

MARUDHAR KESARI JAIN COLLEGE FOR WOMEN, VANIYAMBADI



(A Project of Sri Marudhar Kesari Jain Trust)

Recognised u/s 2(f) & 12(B) by UGC Act, 1956 - Permanently Affiliated to Thiruvalluvar University Re-Accredited by NAAC with "A" Grade, An ISO 9001:2015 Certified Institution

PG AND RESEARCH DEPARTMENT OF BIOTECHNOLOGY ORGANIZED SCIENCEACADEMIES LECTURE WORKSHOP ON INNOVATION IN MICROBIOLOGY AND BIOTECHNOLOGY - 09.12.2021 & 10.12.2021

INVITATION

MANAGEMENT TRUSTEES

Sri M.Vimmal Chand Jain Sri J.Rathanlal Jain Vice President Sri C.Lickmichand Jain Sri N.Sripal Kumar Jain Sri M.Sudarsan Kumar Jain Sri K.Rajesh Kumar Jain

Trustee Sri N.Lalith Kumar Jain Sri K.Anand Kumar Jain Sri U.Rishab Jain

PATRON

Dr.M.Inbavalli

CONVENER

Dr. M.Gomathi
Assistant Professor& Head,
PgC and Research Department of Biotechnology,
Maruthus Kesari Jain College for Women,
Vanlyambeath - 635 60, It Pupattur Dr. Tamil Nadu
Email: hod.biotechnology@mkjc.in; Mobile: +91-9159891623

RGANIZING COMMITTEE

Dr.R. Jesu Jaya Sudan, Research Co-Ordinator Dr. J. LesithaJeevaKumari, Research Associate

NO. OF PARTICIPANTS : Maximum 150

REGISTRATION FREE

ps://forms.gle/i8XoQBTmL6wJTbSN9

SCIENCE ACADEMIES' LECTURE WORKSHOP INNOVATIONS IN MICROBIOLOGY AND BIOTECHNOLOGY

Sponsored By







Organized by



PG AND RESEARCH DEPARTMENT OF BIOTECHNOLOGY MARUDHAR KESARI JAIN COLLEGE FOR WOMEN

Recognized Under sec 2(f) & 12(B) of UGC Act of 1956 Permanently Affiliated to Thiruvalluyar University Re-Accredited with "A" Grade by NAAC || An ISO 9001:2015 Certified Institution Marudhar Nagar, Chinnakallupalli, Vaniyambadi - 635 751

Website: www.mkjc.in





HOST INSTITUTION

unharKesari Jain College for Women (MKJC), established in the year 1994, is oved by Govt, of Tamilinadu, Recognized ws 2(f) & 12(B) of UGC act 1956 and ermanently Affiliated to Thiruvalluvar University. It has been re-accredited with grade (2nd cycle) by NAAC, Bangalore (UGC recommended) in the year 2019 and field by BSI as an ISO 90112015 certified institution in the year 2018. The fution is "a dream come true" of Sri, Marudhar Kesari, who was a great poet, erful orator and a champion of social service and public welfare.

I focus of the college is RURAL DEVELOPMENT through women education. The genow offers 16 U.G. Programmes, 13 P.G. Programmes, 7 M.Phil. grammes and 6 Ph.DProgrammes. The college has grown to a strength more than a students, 181 Teaching staff and 159 Non Teaching staff.

ollege is located in Vaniyambadi - Tirupattur Highway in Vellore District. It has a rling campus of 25 acres with a builtin area of about 2,15,000Sq.ft. It is set amidst full sylvan surroundings at the foot of Yelagiri Hills with vast stretches of greenery yand providing a congenial atmosphere for teaching and learning.

ABOUT THE DEPARTMENT

QUIT THE DEPARTMENT
department of UG Biotechnology was started in the year 2007, PG Biotechnology in ear 2014 &M Phil Biotechnology in the year 2018 and Ph.D Biotechnology in the 2019. The department has well established laboratory facility. The department dically organizes various Seminars / Conferences/ workshops. Faculty members of rechnology department are actively engaged in Tenching, Research and Publication of es. & books and in turn impart innovative research oriented tenching to the students.

ABOUT SCIENCE ACADEMIES

an Academy of Sciences was founded in 1934 by Sir C.V. Raman, Nobel Laureate, Its settives include promoting the progress and upholding the cause of science, both in a and applied branches. Starting in the mid-1990s, the Indian Academy of Sciences initiated several activities for the benefit of students and teachers of science all over country. These included Summer Research Fellowships for students and teachers to k with Fellows of the academy and other faculty in the country; Refresher Courses of week duration for teachers, Lecture Workshops of 2 or 3 days duration for students teachers. The Indian National Science Academy (New Delhi) and The National demy of Sciences, India (Allahabad) joined with this Academy in conducting three of programmes viz. Summer Research Fellowships, Refresher Courses, and tureWorkshops.

RESOURCE PERSONS

Dr. D. J. Bagyaraj NASI Honorary Scientist and Chairman, Centre for Natural Biological Resources and Comm Bengaluru-560 064.

Dr. MS.Sheshshayee Professor, Department of Crop Physiology, University of Agricultural Sciences, GKVK Campus, Bengaluru – 560 065.

Dr. T.K. Adhya
Director, South Asia Nitrogen Centre,
New Delhi Co-Director (Science) URRI GCRF South Asia Nitrogen Hub &
Professor, School of Biotechnology,
Kalinga Institute of Industrial Technology (Deemed University) Bhubaneswar – 751 024, Odisha

Dr. H. Prathap Kumar Shetty Professor, Department of Food Science and Te School of Life Sciences, Pondicherry University (A Central University), RV Nagar Kalapet, Pondicherry – 605 014.

TOPICS TO BE COVERED

- Microorganisms as a Source of Human Medicine

 •Arbuscular/Mycorrhizal Fungi for Sustainable Agriculture

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 •Use of stable isotopes in understanding biological sciences

 •Breeding Rice to produce more with less water

 •Bioldiversity beneath our feet soil microbial diversity

 •Plant growth promotoryrhizobacteri in sustainable agriculture

 •Gut based strategies for the management of health and wellness

 Inter and intra-microbial communications in health and diseases

Students/ Research Scholars undergoing M.Sc./M.Phil./Ph.D. in Life Sciences from recognized Institutions, Faculty and Industry Professionals.

Dr. M. INBAVALLI, M.Sc., M.C.A., M.Phil, Ph.D., PRINCIPAL Marudhar Kesari Jain College for Women Vaniyambadi-635 751.



AGENDA



SCIENCE ACADEMIES' LECTURE WORKSHOP ON INNOVATIONS IN MICROBIOLOGY AND BIOTECHNOLOGY

PG AND RESEARCH DEPARTMENT OF BIOTECHNOLOGY

MARUDHAR KESARI JAIN COLLEGE FOR WOMEN VANIYAMBADI

Dates of the Workshop: 9.12.2021 & 10.12.2021

Venue/Platform: ZOOM Application and You Tube Live

Streaming

PROGRAMME SCHEDULE

9th December, 2021 (Day 1)

Inauguration: 10:00 A. M. – 10:15 A. M (9.45 to 10.00 am – Participants admitted in the Zoom App)

Welcome Address	Dr. Ms. Sheshshayee Professor, Department of Crop Physiology, University of Agricultural Sciences, GKVK Campus, Bengaluru – 560 065.
Felicitation	Dr. M. Inbavalli Principal, Marudhar Kesari Jain College For Women, Vaniyambadi – 635751

Dr. M. INBAVALLI, M.Sc., M.C.A., M.Phil, Ph.D., PRINCIPAL Marudhar Kesari Jain College for Women Vaniyambadi-635 751.

TECHNICAL SESSION

TIME	TOPIC	RESOURCE PERSON		
Chief Guest Introduction		Ms. A. Ramya sree III B.Sc Biotechnology		
10.15 a.m – 11. 30 a.m	_	Dr. H. Prathap Kumar Shetty Professor, Department of Food Science and Technology, School of Life Sciences Pondicherry University (A Central University), RV Nagar Kalapet, Pondicherry 605 014.		
Chief Guest Introduction		Ms. N. Uzma Nuzhath II B.Sc Biotechnology		
11. 30 a.m – 12. 45 p.m	Use of stable isotopes in understanding biological sciences	Dr. MS Sheshshayee Professor, Department of Crop Physiology, University of Agricultural Sciences, GKVK Campus, Bengaluru – 560 065.		
Lunch Break: 12.45 P. M. – 01.45 P.M.				
Chief	Guest Introduction	Ms. A. Preetha III B.Sc Biotechnology		
	Biodiversity beneath our feet - soil microbial diversity	Dr. T.K. Adhya Director, South Asia Nitrogen Centre, New Delhi Co-Director (Science) UKRI-GCRF South Asia Nitrogen Hub & Professor, School of Biotechnology, Kalinga Institute of Industrial Technology (Deemed University), Bhubaneswar – 751 024, Odisha.		
Chief Guest Introduction		Ms. R. Pavithra II B.Sc Biotechnology		
03.00 p.m – 04.15 p.m.	Microorganisms as a source of Human Medicine	Dr. D. J. Bagyaraj, NASI Honorary Scientist and Chairman, Centre for Natural Biological Resources and Community Development, 41, RBI Colony, Anand Nagar, Bengaluru – 560 024.		

Vote of Thanks

Ms. V. Priya III B.Sc Biotechnology

10th December, 2021 (Day 2)

TIME	TOPIC	RESOURCE PERSON		
10.00 a.m – 11. 15 a.m	Arbuscular Mycorrhizal Fungi for Sustainable Agriculture	Dr. D. J. Bagyaraj, NASI Honorary Scientist and Chairman, Centre for Natural Biological Resources and Community Development, 41, RBI Colony, Anand Nagar, Bengaluru – 560 024.		
11. 15 a.m – 12.30 p.m	Breeding Rice to produce more with less water	Dr. MS Sheshshayee Professor, Department of Crop Physiology, University of Agricultural Sciences, GKVK Campus, Bengaluru – 560 065.		
Lunch Break: 12.30 P. M. – 01.30 P.M.				
01.30 p.m – 02.45 p.m.	Plant growth promotory rhizobacteria in sustainable agriculture	Dr. T.K. Adhya Director, South Asia Nitrogen Centre, New Delhi Co-Director (Science) UKRI-GCRF South Asia Nitrogen Hub & Professor, School of Biotechnology, Kalinga Institute of Industrial Technology (Deemed University), Bhubaneswar – 751 024, Odisha.		
02.45 p.m – 4.00 p.m.	Inter and intra-microbial communications in health and diseases	Dr. H. Prathap Kumar Shetty Professor Department of Food Science and Technology School of Life Sciences Pondicherry University (A Central University), RV Nagar Kalapet, Pondicherry 605 014.		
04.00 p.m – 04. 15 p.m.	Valediction			
Vote of Thanks	Ms. J.S. Lakshmi Praba III B.Sc Biotechnology			

Dr. M. INBAVALLI, Msc., McA., MPM. Ph PRINCIPAL Marudhar Kesari Jain College for Wome Vaniyambadi-635 751.



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REPORT

DAY - 1 (09.12.2021)

Two day Virtual Science Academies Lecture Workshop was organized by Department of Biotechnology at Marudhar Kesari Jain College for Women, Vaniyambadi in the zoom platform. 100 participants in zoom and more than 199 participants in the youtube live stream have participated. The program started with prayer song. Welcome address was given by Dr. MS Sheshshayee Professor, Department of Crop Physiology, University of Agricultural Sciences, Bengaluru. Followed by Dr M. Inbavalli, Principal, MKJC felicitated the gathering. Next Ms. A. Ramya sree (III B.Sc Biotechnology) introduced the first speaker Dr. Prathap Kumar Shetty, Professor, Department of Food Science and Technology, School of Life Sciences, Pondicherry University (A Central University), Pondicherry. Then Dr. Prathap Kumar Shetty had taken the session on the topic of Gut Based Strategies for the Management of Health and Wellness. This session describes fermented foods and diversity of fermentation, and also explains about benefits of fermented food to the gut. Next Ms. R Pavithra (II B.Sc Biotechnology) introduced the second speaker Dr. D J Bagyaraj, NASI Honorary Scientist and Chairman, Centre for Natural Biological Resource and Community Development, Bangalore. Next Dr. D J Bagyaraj had taken the session on the topic "Microorganisms as a Source of Human Medicine". In this session he explains about various benefits of microorganism in Industry, Aquaculture, Agriculture, Biofertilizers, plant growth promoting rhizo microorganism, biocontrol organism etc. which uplifted the thoughts of participants.

HEAD OF THE DEPARTMENT

Dr. M. INBAVALLI, M.Sc., M.C.A., M.Phil, Ph.D., PRINCIPAL Marudhar Kesari Jain College for Women

udhar Kesari Jain College for Women Vaniyambadi-635 751. Afternoon session Ms. A. Preetha (III B.Sc Biotechnology) introduced the third speaker Dr. T. K. Adhya, Director, South Asia Nitrogen Centre, New Delhi Co-Director (Science) UKRI- GCRF South Asia Nitrogen Hub & Professor, School of Biotechnology, Kalinga Institute of Industrial Technology (Deemed University), Odisha. Subsequently Dr. T. K. Adhya had taken the session on the topic "Biodiversity beneath our feet- soil microbial diversity". He clearly explained about the biodiversity and different microorganisms in the soil and he elicited many unknown extremities in soil biodiversity which enlighten the participants.

Next Ms. Uzma Nuzhath (II B.Sc Biotechnology) introduces fourth the chief guest Dr M S Sheshshayee, Professor, Department of Crop Physiology, University of Agricultural Sciences, Bengaluru. Then Dr M S Sheshshayee had taken the session on the topic of Use of Stable Isotopes in Understanding Biological Sciences. In this session he noticeably explains about Isotopes and the mass calculations. Eventually the first day programme was ended with vote of thanks by Ms V Priya (III B.Sc Biotechnology).

DAY - 2 (10.12.2021)

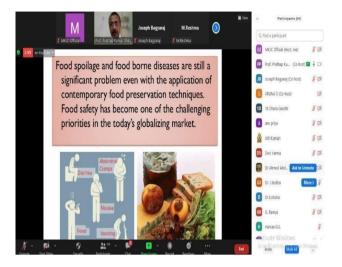
The Second day of the conference started with prayer song. Followed by D J Bagyaraj had taken the session on the topic Arbuscular Mycorrihizal Fungi for Sustainable Agriculture. Then Dr M S Sheshshayee had taken the session on the topic of Breeding Rice to produce more with less water. Followed by Dr. T. K. Adhya had taken the session on the topic Plant Growth Promotory rhizobacteria in Sustainable Agriculture. Next Dr. Prathap Kumar Shetty had taken the session on the topic of Inter and Intra Microbial Communications in health and diseases. Finally the Second programme ended with vote of thanks delivered Ms J S Lakshmiprabha (III B.Sc Biotechnology)

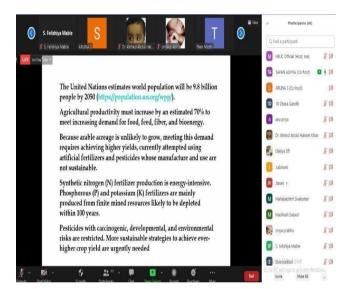
Dr. M. INBAVALLI, M.S., M.C.A., M.Phil, Ph.D., PRINCIPAL Marudhar Kesari Jain College for Women Vaniyambadi-635 751.

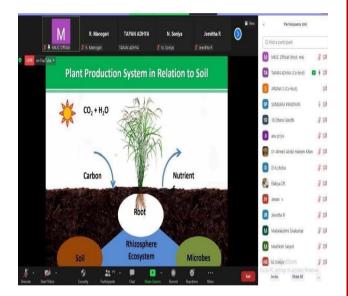
HEAD OF THE DEPARTMENT

PHOTOS









Dr. M. INBAVALLI, M.S.C., M.C.A., M.Phill, Ph.D., PRINCIPAL Marudhar Kesari Jain College for Women Vaniyambadi-635 751.