SURENDRANATH EVENING COLLEGE

[Established in 1961]

Affiliated to the University of Calcutta

24/2, MAHATMA GANDHI ROAD, KOLKATA - 700 009

Phone : 033 2985-9011, E-mail : snevening@ymail.com

Website : www.surendranatheveningcollege.com

(NAAC Re-accredited in 2016)

Ref. No. :.....

Date :.....

NOTICE

Date: 16.10.2023

An Add-On/Certificate Course on "***Overview of Polymer Science***" will be organized by the Department of Chemistry in association with the IQAC, Surendranath Evening College in offline mode only, on and from 22.11.2023.

Those who are interested to join the course are requested to collect the registration forms from the Department of Chemistry and do their registration as early as possible.

Prerequisites: Passed H.S. or equivalent examination with science background in +2 Level.

S. Hansda, 16.10.2023

Smt. Sili Hansda

HOD, Dept. of Chemistry

16.10.2023

Dr. Jafor Ali Akhan

Principal, SNEC

Principal
Surendranath Evening College
Kolkata - 700 009

SURENDRANATH EVENING COLLEGE

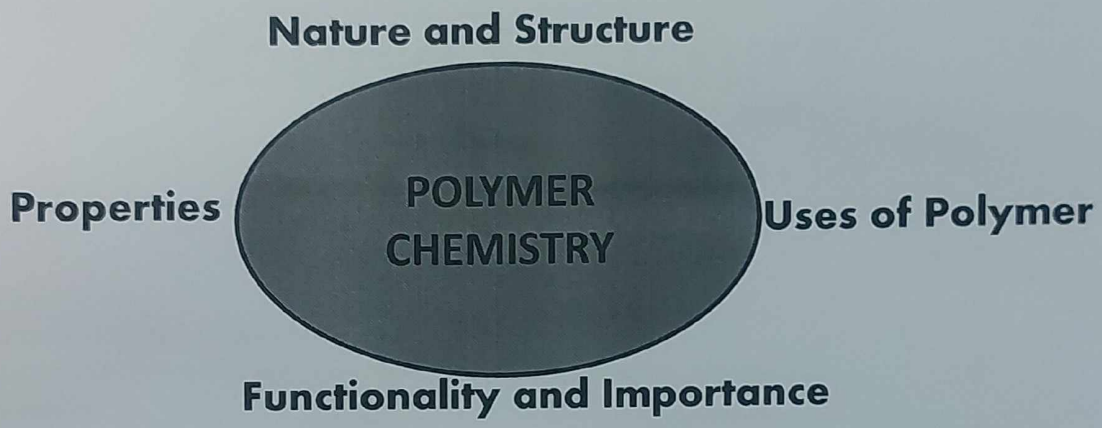
32 HOURSE ADD-ON/ CERTIFICATE COURSE ON

Overview of Polymer Science

Organized by
Department of Chemistry
In Collaboration with IQAC

Date: 22.11.2023
Time: 3.30 pm-4.30pm
Total: 32 Hours Theoretical: 30 Hours, Hands on: 2 Hrs
Venue: Chemistry Gallery

Principal
Surendranath Evening College
Kolkata - 700 009



OBJECTIVES

Department of Chemistry, Surendranath Evening College offer a 32 hours Add-on/ certificate course to impart the skills in advanced Chemistry among the students, pursuing undergraduate course in the college.

Eligibility: All the undergraduate students from Science Stream of this college

•COURSE OUTCOME

- Students will learn about scientific methods and develop skills for thinking and reasoning
- correlation with daily life
- understanding theory and application of chemistry
- development of skills for industry and professional life
- job opportunities

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Add-On/Certificate Course on **Overview of Polymer Science**

By Department of Chemistry

Course Structure

Sl No.	Topic Name	No. of lectures	Speaker
1	**Introduction and history of Polymeric materials:** Classification of polymers, Polymer nomenclature, Molecular forces and chemical bonding, texture	4	Tapas Kr. Paira
2	**Functionality and its importance:** Criteria for synthetic Polymers formation, Classification of polymerization process, Relationship between functionality, extent of reaction and degree of polymerization, Bi-functional systems, poly-functional systems.	8	Averi Guha
3	**Nature and Structure of Polymers:** Structure property relationship	4	Manabendra Saha
4	**Properties of Polymer:** Brief introduction to preparation, structure, properties and application of polymers of polyolefins, polystyrene, poly(vinyl chloride and poly(vinyl acetate)	8	Debarati Roy
5	**Use of some polymers**	6	Sili Hansda
6	**Radical polymerization of Methyl Methacrylate(MMA)**	2	Tapas Kr Paira

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24/2, MAHATMA GANDHI ROAD, KOLKATA, WEST BENGAL 700009

CERTIFICATE OF PARTICIPATION

This is to certify that Souhardyo Mitra

has successfully completed the Add-On Course entitled:

OVERVIEW OF POLYMER SCIENCE

From 22.11.2023 To 06.01.2024

Organized By Department of Chemistry in Association with IQAC,
Surendranath Evening College

S. Hansda
Smt. Sili Hansda
HOD, Dept. of Chemistry

Debasis Manna
Dr. Debasis Manna
IQAC Coordinator
IQAC Coordinator
Surendranath Evening College
Kolkata-9

Dr. Jafor Ali Akhan
Principal

Attendance of Add-On Course for Session 2023 – 2024

N

SURENDRANATH EVENING COLLEGE

STUDENT'S ATTENDANCE REGISTER OF CLASS ..... SEC .....

Subject Add-on Course

Session :- 2023 - 2024

Attendance for the Month of Nov. Dec. 2023

Roll No.	Name of Student	Initial of Teacher	AG	SH	MS	TKP	AG	AG	SH	DR	MS	AG	DR	AG	DR	SH	MS	TKP	DR	AG	DR	SH	TKP	TKP	DR	AG	TKP	DR	SH	MS	AG	SH	DR	MS AG SH
		Date	22/11	23/11	24/11	25/11	28/11	29/11	30/11	01/12	02/12	04/12	05/12	06/12	07/12	08/12	09/12	11/12	12/12	13/12	14/12	15/12	16/12	18/12	19/12	20/12	21/12	22/12	23/12	01/01	03/01	04/01	05/01	06/01
1.	Vishvajeet Kumar Sah		1	2	3	4	5	6	7	8	9	10	11	12	·	13	14	15	16	17	·	18	19	20	21	22	23	24	25	26	·	27	28	29
2.	Mainak Das		1	2	3	4	5	6	·	7	8	·	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	·	24	25	26	·	27	28	
3.	Ayan Halder		1	2	3	·	4	5	6	7	8	9	10	11	12	13	14	·	15	16	17	18	19	20	21	·	22	23	24	25	26	27	28	29	
4.	Rishabh Burman		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	·	26	27	28	·	29	30	
5.	Sachin Kumar Sharma		1	2	3	4	5	6	7	8	9	10	11	12	13	·	14	15	16	17	18	19	20	21	22	·	23	24	25	26	27	28	29	30	
6.	Souhardyo Mitra		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	·	20	21	22	23	24	25	26	·	27	28	29	30	
7.	Md. Arafat Alam.		1	2	·	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
8.	Nilanjana Paul.		1	2	3	4	5	6	7	8	9	·	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
9.	Atanu Mondol		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	·	26	27	28	29	31	32	
10.	Anurag Jaiswal.		1	2	·	3	4	5	6	7	8	9	10	11	·	12	13	14	15	16	17	18	19	20	21	22	·	23	24	25	26	27	28	33	

EVENING COLLEGE

OF CLASS ..... SEC .....

Session :- 201 - 20

of ..... Jan. 20 24

SURENDRANATH EVENING COLLEGE

Registration Form for Add-On Course

Name of the Course: Overview of Polymer

Name of the Student: Nilanjana Paul.

College Id: SNEC230870

Mobile Number: 7439844788

Course (B.A./B.Sc./B.COM.): B.Sc

Course Type (Hons./General): General.

Department Name (If applicable): _____

Semester: 3rd

Date: 22.11.23.

Nilanjana Paul.
Signature of the Candidate

Surendranath Evening College

Add-on Course: Overview of Polymer

Name of the candidate:
Stream:
Semester:
College ID:

Answer the following questions:

1. The word 'polymer' meant for material made from
(a) Single entity (b) Two entities (c) Multiple entities (d) Any entity

2. One of characteristic properties of polymer material is-
(a) High temperature stability (b) High mechanical strength
(c) High elongation (d) Low hardness

3. Polymers are _____ in nature.
(a) Organic (b) Inorganic (c) Both (a) and (b) (d) None

4. These polymers cannot be recycled:
(a) Thermoplasts (b) Thermosets (c) Elastomers (d) All polymers

5. Which polymer is produced by addition polymerization
(a) Bakelite (b) Terylene (c) Polyethylene (d) All polymers

6. Which of the following is a condensation polymerization-
(a) Nylon 6,6 (b) Polyethylene (c) Teflon (d) All polymers

7. In switch board which polymer is used-
(a) Resin (b) Bakelite (c) Teflon (d) All of the above

8. Which material is used for the vulcanization of rubber-
(a) sulphur (b) phosphorus (c) iodine (d) nitrogen

9. Which of the following the strongest natural fibre?
(a) Wool (b) silk (c) cotton (d) jute

10. Which one is the biodegradable polymer
(a) polyethylene (b) bakelite (c) polycaprolactone (d) teflon

11. Which of the following statements is not true about low density polythene?
(a) Tough (b) Hard (c) Poor conductor of electricity (d) Highly branched structure

12. Nylon threads are made of
(a)polyester polymer (b)polyamide polymer (c)polyethylene polymer (d)polyvinyl polymer

13. In addition polymer, monomer used is
(a)unsaturated compounds (b)saturated compounds (c)bifunctional saturated compounds
(d)trifunctional saturated compounds

14. Which of the following does not undergo additional polymerization?
(a)vinyl chloride (b)butadiene (c)styrene (d)all of the above undergoes addition polymerizations

15. Polymers are not classified on the basis of which of the following?
a) Source b) Number of monomers c) Method of preparation d) Structure

16. Plexiglass is a polymer of-
(a) Methyl methacrylate (b)Methyl acrylate (c) Acrylonitrile (d) Ethylene glycol

17. An example of biopolymer is
(a) DNA (b) Terylene (c) Polyethylene (d) All polymers

18. catalyst used in manufacture of polythene by Ziegler-method is
(a) Titanium tetrachloride & triphenyl aluminum
(b) titanium tetrachloride & triethyl aluminium
(c) titanium dioxide
(d) titanium isopropoxide

19. The simple molecules from which a polymer is made are called
(a) Monomers (b) Metamers (c) Rotamers (d) Enantiomers

20. Monomer for Nylon - 66 is
(a) Adipic acid (b) $(CH_2)_6$ $(NH_2)_2$ (c) Both a and b (d) Hexamethylene diammonium adipate