DEPT. OF POLYMER CHEMISTRY

PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES

(2019 ADMISSION ONWARDS)

PROGRAMME OUTCOMES (PO)	**PO 1.Critical Thinking:** 1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions. 1.2. 1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions. 1.3. 1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives. **PO 2.Effective Citizenship:** 2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic. 2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations. 2.3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society. **PO 3.Effective Communication:** 3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language 3.2. Learn to articulate, analyse, synthesise, and evaluate ideas and situations in a well-informed manner. 3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking. **PO 4.Interdisciplinarity:** 4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind. 4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines. 4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

PROGRAMME SPECIFIC OUTCOMES (PSOS)	After successful completion of three year degree program in Polymer Chemistry a student should be able to; **PSO 1** Understand the basic concepts, preparation methods and processing techniques of polymers and its importance in the present society. **PSO 2** Demonstrate procedural knowledge about polymers that affects different areas of life like communication, nutrition, clothing, recording history, buildings and highways etc.; **PSO 3** Employ critical thinking and the scientific method to design, carry out, record and analyze the production of polymers. **PSO 4** Use chemical techniques relevant to academia and industry, generic skills and global competencies, including knowledge and skills that enable students to undertake further studies in the field of polymer chemistry or a related field, and work in the chemical and non-chemical industry sectors. **PSO 5** Undertake hands on lab work and practical activities which develop problem solving abilities required for successful career in pharmaceuticals, chemical industry, teaching, research, environmental monitoring, product quality, consumer goods industry, food products, cosmetics industry, etc. **PSO 6** Understand safety of chemicals, transfer and measurement of chemical, preparation of solutions, and find out the green route for polymer synthesis for sustainable development. **PSO 7** Create an awareness of the impact of polymers on the environment, society, and development outside the scientific community.

DEPT. OF POLYMER CHEMISTRY

PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES

(2014 ADMISSION ONWARDS)

PROGRAMME OUTCOMES (PO)	**PO 1. National integrity:** a. To respect the republic of the nation via participating in programs of nation building and inculcate the values of socialism, secularism and democracy of the country. b. To nurture the attitudes of gender equality, environmental and social awareness practices and to understand as well as resist various kinds of marginalization and discriminations in the society. **PO 2. Critical Thinking:** a. Acquire and apply the basic principles of science to thoughts, actions and interpretations. b. Address self-critical thinking and also the ability to view positions, problems among diversity. **PO 3. Interdisciplinarity:** a. Understand interdisciplinary concern of all disciplines, with regard to environmental contexts and sustainable development. b. Propagate the aspirants of aesthetic, humanistic, artistic and social sensibilities for problem solving and evolving a comprehensive perspective. **PO 4. Communication Skill :** a. Achieve effective communication skills such as speaking, writing, reading and listening clearly in both person and through electronic media. b. Learn to articulate, analysis, synthesize, and evaluate ideas and situations in a well-informed manner in both English and in one Modern Indian Language.
PROGRAMME SPECIFIC OUTCOME(PSO)	**PSO 1** Understand the basic principles, preparation methods and processing techniques of polymers. **PSO 2** To apply generic knowledge, skills and global competencies that enable students to undertake further studies in the field of polymer chemistry or a related field. **PSO 3.** Create an awareness of the impact of polymers on the environment, society, and development outside the scientific community.

	PSO 4. Inculcate the procedural knowledge about the synthesis of polymers in different areas like clothing, communication, media recording, nutrition, highways etc. **PSO 5** Acquire comprehensive idea about the safety of chemicals and their measurements for the preparation of solutions and understand a green route for polymer synthesis. **PSO 6** Develop the skills in lab work and practical activities, which lead to problem solving abilities, required for successful career in pharmaceuticals, teaching, environmental monitoring, cosmetics industry, research, food products, consumer goods industry etc.