



# GURU NANAK COLLEGE (AUTONOMOUS)

Affiliated to University of Madras and Re-Accredited at "A" Grade by NAAC

Guru Nanak Salai, Velachery, Chennai – 600042.

## School of Sciences

### Department of Biotechnology

<b>Event Title</b>	<b>Webinar on Fermentation Technology</b>	
<b>Category</b>	<b>Webinar</b>	
<b>Date</b>	<b>From : 13.7.2020</b>	<b>To : 16.7.2020</b>
<b>No. of Resource Person</b>	<b>6</b>	
<b>No. of Participants</b>	<b>300</b>	

#### (1) Report Description :

The chemical based products are substituted with biobased products. For the bio-based product production Fermentation technology needs to be understood. This webinar is intended to throw light over the various basics concepts which leads to the successful fermentation technology process. This is a Academic-Industrial interface webinar series.

#### (2) Report

The Department of Biotechnology organized a webinar series titled “Fermentation Technology”, started from July 13, 2020 to July 16, 2020. 730 participants from various parts of India and also including five countries name China, Melbourne, UAE, Hong Kong and Macedonia registered and about 300 participants regularly attended all the session. The event was structured with seven technical sessions; each one was engaged by an eminent researcher cum experienced academician from the specific area of interest.

**Session-I- Timing:11.00 a.m. to 12.00 p.m. :** **Dr. Gunita Arun Chandok**, Vice Principal of Guru Nanak College, inaugurated the webinar series on July 13, 2020. **Prof. Doble Mukesk** , Eminence professor, Department of Biotechnology, IIT Madras and the topic he spoke was “Need for fermentation technology”. The objective of his talk was upon the history, importance of fermentation for the production of pharmaceutical product, probiotics. and their technical concerns.

**Session-II- Timing: 3.00 to 4.00 p.m.:** **Dr. L.R.S. Kalanithi**, Vice Principal Shift I, delivered the felicitation address. The session technical resource person was **Dr. B. Samuel Jacob**, Assistant Professor of Biotechnology, SRM Institute of Science & Technology and shared his

expertise on, “Up-stream process in a fermentation industry and its innovation”. The session was enriched with very elaborate details on essentials of upstream processing and their importance in different regards. He also spoke about the innovation in the field of fermentation with *in-silico* aids.

**Session-III:14<sup>th</sup> , July 2020, Timing: 11.30 a.m. to 1.00 p.m.:** The resource person was **Dr. Veenagayathri**, Assistant Professor of Biotechnology, Stella Maris College. She highlighted upon the composition of media, the need for media formulation from a small lab scale to a scale up to industrial scale.

**Session-IV: Timing: 3.00 p.m. to 4.00 p.m.:** The felicitation address was delivered by **Dr. J. Jayanthi**, Dean Research and the resource person for the session was **Dr. Bharathi Ravikrishnan**, Assistant Professor and Head, Department of Biotechnology, Guru Nanak College and delivered talk on “Types of fermenter and their parts”. She highlighted upon the design of every parts of the fermenter and their applications. She also spoke about the specific fermenter used for plant cell and *in-vitro* animal cell cultures and also about fermenter models used in tissue engineering.

**Session-V: Date: 15<sup>th</sup>, July 2020 Timing: 11.30 a.m. to 1.00 p.m.:** **Dr.S.E. Noorjahan**, Dean - School of Sciences, felicitated the session with her warm words. and **Dr. Veenagayathri**, Assistant Professor of Biotechnology, Stella Maris College was the resource person and enlightened the participants with processes of metabolite production and concepts of mass transfer.

**Session-VI: Timing: 3.00 p.m. to 4.00 p.m.:** **Dr. RM Ezhilarasi**, Associate Professor and Head - Department of Chemistry & Chair person-Life Science, Guru Nanak College felicitated the session and **Prof. S. Ramalingam**, from Centre for Biotechnology, Anna University, shared his expertise on, “Different modes of cultivation of microbes”. The conventional and advanced approaches were well discussed.

**Session-VII: Date: 16.7.2020, Timing: 11.00 a.m. to 12.30 p.m.:** The session was felicitated by **Dr. V. Srimathi**, Dean Academics and an interesting talk was delivered by **Dr. P. Ganesan**, Senior Scientist, Department of Biochemistry and Biotechnology, CSIR - CLRI, Chennai. In his presentation, the principle and applications of various biophysical techniques involved in the isolation, purification and characterization of intracellular, cellular and extracellular products of downstream processing were well explained. Researchers, Faculty members and students from all over India were actively participated in this well organized webinar series.

At the end of every session the multiple choice test and feedback were conducted through Google forms. All the sessions were live streamed in YouTube through our Channel, “Biospectra Department of Biotechnology. Dr. Bharathi Ravikrishnan, Assistant Professor and Head, Department of Biotechnology, served as the convener and Dr. M. Mahendrakumar, Assistant Professor of Biotechnology, served as the Organizing Secretary & co-hosted the sessions without any technical glitch. The questions were posted by the participants in the chat which was clarified by the respective resource person. The valediction of the webinar series was ended with the warm words and wishes of Dr. Gunita Arun Chandok, Vice Principal, Shift II. On behalf the Department of Biotechnology, Guru Nanak College, I thank the management for granting permission to host the webinar successfully.

**Youtube Links:**

Sessions	You tube Link
Session-I	<a href="https://youtu.be/_8TyDGsRyCw">https://youtu.be/_8TyDGsRyCw</a>
Session-II	<a href="https://youtu.be/_Uuxi4oQTulg">https://youtu.be/_Uuxi4oQTulg</a>
Session-III	<a href="https://youtu.be/_FuFm761QH_a">https://youtu.be/_FuFm761QH_a</a>
Session-IV	<a href="https://youtu.be/_bG7QgiknWPE">https://youtu.be/_bG7QgiknWPE</a>
Session-V	<a href="https://youtu.be/_awK-5NuuIm">https://youtu.be/_awK-5NuuIm</a>
Session-VI	<a href="https://youtu.be/_TWs9mxEarlY">https://youtu.be/_TWs9mxEarlY</a>
Session-VII	<a href="https://youtu.be/_N3Sb46AwT0">https://youtu.be/_N3Sb46AwT0</a>

**(3) Invitation Copy**



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## DEPARTMENT OF BIOTECHNOLOGY (SCHOOL OF SCIENCES)



## WEBINAR SERIES ON FERMENTATION TECHNOLOGY

DATE : 13<sup>th</sup> – 16<sup>th</sup> July, 2020

**FREE REGISTRATION**

Google link for all the sessions: [meet.google.com/qrr-brdh-cdf](https://meet.google.com/qrr-brdh-cdf)

For Further Enquiries, Mobile : 9380284500

Email: [biotechshift2.hod@gurunanakcollege.edu.in](mailto:biotechshift2.hod@gurunanakcollege.edu.in)



**PATRON**

**Dr. M. G. RAGUNATHAN**

**PRINCIPAL**

**CHIEF PATRON**

**SARDAR MANJIT SINGH NAYAR**

**GENERAL SECRETARY & CORRESPONDENT**



## WEBINAR SCHEDULE

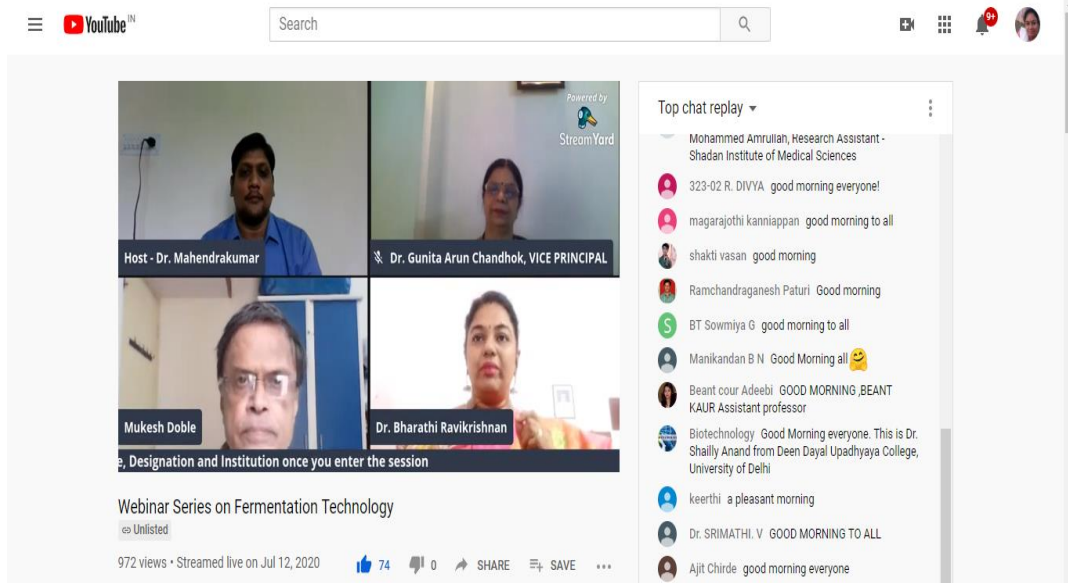
Date	Session & Time	Resource Persons	Organization	Topic
13.07.2020	Session-I 11.00 a.m. to 12.30 p.m.	 Prof. Doble Mukesk	Professor, M. Tech, Process control (IIT Madras); B. Tech, Chemical engineering (IIT Madras)	<b>Need for fermentation technology</b>
	Session-II 3.00 p.m. to 4.30 p.m.	 Dr. B. Samuel Jacob	Assistant Professor (O.G), Dept of Biotechnology, School of Bioengineering, Kattankulathur campus, SRMIST.	<b>Up-stream process in a Fermentation Industry and its Innovation</b>
14.07.2020	Session-III 11.30 a.m. to 1.00 p.m.	 Dr. Veenagayathri	Assistant Professor, Biotechnology Department, Stella Maris College	<b>Media formulation for lab to industrial scale</b>
	Session-IV 3.00 p.m. to 4.30 p.m.	 Dr. Bharathi Ravikrishnan	Assistant Professor and Head, Department of Biotechnology, Guru Nanak College.	<b>Types of fermenter and their parts</b>
15.07.2020	Session-V 11.30 a.m. to 1.00 p.m.	 Dr. Veenagayathri	Assistant Professor, Biotechnology Department, Stella Maris College	<b>Metabolite production and Mass transfer</b>
	Session-VI 3.00 p.m. to 4.30 p.m.	 Prof. S. Ramalingam	Associate professor, Centre for Biotechnology, Anna University	<b>Different modes of cultivation of microbes</b>
16.07.2020	Session-VI 11.00 a.m. to 12.30 p.m.	 Dr. P. Ganesan	Senior Scientist Dept. of Biochemistry and Biotechnology CSIR-Central Leather Research Institute Adyar, Chennai - 600 020	<b>Downstream process and Product Formulation</b>

(4) Certificate Copy



**(5) Photos**

**Session-I**



**Session-II**



**Webinar Series on Fermentation Technology - Session 2**

806 views · 2 weeks ago

### Session-III



## Webinar on Fermentation Technology - SESSION 3

572 views · 2 weeks ago

### Session-IV



## Webinar Series on Fermentation Technology - SESSION 4

403 views · 2 weeks ago



26



1



Live chat



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## Session-V



### Webinar Series on Fermentation Technology - SESSION V

464 views · 2 weeks ago

## Session-VI



### Webinar Series on Fermentation Technology - SESSION VI

377 views · 2 weeks ago

## Session-VII



### Webinar Series on Fermentation Technology - SESSION VII

515 views · 2 weeks ago

## Valedictory Session:



### Webinar Series on Fermentation Technology - SESSION VII

515 views · 2 weeks ago