskirts. Institute runs **many courses in field of nutrition and health** such as Fundamental of food and nutrition, Family meal management, Institutional Service management, Community Nutrition, Food science and technology, Food hygiene and sanitation to encourage the students to

take a step forward and work towards this novel work to save the planet. These courses run with following Objectives:

- ✓ To create students who are having the knowledge of nutrition and will be able to create the diets according to person's need.
- ✓ To create awareness related to balance diet and its importance by using ICT tools.
- ✓ To be able to calculate the nutritive value of any food and will be able to prepare nutritious dishes.
- ✓ New innovative product can also be developed to overcome the malnutrition of the community

Apart from this **many start-ups** are also been launched like 1) **Helestein Food Lab:** non-preservative beverages and food items, use waste like cocum rind, Mango peel, to develop various nutritious food products. 2) **Naturoplast:** Biodegradable packaging film using banana peel as a replacement of plastic 3) **Nutrifresh:** mouth freshener developed by basil seeds. Recent Start-ups are 1) **Eat Me:** focussed on waste management of water melon rind in to edible cutlery. 2) **Poshan twigs:** Nutritious solution of the breakfast using millets (underutilized crop)



Helestein Food Lab presenting Cocum drink produce from waste

- ✓ As evidence document in support to 2.3.1 detailed report for all the programmes along with photographs.

B.1 Initiatives to create Awareness:

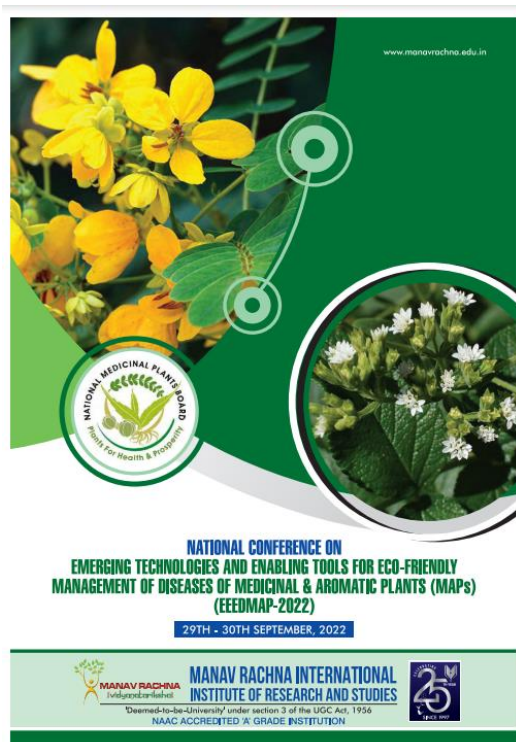
Many programmes have been launched to spread nutrition information throughout the campus community and eventually, globally. **Faculty members and students are also equipped through trainings to address the Student Food Intervention and Hunger.**

- **NATIONAL PROGRAMME CONDUCTED ON HUNGER:
National Conference On “Emerging Technologies and Enabling Tools For Eco-Friendly Management Of Diseases In Medicinal & Aromatic Plants” (EEEDMAP 2022)**

Department of Biotechnology and MR Centre For Medicinal Plant Pathology (MR-CMPP) FET, Manav Rachna International Institute of Research and Studies organized a two-day National Conference on “Emerging Technologies and Enabling Tools for Eco-Friendly Management of Diseases in Medicinal & Aromatic Plants” (EEEDMAP 2022) which was supported by the National Medicinal Plants Board (NMPB), Ministry of AYUSH, Government of India (GOI). The conference was attended by students, faculty members, local farmers and participants from all over India, viz CSIR-NIScPR, Pusa, University of Patanjali, Haridwar, University of Delhi, Delhi, Banasthali Vidhyapeeth, Madurai Kamraj University, Tamil Nadu, JNV University, Jodhpur, UPES, Dehradun, MIT, Pune, JP Institute of Technology, Noida, JECRC University, Jaipur, Shoolini University, Solan, HP, Banaras Hindu University, Banaras, GGSIP University, Delhi, and MDU, Rohtak.

The inaugural session was graced by the Chief Guest Dr. Chandrashekhar Sanwal, Deputy CEO, IFS, NMPB, Ministry of AYUSH, GOI. The ceremony also witnessed the presence of Hon’ble Keynote Speaker, Prof. P.C. Trivedi, Former Vice Chancellor- 5 Universities; Dr Sanjay Srivastava, Vice Chancellor, MRIIRS; Dr. Pradeep Kumar, Pro-Vice Chancellor and Dean, Faculty of Engineering and Technology; Mr. R. K Arora,

Registrar MRIIRS. Prof. (Dr.) Nidhi Didwania , Convener, highlighted the objective of the conference “Health of Healthy Plants”.



SCOPE OF THE CONFERENCE

According to the Botanical Survey of India, India is home to more than 8,000 species of medicinal plants. The country has a rich history of traditional healing systems, many of which list the use of these plants. According to the WHO, at least 25% of all modern medicines are derived, either directly or indirectly, from medicinal plants. The Indian forests are the principal repositories of large number of medicinal and aromatic plants, from where the raw materials are collected predominantly for manufacture of drugs and perfumery products.

As one of the measures to conserve the precious species, commercial cultivation began which inadvertently brought the problem of pests and diseases leading to crop loss of various magnitudes. Also, too much emphasis has been put on the potential for discovering new wonder drugs, and ignore on the innumerable problems associated with the already known and cultivated MAPs. Medicinal plants are vulnerable to be attacked by several pathogens resulting crop loss in terms of both quantity as well as quality. Post-harvest loss is also a great problem of medicinal plants where toxins are produced by the pathogens. Thus, plant diseases create challenging problems in commercial agriculture and pose real economic threats. Therefore, the “health of these healthy plants” should be concerned. Medicinal plants being used in health-care system and chemical methods of management of pests and diseases are becoming obsolete. It is a must that non-chemical, eco-friendly safer methods of management are evolved. Preparedness for combating against the biotic stresses of medicinal plants is prerequisite for horizontal

expansion of medicinal plants acreage in future. The medicinal plants need to be conserved effectively for the future and the time is right to utilize the global demand for Indian Medicinal plants and their bioactive metabolites by sustainable production of healthy and disease free quality plant material through emerging technologies, biopesticides & biotechnological tools. The proposed conference will provide a platform to discuss and provide a framework for the conservation and sustainable use of plants in medicine.

The conference aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on different aspects of Medicinal and Aromatic Plants. This will not only enlightens the young scientist, faculty, students, researchers, conservationists, academicians from different disciplines viz. Biological Sciences, Biotechnology, Ayurveda, Pharma & Medicine, Alternative medicine etc. about the supreme importance of Medicinal & Aromatic Plants but also will open their mind for the research work to be carried out in this highly potential field. It also provides a

premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields against major pathogens of Medicinal and Aromatic Plants. We hope to make this national gathering on medicinal and aromatic plants particularly educational and inspiring for young scientists who will get an opportunity to interact with leading experts.



Prof. P.C. Trivedi gave an insight about the phytodiversity and talked about the Eco-Friendly Management of Diseases of Medicinal & Aromatic Plants. This was followed by two sessions which were conducted by Dr. A N Shukla, Scientist E, Biodiversity Division of the Ministry of Environment, Forest and Climate Change (MoEF & CC), New Delhi; Dr. Jeetendra Kumar Vaishya, Research Officer (Medicinal Plants / Agronomy), National Medicinal Plants Board, Ministry of AYUSH, Government of India, Mr. Sameer Kant Ahuja, Chief Manager, Regulatory Multani Pharmaceuticals Ltd. and Mrs. Reeva Sood, Director, Tanishka Herbals.

On the second day, the progressive farmers from Faridabad & Palwal, Mr. Bijendra Singh Dalal & team participated in the conference with full enthusiasm and are interested in cultivation of Medicinal Plants with the support of MR-CMPP, MRIIRS and NMPB. This was followed by a lecture session (invited talk) by Eminent Scientist, Professor N K Dubey, Head, Department of Botany, Faculty of Science, Banaras Hindu University, Varanasi. He delivered an exceptional talk in which he emphasized the

importance of botanical pesticides with reference to the origin of mycotoxin and how nature had played the role of doctor in the absence of advancement in the past.

Following this Dr. A. A. Ansari, Former Scientist E, Botanical Survey of India (BSI), famously known as the "Crotonaria Man", delivered a detailed overview on plant pathogens on different species of medicinal plants.

Dr. Jeetendra Vaishya, National Medicinal Plants Board (NMPB) highlighted the following recommendations made by the participants: Strategies should be in place for the post-harvest management of the medicinal plant produce; Need of inventorization and taxonomic identification of biodiversity in the Aravalli ranges for conservation of Medicinal Plants; and Special attention is to be made to the utilization of resources (agro-economics) whereby farmers should be made aware of the expensive medicinal plants so that they may expand their cultivation.

NMPB supported the recommendations and agreed to extend full support for carrying out research and extension activities in the newly established Manav Rachna Centre for Medicinal Plant Pathology (MR-CMPP).

The proposed conference provided a platform to discuss and provide a framework for the conservation and sustainable use of Medicinal & Aromatic plants.

Media Coverage:



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फरीदाबाद > हरियाणा

मानव रचना ने "औषधीय और सुगंधित पौधों में रोगों के इको-फ्रेंडली प्रबंधन के लिए इमर्जिंग टेक्नोलॉजीज एंड इनेबलिंग टूल्स" पर राष्ट्रीय सम्मेलन का आयोजन किया


**हिन्दुस्तान
अब तक**


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Faridabad NCR

Haryana

Hindutan ab tak special

मानव रचना ने “औषधीय और सुगंधित पौधों में रोगों के इको-फ्रेंडली प्रबंधन के लिए इमर्जिंग टेक्नोलॉजीज एंड इनेबलिंग टूल्स” पर राष्ट्रीय सम्मेलन का किया आयोजन

 By **Dinesh Bhardwaj** - October 3, 2022

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Faridabad Hindustan ab tak/Dinesh Bhardwaj : 3 अक्टूबर। डिपार्टमेंट ऑफ बायोटेक्नोलॉजी एंड एमआर सेंटर फॉर मेडिसिनल प्लांट पैथोलॉजी (एमआर – सीएमपीपी), फैकल्टी ऑफ इंजीनियरिंग एंड टेक्नोलॉजी, मानव रचना इंटरनेशनल

<https://manavrachna.edu.in/paryavaran/2020/02/01/international-conference-on-environmental-challenges-and-solutions-receives-enthusiastic-participation-from-thousands/>

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By Spbharat — On Oct 3, 2022



LISTEN THIS NEWS

International Conference on 'Environmental Challenges and Solutions' receives enthusiastic participation from thousands



The three-day long international conference on 'Environment Challenges and Solutions' being organized jointly by Manav Rachna International Institute of Research and Studies (MRIIRS), ShikshaSanskritiUtthanNyaas (SSUN) and Dakshina Foundation was inaugurated today in the presence of thousands of enthusiastic students, researchers, scientists, international delegates, entrepreneurs and heads of various institutions.

The inaugural event saw the esteemed presence of the Chief Guest Shri G C Pati, Chairman, CGWB, GoI; Shri Atul Kothari, National Secretary, SSUN; Dr. Prashant Bhalla, President, Manav Rachna Educational Institutions; Shri Gopal Arya, National Coordinator of Environment Activity, RashtriyaSwayamsewakSangh; Dr G V R Reddy, Scientist, DST, GoI; Shri Sanjay Swami, Environment Education, SSUN; Dr. SSV Ramakumar, Director IOCL, R&D, Faridabad; Dr. Amit Bhalla, Vice President, MREI; SmtUpasna Aggarwal, Founder & Director, Dakshina Foundation; Dr. Alokdeep; Dr. Sanjay Srivastava, VC, MRIIRS; Dr N C Wadhwa, DG, MREI and several other eminent scholars.

Shri Atul Kothari while appreciating the crusading role of Manav Rachna for the protection of the environment said: "If universities have to truly understand their role, they must follow what Manav Rachna has been doing because it is only when environment consciousness is woven into the education system can we expect long-term solutions".

Mr. S S V Ramakumarenthused confidence that good start-up ideas by students will be supported by the Indian Oil Corporation. He reiterated that no single solution can solve environmental challenges and therefore more and more ideas must be floated and tested.

As the Chairman of the Central Ground Water Board, the Chief Guest Mr. G C Pati stressed upon the urgent interventions needed to address the country's depleting water levels.

The souvenir of the Dakshina Foundation was released on the occasion.

The first-of-its-kind 'Environment Parliament'witnessed students emulating the roles of various stakeholders such as educationists, environmentalists, policymakers, industrialists, rag pickers, social workers, common man, among others to arrive at solutions to protect the environment. With great enthusiasm presenting rational opinions and solutions, Grade VI-IX students from various private and government schools of Delhi-NCR and NGOs deliberated upon three themes based on environmental challenges: Local, Regional and Global Scale; Biodiversity Conservation, Ecosystem Services and Livelihood; and Solid Waste Management, Sanitation and Hygiene.

A grand exhibition on 'PanchMahabhootas' is on display in a mini SurajkundMela set-up. The exhibition had the works of organizations, individuals and artisans working on the five elements at the grass root level. From miniature paintings made out of waste material to hand-woven fabrics, from artifacts from waste to sustainable solutions, the exhibition presents some very simple yet unique initiatives that can be adopted in our day-to-day life.

More than 50 schools of Delhi-NCR also participated and submitted entries for the exhibition and the shortlisted entries were displayed at the exhibition.

Latest Events



International Conference on 'Environmental Challenges and Solutions' receives enthusiastic participation from thousands

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3 October - 2022 by Deepak Sharma



- **Manav Rachna Centre for Medicinal Plant Pathology (MR-CMPP)**

Quality Council of India (QCI) (established by the Government of India) has invited Manav Rachna Centre For Medicinal Plant Pathology (MR-CMPP) for sponsored collaborative research under Voluntary Certification Scheme for Medicinal Plant Produce (VCSMPP). This also has a reference from the State Medicinal Plants Board (SMPB), Haryana.

They intend to have a partnership comprising the following 4 aspects:

1. Experts to develop packages of practices for cultivation and collection of the various medicinal plant species
2. Certification of Demo Plots (Group certification) for medicinal plants growers, collectors, and areas.
3. Training and sensitization workshops for producers, consumers, Government Departments, State Forest Department officers etc.
4. One day Training program (Workshop) on GAP or GFCP of Medicinal Plants

Under this collaboration a capacity building cum sensitization training under the Voluntary Certification Scheme for Medicinal Plant Produce (VCSMPP) is scheduled in Manav Rachna International Institute of Research and Studies on 19th November 2022 One (1) day training program (Workshop) on GAP or GFCP for Medicinal Plant and caters to 50 farmers (majorly) from NCR Haryana.

- **Manav Rachna Start-up Initiatives For Sustainable Agriculture And Support Farmers**



TRICHO AGRONICA PVT. LTD

Lab-to-Land : An eco-friendly approach



FIELD TRIALS IN 4 AGRO-CLIMATIC ZONES



RECOMENTDATIONS

SKUAST, Srinagar: Foliar spray with oil bioformulation at 1×10^9 CFU can replace 75% chemical in controlling Septoria leaf spot, Cercospora leaf spot, early blight, late blight, buckeye fruit rot and Alternaria fruit rot disease and also increase the yield of 25.22%.

UHS, Bengaluru: Spray with oil bioformulation at 1×10^9 CFU can replace 50% chemical in reducing the intensity of early and late blight disease of tomato and also increase the yield of 97.47%.

IARI, Delhi: Oil bioformulation at 1×10^8 CFU was effective against fungal and bacterial diseases and enhance early flowering and fruiting in the tomato plant at lower doses like 4 and 6 ml per liter twice in one crop season.



M/s Tricho Agronica Pvt. Ltd

In the recent years there has been a heart warming paradigm shift of demographics in the Indian corporate landscape and the country has witnessed a titanic surge in the number of women entering the economic wave. M/s Tricho Agronica Pvt Ltd, Department of Biotechnology, Faculty of Engineering & Technology, MRIIRS is the Start-Up company have all women team members as stake holders. The Start-Up has received a grant of Rs 172 lacs under Indian Oil Startup Scheme (IOSUS), a "Start-up India" initiative that aims to support innovative ideas that have significant business potential, social relevance and/or are focused on environment protection. Further, such validated PoCs may be supported for commercialization through equity participation. The vision of the company is to provide Lab to Land- an eco-friendly approach. It aims to promote, develop and provide eco friendly products and technologies in safer, cost effective and sustainable manner. The mission of the company involves an eco friendly approach for sustainable agriculture understanding the nature of market, farmer"s aspirations and providing appropriate solution to them through organic farming keeping in mind the environment and health issues. Injudicious and long period utilization of synthetic agrochemicals in agriculture has led to toxic pesticide residues, appearance of pests, resistance and resurgence, environmental contaminations, negative impacts on human health and non-target organisms thus, leading to pernicious effects on food chain of the ecosystem. This has

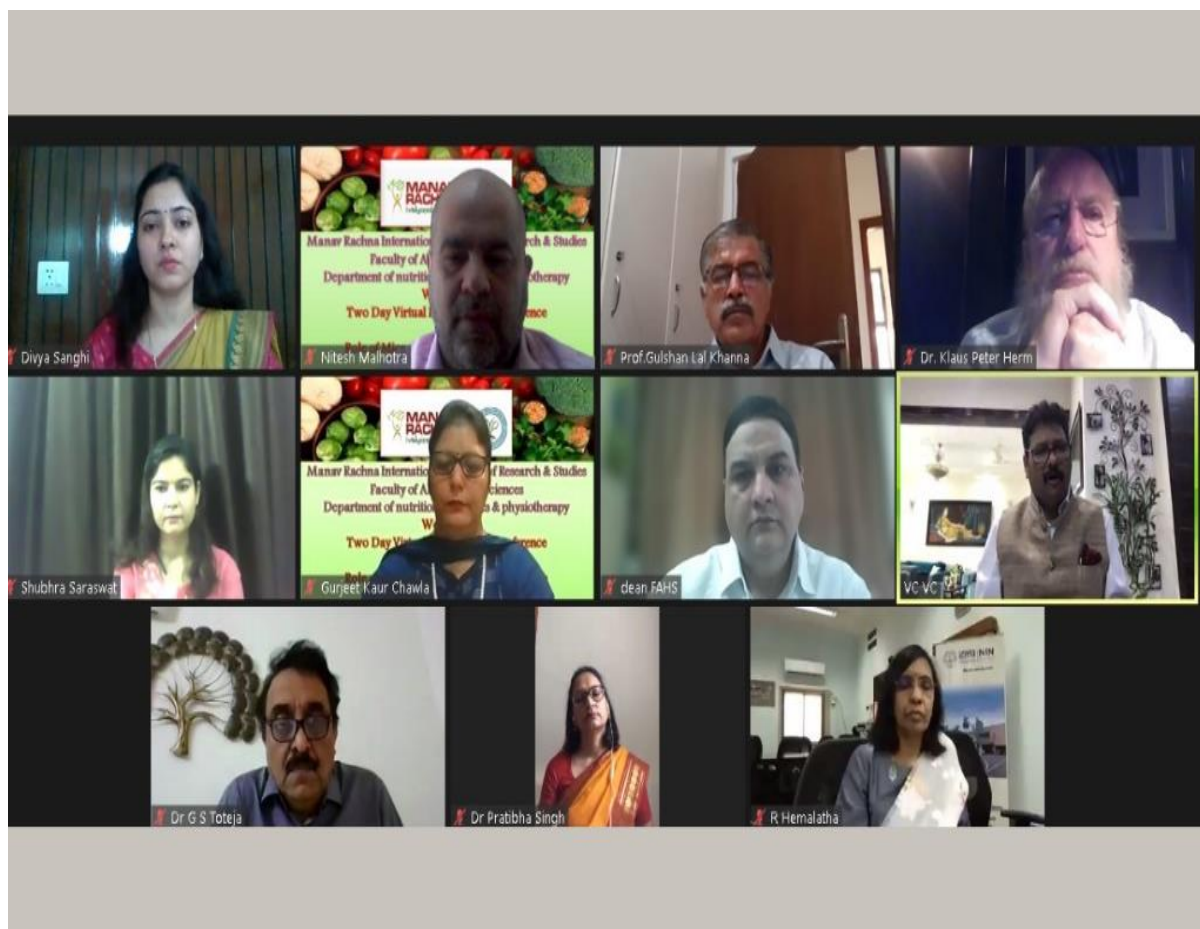
forced the researchers and pesticide industries to shift their focus to more reliable, sustainable and eco-friendly products. Bio formulations are a potential alternative to currently used agrochemicals and the need of the hour. The global biopesticides market was worth US\$3.3 billion in 2017 and the opportunity in the market is projected to surge to a valuation of US\$9.5 billion by 2025. The market is anticipated to rise at an impressive CAGR of 13.9% during the forecast period 2017–2025. Keeping these perspectives in view the company has designed its first bio formulation product „Bio elixir“ which is a remedy for bull’s eye pathogen at low cost. The synergistic effect of the bio elixir constituents has the capability to increase systemic resistance in plants by increasing photosynthesis process in plants. It is the bio fertilizer and a bio fungicide organic formulation which is available in the powder form. It is a non-chemical based formulation to reduce disease of tomato plant combining with features for enhancing soil structure and fertility, maintaining soil biological activities and promoting plant growth & biomass. The farmers will be highly benefited as it is very effective against those Alternaria isolates which has developed resistance against chemical fungicides. This will not only promote biodynamic agriculture but will also encourage eco-friendly sustainable lifestyle. M/s Tricho Agronica Pvt. Ltd. stands in spirit to this endeavor and is also committed for consolidating efforts towards improving crop productivity leading to food security with enhanced organic footprints. Dr. Nidhi Didwania-Managing Director Dr. Sarita Sachdeva-Director Dr. Abhilasha Shourie-Director Ms. Deepti Sadana-Director

• INTERNATIONAL PROGRAMME CONDUCTED ON HUNGER

International Conference on Virtual International Conference on Role of Micronutrients: Immunity and Health

Department of Nutrition and Dietetics Faculty of Allied Health Sciences organized a 2 Day – Virtual International Conference on Role of Micronutrients: Immunity and Health. The conference is being organized to focus on the importance of micronutrients and its role in health and disease.

The objective of the conference is to update with latest research and development in role of micronutrients in various physiological age groups, disease conditions etc. Scientists from all the corner of India and abroad has shared their ideas and knowledge and made this conference a huge success. Students also participated very enthusiastically in paper presentation and share their new ideas with the panellist.



SDG- 2 ZERO HUNGER



Manav Rachna International Institute of Research & Studies
Faculty of Allied Health Sciences
Department of Nutrition & Dietetics
Organises

**Two Day Virtual International Conference
on
Role of Micronutrients: Immunity & Health**

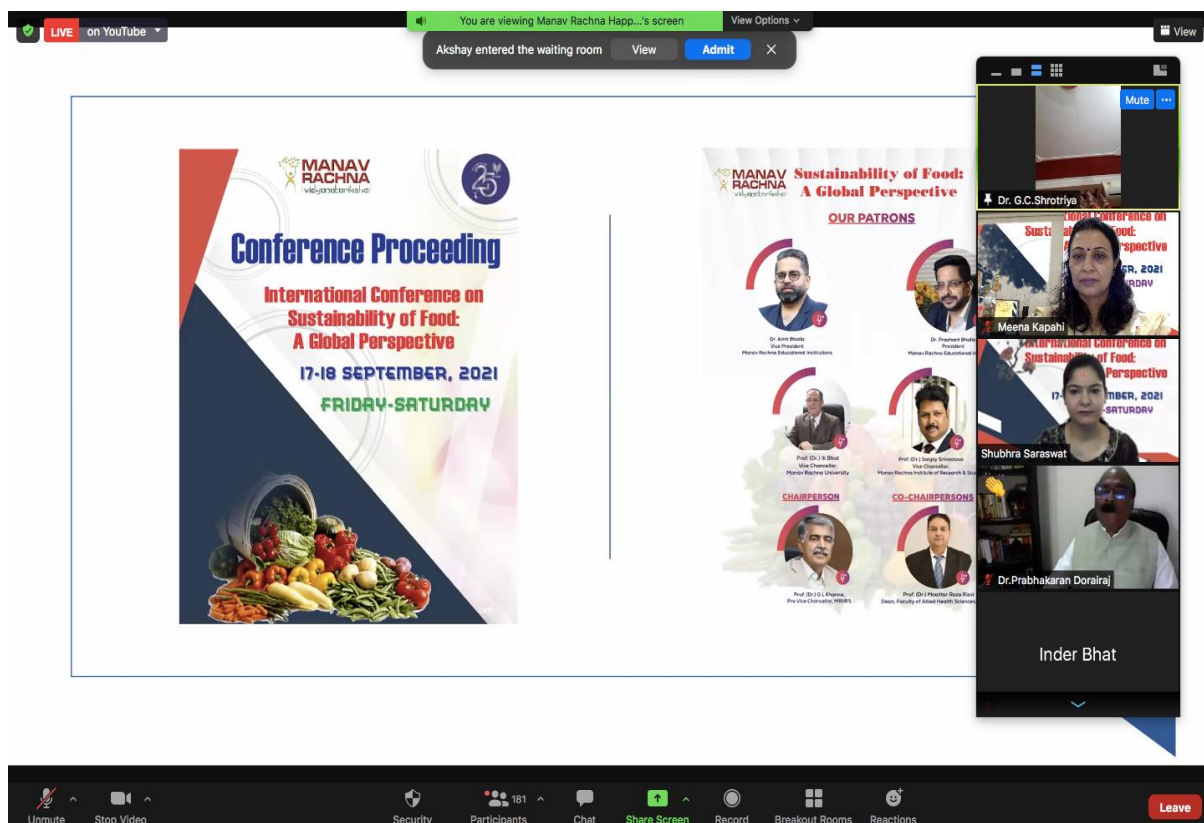
18-19 June 2021

www.manavrachna.edu.in

• International Conference on Virtual International Conference on Sustainability of Food-A Global Perspective

The Department of Nutrition and Dietetics, Faculty of Allied Health Sciences, Manav Rachna International Institute of Research & Studies in collaboration with Manav Rachna Centre for Peace and Sustainability, Manav Rachna University has organized the Virtual International Conference on **Sustainability of Food-A Global Perspective** from 17th – 18th September, 2021. The conference focus was on food sustainability SDGs of 2015, to disseminate and discuss the strategies of agriculture and food systems, achievement of food security, improved nutrition and promote sustainable agricultural practices. A sustainable food system lies at the heart of the United Nations' Sustainable Development Goals (SDGs).

The objective of the conference was to collaborate with industries, governments, and academicians to develop sustainable solutions to improving food security, focusing on sustainable food production, and supply chain resilience.



The screenshot displays a Zoom meeting interface during a virtual conference. The main content area shows two presentation slides. The left slide is the conference poster, titled "Conference Proceeding International Conference on Sustainability of Food: A Global Perspective" for 17-18 September 2021. The right slide lists the "OUR PATRONS" and "CHAIRPERSONS/CO-CHAIRPERSONS". A vertical stack of video thumbnails on the right shows participants, including Dr. G.C. Shrotriya, Meena Kapahi, Shubhra Saraswat, and Dr. Prabhakaran Dorairaj. The bottom control bar shows 181 participants, chat, share screen, and other meeting controls.

The Conference started with the inauguration ceremony and Saraswati vandana conducted on a zoom platform with the gracious presence of eminent personalities and more than 200 participants. Prefatory remarks were spoken by **Prof. (Dr.) G.L Khanna, Pro Vice Chancellor, MRIIRS**. He reiterated that the need of the hour is to develop sustainable food systems that are socially, economically and environmentally adoptable. **Prof. (Dr.) I. K. Bhatt, Vice Chancellor, MRU**, highlighted the significance of how SDG2 i.e. zero hunger is interconnected with other SDGs and there is a requirement to deliberate and channelize action at local, national and international level. He spoke about responsible consumption as well as development of sustainable means to ensure food security.

The main Discussion of the conference was around the malnutrition, environment and social sustainability, Waste Management, Air and Water management, kitchen garden, zero budget farming, vegetarianism, Four pillars of food sustainability-availability, accessibility, utilization, stability of nutritious food is also discussed. Conference also focused on social environmental and economic impact of food wastage and urged the participants to incorporate circular economy to have a resource efficient system.

Guest of honor: Dr. G.C Shrotriya, IFFCO Kisan Sanchar Limited, New Delhi (Sustainable System for Food and Nutritional Security - An Indian Prescriptive) briefed about the Indian system of sustainability in the food system, Hunger Index, then discussed India's position in world Agriculture. He further elaborated various factors related to poverty scenario in India and malnutrition problem. He also talked about technologies and techniques for enhancing food production with sustainability.

SDG- 2 ZERO HUNGER



*Manav Rachna Educational Institutions (MREI)
Celebrate Silver Jubilee Year*

International Conference on Sustainability of Food: A Global Perspective

**17-18 SEPTEMBER, 2021
FRIDAY-SATURDAY**



- **Faculty Development program on Integrative approach towards Current Practices in Food Product Development**

Department of Nutrition & Dietetics, FAHS successfully organized a 5-day Faculty Development Programme (29th April-4th May 2021).

Dr. Chindi Vasudevappa, Vice Chancellor NIFTEM was the guest of honour for the event. Dr. Chindi made audience ponder upon the idea of generation of food wastage especially in this pandemic situation and its effective utilization. Also, he focalized



MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS)
(Deemed to be University under Section 3 of the UGC Act, 1956)
(NAAC Accredited 'A' Grade)

FACULTY OF ALLIED HEALTH SCIENCES (FAHS)
DEPARTMENT OF NUTRITION & DIETETICS
IS ORGANIZING

Faculty Development Program (EDP)

INTEGRATIVE APPROACH TOWARDS CURRENT PRACTICES IN FOOD PRODUCT DEVELOPMENT

29th April to 4th May 2021

Eminent Speakers

Day	Speaker Name	Position
Day 1	Dr. Chindi Vasudevappa	Vice Chancellor, NIFTEM
Day 1	Dr. V.K Modi	Professor & Head, Amity University, Noida
Day 2	Dr. M.K Saluja	Prof & Dir, School of Agriculture, IGNOU
Day 2	Dr. A Madhavan	Director at Centre for Quality & Food Safety
Day 3	Dr. Suneeti Tuteja	Scientist E, Food & Agriculture Dept, BIS
Day 3	Dr. Tanweer Alam	Director, Indian Institute of Packaging, Mumbai
Day 4	Dr. Anil Panghal	Asst Scientist, College of Agricultural Tech, CCS
Day 4	Dr. Anju Sehrawat	Asst Director, Directorate of HR Management, CCS
Day 5	Dr. Bindu Agrawal	Asst Prof- Finance & Entrepreneurship
Day 5	Mr. Nitesh	IPR Associate, MRIIRS

about the need to go for local, as preached by our Hon'ble Prime Minister.

The first day sessions were delivered by Dr. Ashutosh Upadhyay, Professor and Head at Department of Food Science & Technology, NIFTEM and Dr. V.K Modi, Professor and Director at Amity Institute of Food Technology, Amity University, Noida on 5-stage model of new product development and 'Consumer acceptance is a key to success in NPD'.

On the Day 2 of the FDP, the session started with the speaker Dr A. Madhavan (Director, Centre for Quality & Food Safety). The key message by the speaker was that a lack of safe food creates a vicious cycle of disease and malnutrition which overburdens public health services, disrupts social and economic progress and detracts from the quality of life.

On the third day, the speaker of the sessions was Ms. Suneeti Toteja, Scientist E, Food & Agriculture Department, Bureau of Indian Standards. Ms. Suneeti Toteja explained various roles of FSSAI like regulation and monitoring of food, specifying limits for heavy metals, additives, pesticides, laying down food labeling standards, laying down methods of sampling, prescribing procedure and enforcement of quality control measures.

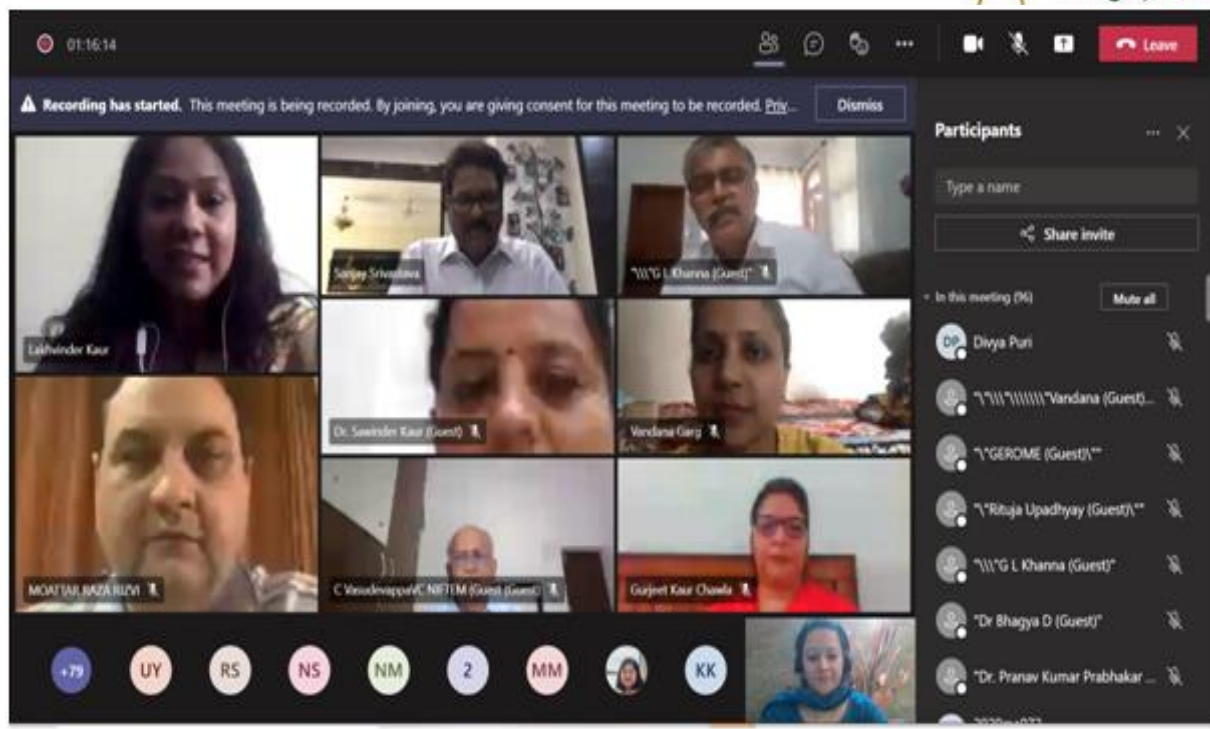
The sessions for the fourth day were taken up by Dr. Anil Panghal, Assistant Scientist at Department of Processing & Food Engineering College of Agricultural Technology, CCS, HAU, Dr. Anju Sehrawat Assistant Director, Directorate of Human Resource Management, CCS, HAU, and Dr. M.K Saluja Professor & Director, School of Agriculture, IGNOU. The sessions were concentrated on quality evaluation techniques in innovative processing and preservation technologies.

On the very last day Dr. Bindu Aggarwal (Head- IILM Centre for Entrepreneurship Development and Innovation, IILM, Gurugram) fascinated the participants by elaborating the role of entrepreneur, the risk factors involved while an entrepreneur starts a setup. The take away message to the participant was that Self-trust is an important for any entrepreneur to start.

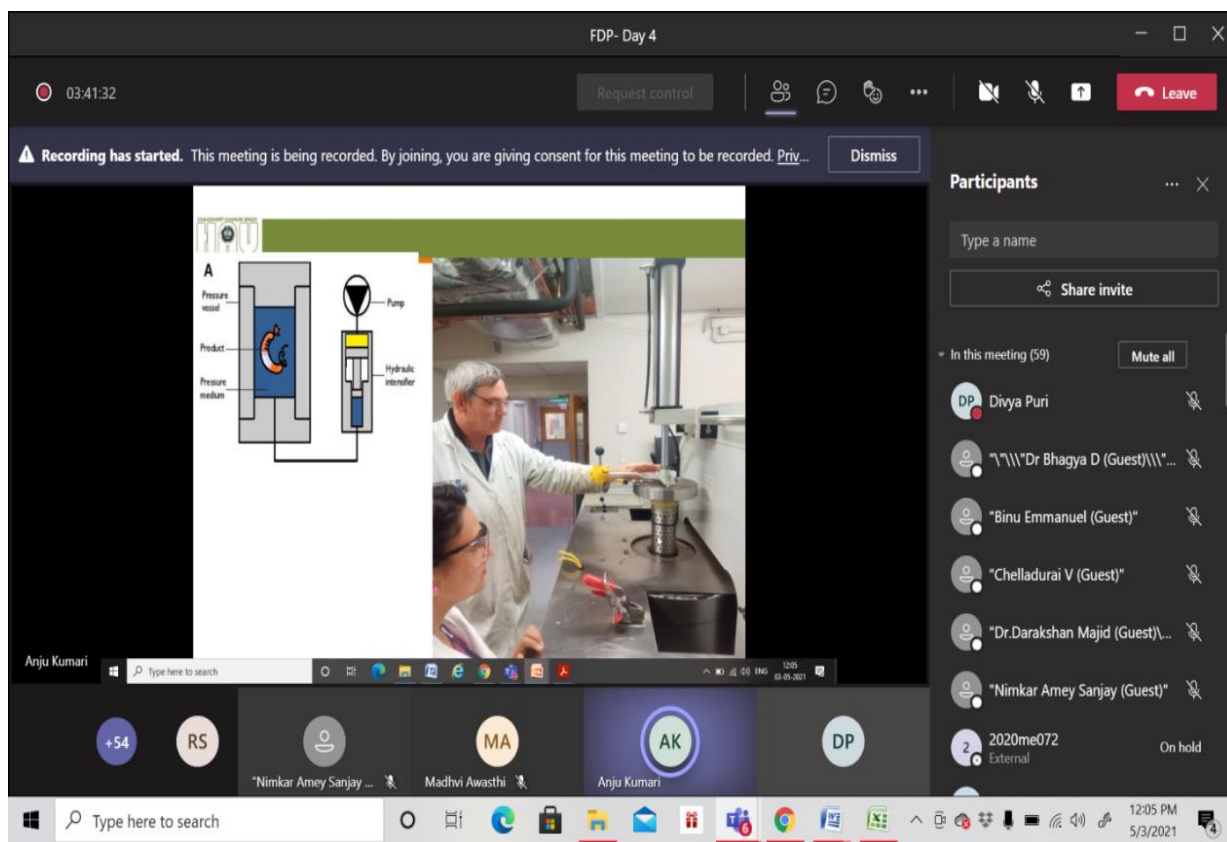
The valedictory event was concluded by the Dr GL Khanna, Honorable PVC MRIIRS . He addressed all the participants and thanked all the esteemed speakers of the FDP.

There was a total of 114 participants from prestigious organizations of the country.

SDG- 2 ZERO HUNGER

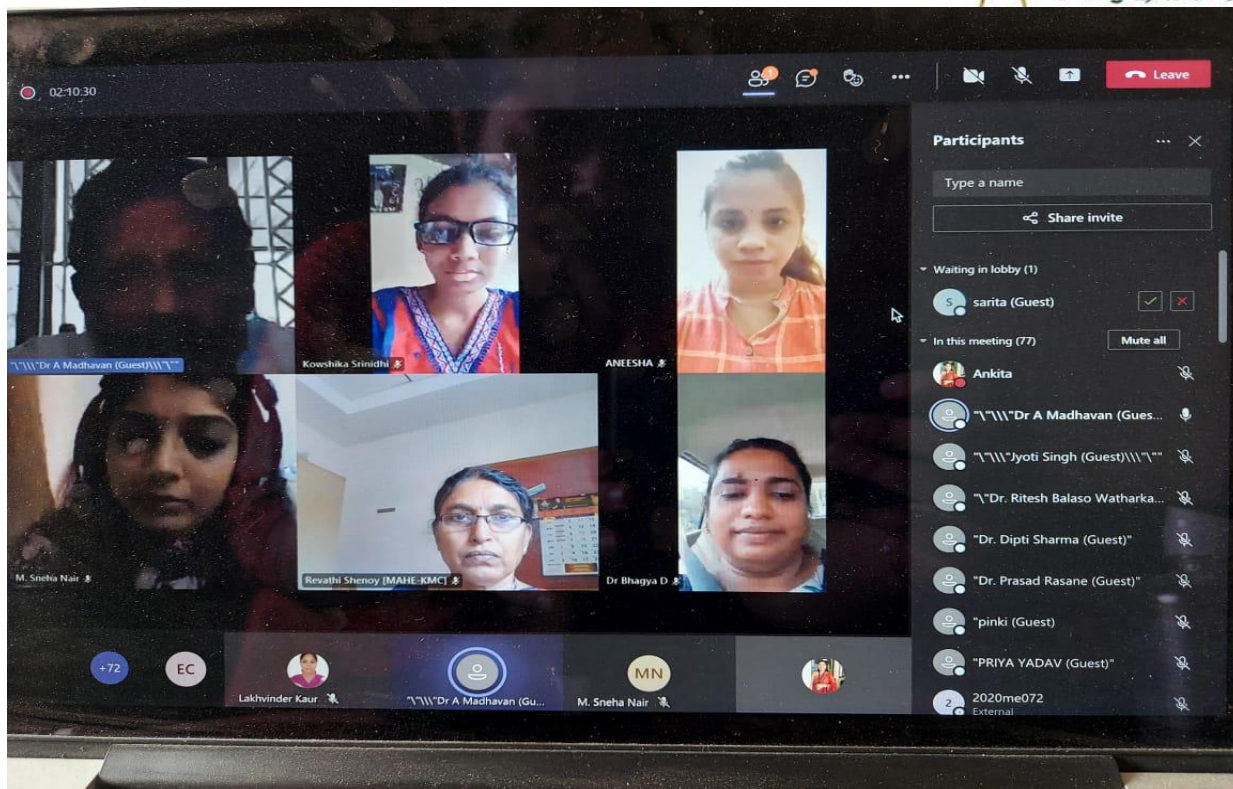


Faculty members from different organizations attending the FDP

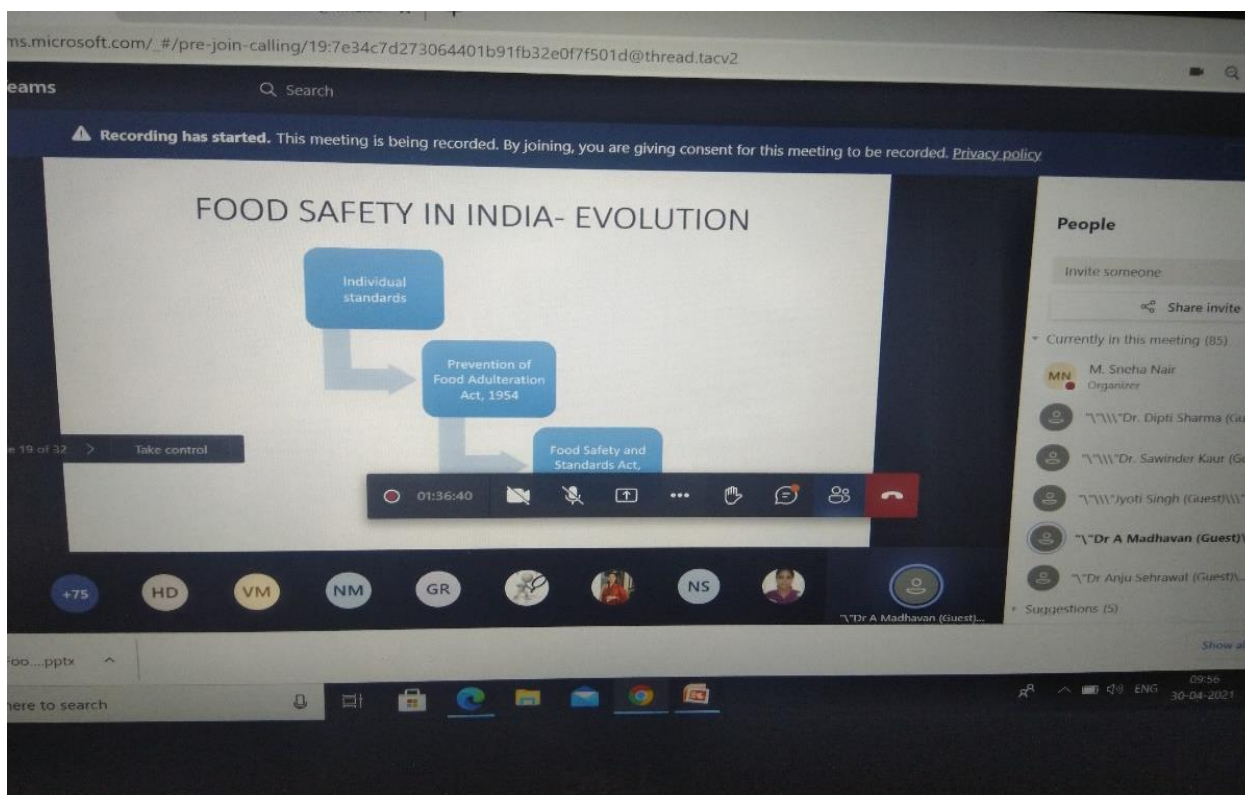


Speaker addressing the audience

SDG- 2 ZERO HUNGER



Question answer round with faculty members



Speaker addressing the issue of food safety

- **Workshop International Virtual Workshop on Food Safety and Security:**

Department of Nutrition and Dietetics is conducting an International Virtual Workshop on Food Safety and Security from 28th March 2022 to 30th March 2022.

The Honourable chief-guest of this event was Prof. Chindi Vasudevappa, VC, NIFTEEM, Haryana, He has explained various aspects of food safety, security and regulations. He clearly distinguished food safety and food Security by marking the importance of both in current scenario.

Followed by Inaugural session, Technical sessions was stated with the first speaker of the day, Dr. Indri Kusuma Dewi, Head of the department, Health Polytechnic of Surakarta, Ministry of Health, Surakarta, Indonesia. She started with what is functional foods and nutraceuticals; different bio-active compounds derived from our traditional foods and how they are being utilized in industry to formulate functional foods. In continuation, what safety measures have to be taken into consideration before and after using the active compounds.

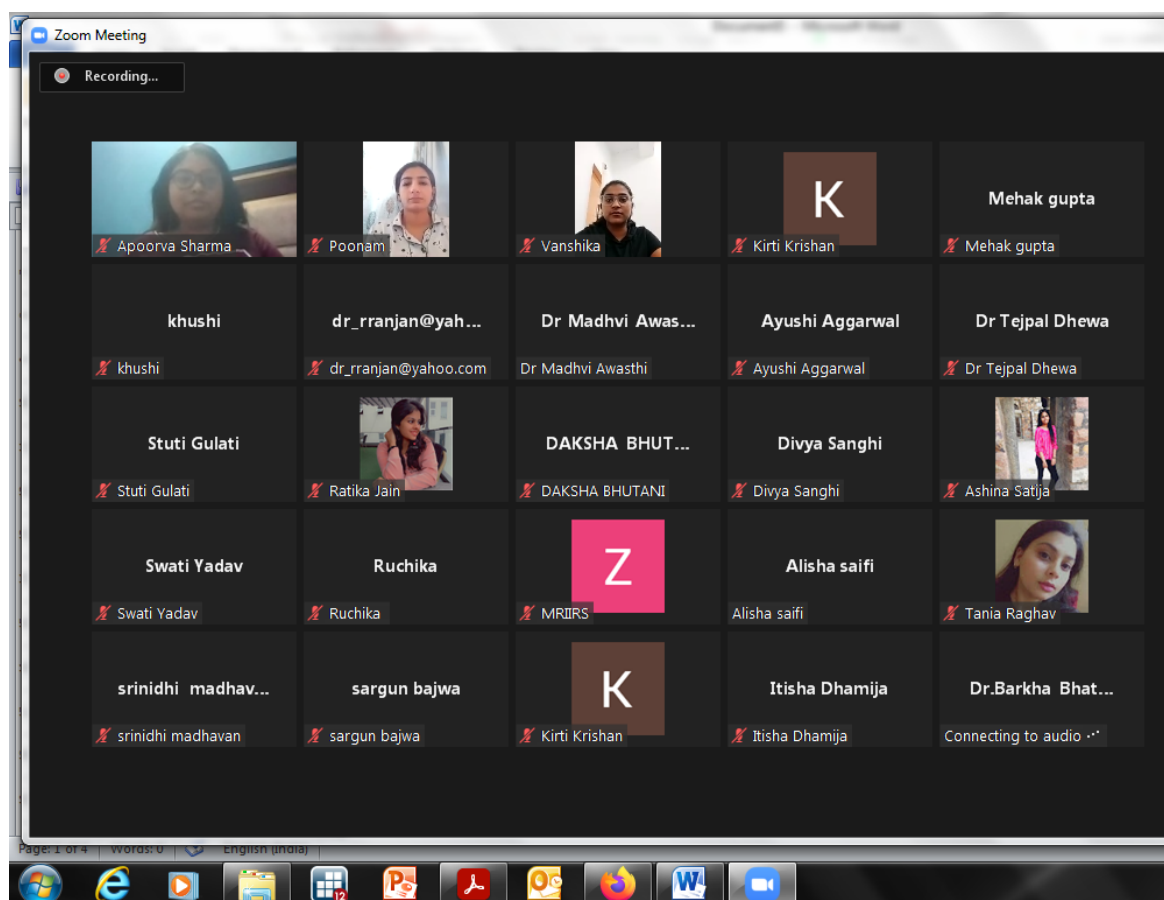
Further, Dr. Shalini Sehgal, Associate Professor and AFSTI President, Delhi Chapter, Bhaskaracharya Collge of Applied Sciences, Delhi, India was the second speaker of the event. She started her lecture by explaining about food safety, standards and regulations, their importance and about various hazzards which occur in the food. She elobrated preventive measures needed to avoid the possible contaminations in the food, guidelines what measures to be taken care in our daily life to avoid the contaminates in the food and make food safer.

Dr. Ravi Jadeja, Oklahoma, US highted the importance of HACCP by enumerating steps and its principles in very simple and comprehensible way. He also foccused on benefits of crtical control analysis. Participants were informed about carrer prospectus on the field of food safety.

The second speaker Dr. A. Madhavan, Director, CQFS, New Delhi emphasized about various international standards of food saftey viz, Codex, FSMS, ISO 22000 including HACCP.

Dr. Shailendra Singh Gaurav, Dean, Faculty of Agriculture, Choudhary Charan Singh University, Meerut, UP enlightened the session by explaining about nanotechnology and its application in food science and allied sciences, Nano-emulsions, Nano-edible coating and how nanoscience helps in detecting the adulterations and pesticide residues in food.

The Department of Nutrition & Dietetics organised one day Food safety training & certification (FOSTAC) Training governed by FSSAI . It is a large scale training programme of Food Safety & Standard authority of India. The aim of this training is to spread education and raise awareness on Food Safety & Standard Act, Rules & Regulation among food business operators. The training consists of three levels 1. Basic, 2. Advance and 3. Special. The Eminent speaker of the training was Dr Tejpal Dhewa, Assistant Professor, Dept. of Nutrition Sciences, Central University Haryana, India. The Session was attended by students, faculty members and research scholars from MRIIRS and outside universities.



Students Presence in the workshop



Recording **LIVE** on YouTube

Foodborne Illnesses

Foodborne Illnesses in the US and World

In the United States, **1 in 6** Americans contract a foodborne illness each year.

That's **48 million** annually. Resulting in...

128,000 hospitalizations
3,000 deaths

600M around the globe contract a foodborne illness each year.
420,000 cases end in death.

1/3 of all deaths

Children under 5 are only 9% of the world population, but 30% of foodborne illness deaths. They bear 3x their share of the burden.

Source: US Centers for Disease Control and Prevention

Source: World Health Organization, Foodborne Disease Burden Epidemiology Reference Group

ROBERT M. KERR
FOOD AND AGRICULTURAL PRODUCTS CENTER

Invited Speaker addressing the students

- **ONE DAY WORKSHOP – HEALTHY DIETS FOR A ZERO HUNGER ON WORLD FOOD DAY**

The AFSTI-INDIA (Delhi Chapter) organized World Food Day 2019 in association with the Ministry of Food Processing and Industry, PHD Chamber of Commerce and Industry, Jamia Hamdard and the Department of Nutrition and Dietetics, FAS, MRIIRS.

The theme of the year was HEALTHY DIETS FOR A ZERO HUNGER WORLD. The celebration started with the lamp lightening ceremony and the Saraswati Vandana by the students accompanied by the welcome address by Dr. A Madhavan, president, AFSTI Delhi.

Shri V.N. Gaur, IAS (Retd), Former CEO, FSSAI graced the event as the chief guest.

The event proceeded with addresses by guest of honor Dr. R S Khanna, Chairman, PHD CCI; Dr. N Bhaskar, Dr. Sanjay Srivastava, VC MRIIRS; and Dr. M.K. Soni, Pro-Vice-Chancellor, MRIIRS.

The first session of the workshop was concluded with the vote of thanks by Dr. Vasudha, Joint Secretary, ASFTI-INDIA (Delhi Chapter).

The second session was the Technical session 'Make Right, eat right, no waste'. The session was moderated by Prof. (Dr.) Afrozul Haq, Dean, SIST, Jamia Hamdard.

Dr. S S Ghonkrokta, Director, Council for Traditional Food; Dr. Seema Puri, Associate Professor, IHE, DU; and Ms. Indu Kumari, IGSSS were the eminent speakers of the event.

They highlighted the current issues on food, hunger, under and over nutrition. Emphasis was given on the use of traditional and indigenous foods to eradicate the problem of hunger and nutrition-related disorders.



Dr. Sanjay Shrivastav, Vice Chancellor, MRIIRS at World Food Day event

- **MILLET FEST 2022**

The Department of Nutrition and Dietetics, Faculty of Allied Health Science in association with ICAR- Indian Institute of Millet Research, Hyderabad organized a one-day Millet Fest with the theme: **"MILLETS FOR NUTRITION, HEALTH, FITNESS AND SPORTS PERFORMANCE"** on 14 September 2022 during National Nutrition

Month. The event was an initiative towards run up to the International Year of Millets 2023 led by Ministry of Agriculture and Farmers Welfare, Government of India and to promote production, consumption and create awareness about millets.

Many esteemed dignitaries the event namely Dr. Raj Bhandari, Member, National Technical Board on Nutrition, Niti Aayog as the chief guest, Dr B. Dayakar Rao, CEO- Nutrihub, ICAR-IIMR as the guest of honor Prof. (Dr) Arunangshu Mukherji, Director, CAWTM, MRIIRS, Dr Shweta Khandelwal, Head, Nutrition Research, PHFI and Dr Ashok Kumar, Dean, SGT University, Gurgaon. Mr RK Arora, Registrar, MRIIRS along with PVC Dr GL Khanna, Dean Dr MR Rizvi graced the occasion and welcomed the chief guest and the guest of honor.

Dr. Dayakar Rao, CEO-Nutrihub, IIMR, delivered the keynote address and disseminated the knowledge related millets, processing, health benefits, agribusiness linkages, and ongoing work at IIMR. A Panel discussion on Mainstreaming of Millets for nutrition, health, fitness and sports performance was conducted wherein all the guests discussed the importance of millets in day-to-day life. Dr. Raj Bhandari, Chief Guest chaired the panel discussion. Prof. Ashok Kumar provided his viwes on biofortification. Prof. Mukherjee provided his views on the cropping pattern in Haryana and sharing his life and live experiences. Dr. Shweta Khandelwal shared her views on the current scenario of malnutrition and thought-provoking insights on mainstreaming of millets in public health nutrition programs. Prof. G.L.Khanna, Pro -Vice Chancellor shared his insights on integration of millets in sports for fitness and performance.

Dr. Uma Chitra, Academic Consultant, NIN, Prof. Jagmeet Madan, National President, IDA and principal SVT college, Mumbai, Dr. Sheela Krishnaswany past national president, IDA, and senior consultant nutritionist, Goa Dr. Dharini Krishnan, Past national president, IDA, Chennai, Dr. Beena Arora, Chief Bariatric Dietitian, Delhi, Dr. S.

Koushalya, Registrar, Avinasalingham University and Joint Secretary, Nutrition Society of India to delivered radio mana Rachna talks on various aspects of millets during the national nutrition month.

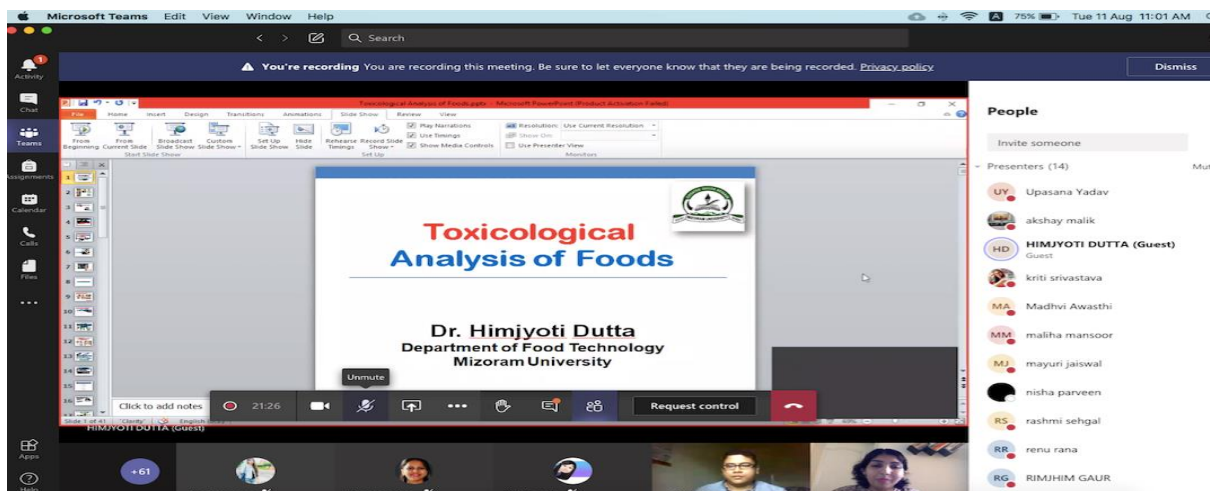
The millet fest has technical sessions, exhibitions of various startups, new products created by the students of Department of Nutrition and Dietetics and Faculty of Hotel Management. Recipe and poster competitions were conducted. Around 25 groups participated in the recipe competition from different universities and colleges and 20 groups participated in the poster competition from different schools and colleges in Delhi-NCR. Ms Rekha Raheja, food choreographer bagged the first prize for **B2 (Branyard & Beetroot) Burfi**. and Ms Muskan Gupta and her group from Department of Nutrition and Dietetics, FAHS, MRIIRS bagged the second prize for **Mixed Millet Momo's** in the Recipe competition. The technical session was attended by 300 participants from various colleges and universities participated namely Institute of Home Economics, University of Delhi, Jamia Hamdard, Gautam Budhha University, Banasthali Vidyapeeth to name a few. Earth spired has sponsored millet based goodies for the event and the start-ups Ancient golden millets, Sathguru Super Foods, Tasty Tribes and Dhingra Bakery displayed their products. It was a great enriching experience for all the participants and mutual learning for the delegates.

- **Expert lecture on Toxicological Analysis of Food**

Department of Nutrition and Dietetics, Faculty of Allied Health Sciences conducted an Expert talk on "Toxicological Analysis of Food" on 11th August 2020 on Microsoft Teams Platform. The eminent speaker of the event was Dr. Himjyoti Dutta (Assistant Professor at the Department of Food Technology, Mizoram University, Aizawl, Mizoram.)

Dr. Himjyoti Dutta currently involved in research on grain processing technologies, new product development, starch and other biopolymers' technology and has recently has started investigation on nanoparticles synthesis from food industry wastes.

The event was successfully conducted by Dr. Divya Sanghi (HOD), Dr. Upasana Yadav and Dr. Pratibha Singh. More than 99 participants attended the expert talk, comprising of students of bachelors and post-graduation along with faculty members from Nutrition and Dietetics Department. Dr. Himjyoti Dutta gave insights about food toxins and elaborated how certain foods can be toxic to humans if consumed in high amounts and cause certain life-threatening diseases. He also talked about various types on microbial, chemical and natural food toxins. He focused on quantitative analysis of toxins present in food by various instrumental analysis like using GC, HPLC, LCMS, ELISA etc. giving details about principle and working of these instruments. The event proved to be successful as students had an interactive session and better understanding of toxicological analysis and its important in food processing.



Dr. Himjyoti Dutta addressing students

- **Diet and Nutrition Clinic:**

Manav Rachna International Institute of Research & studies has its own Diet and Nutrition Clinic. In Clinic, Nutrition counselling for different metabolic conditions is provided.

On regular intervals we plan camps to different areas to reach out to those people who are unable to visit in OPD. Our vision is to have a healthy and fit society.

The Clinic has facility to do nutritional assessment by anthropometric measurement and body composition analysis. We explain them about their conditions and guide them dos and don'ts with nutrition perspective. Population of all age groups are welcomed in a clinic. Nutrition consultations is provided on general health, obesity and overweight, diabetic, CVD, Hypertension, thyroid, kidney, and liver condition etc.



Awards and Recognitions

- Dr.Lakhvinder Kaur Deputy Director MRIIRS has been presented with CQFS Food Safety award ,2022 on World Food Safety Day 2022.



- Neha Chauhan ,Devansh and Lakhvinder Kaur participated in Anveshan :2021-2022 for creating App based on Intelligent packaging Film for food safety



- Indumati S has been awarded for best paper presentation for the Paper titled "Assessment of Awareness level of Food Safety Knowledge among School Teachers during Covid -19 Pandemic in Etawah District Uttar Pradesh

