

**PROGRAMME OUTCOMES OF UNDERGRADUATE PROGRAMMES OF DEPARTMENT OF
CHEMICAL ENGINEERING AND TECHNOLOGY, BIRLA INSTITUTE OF TECHNOLOGY MESRA:**

The Department of Chemical Engineering and Technology at Birla Institute of Technology Mesra, Ranchi offering BE(Chemical Engineering) and BE (Chemical Engineering –Plastic and Polymer) Under Graduate Programme seeks to achieve the following outcomes in all its Graduates:

- (a) an ability to apply knowledge of mathematics, science, and engineering,**
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data,**
- (c) an ability to design a system, component, or process to meet the desired needs within realistic constraints, such as, economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability,**
- (d) an ability to function in multidisciplinary teams,**
- (e) an ability to identify, formulate, and solve engineering problems,**
- (f) an understanding of professional and ethical responsibility,**
- (g) an ability to communicate effectively,**
- (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context,**
- (i) a recognition of the need for and an ability to engage in life-long learning,**
- (j) a knowledge of contemporary issues, and**
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.**
- (l) an ability to work in industrial position**