

## Report of the webinar on “Polymerization Process” on 15/07/23

Post Graduate Department of Chemistry and IQAC of Sree Narayana College Chengannur organized a webinar on “Polymerization Process” as part of the webinar series “SPECTRUM” on 15/07/23 at 2 pm. Dr. Venu S, Head Department of Chemistry welcomed the participants. Dr. Tharun A Rauf, Assistant Professor, Department of Chemistry, TKM College of Arts and Science delivered a talk on “Polymerization Processes”. He illustrated various methods in polymerization process and corresponding reaction mechanisms with suitable examples. Both undergraduate and post graduate students of the Chemistry Department attended the session and at the end of the webinar students interacted with the resource person regarding some concepts of cationic and anionic polymerisation process. Dr. Smitha Sasidharan, IQAC Coordinator acknowledged the resource person and students at the concluding session.



**Sree Narayana College Chengannur**  
**Alappuzha, Kerala**

Aided college affiliated to the University of Kerala  
(NAAC Accredited with 'B' Grade)

**Webinar Series "SPECTRUM"**

Organized by  
Department of Chemistry and IQAC  
Sree Narayana College, Chengannur

Date & Time : 15/07/2023 @ 2 pm  
Platform : Google meet  
Topic : Polymerization Processes

**Resource Person**

  
Lt. Dr. Tharun A. Rauf  
Assistant Professor  
Department of Chemistry  
TKM College of Arts and Science Kollam



**Brochure of the webinar**

← qur-tjwp-xtz ▶ 🔁 🔊

Termination

The chain reaction is terminated when the carbanion reacts with traces of water in the solvent in which the reaction is run.

$$\text{CH}_3\text{CH}_2(\text{CH}_2\text{CH}_x\text{CH}_2\text{CH}_2\text{CH})_n\text{CH}_2\text{CH}_2^- + \text{H}_2\text{O} \longrightarrow \text{CH}_3\text{CH}_2(\text{CH}_2\text{CH}_x\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2)_n\text{CH}_2\text{CH}_2 + \text{OH}^-$$

Tharun is presenting

Tharun meen... ABHI... You Anjana An19 others

📞 📵 🔇 🖱️ ⋮

☰ ○ <

← qur-tjwp-xtz ▶ 🔁 🔊

Anionic Polymerization

Addition polymers can also be made by chain reactions that proceed through intermediates that carry either a negative or positive charge.

When the chain reaction is initiated and carried by negatively charged intermediates, the reaction is known as **anionic polymerization**.

Like free-radical polymerizations, these chain reactions take place via chain-initiation, chain-propagation, and chain-termination steps.

The reaction is initiated by a Grignard reagent or alkyllithium reagent, which can be thought of a source of a negatively charged  $\text{CH}_2^-$  or  $\text{CH}_2\text{CH}_2^-$  ion.

Tharun is presenting

Tharun meen... ABHI... You Anjana A 20 others

📞 📵 🔇 🖱️ ⋮

☰ ○ <

**Dr. Tharun A Rauf is presenting during the webinar**