J. B. INSTITUTE OF ENGINEERING AND TECHNOLOGY
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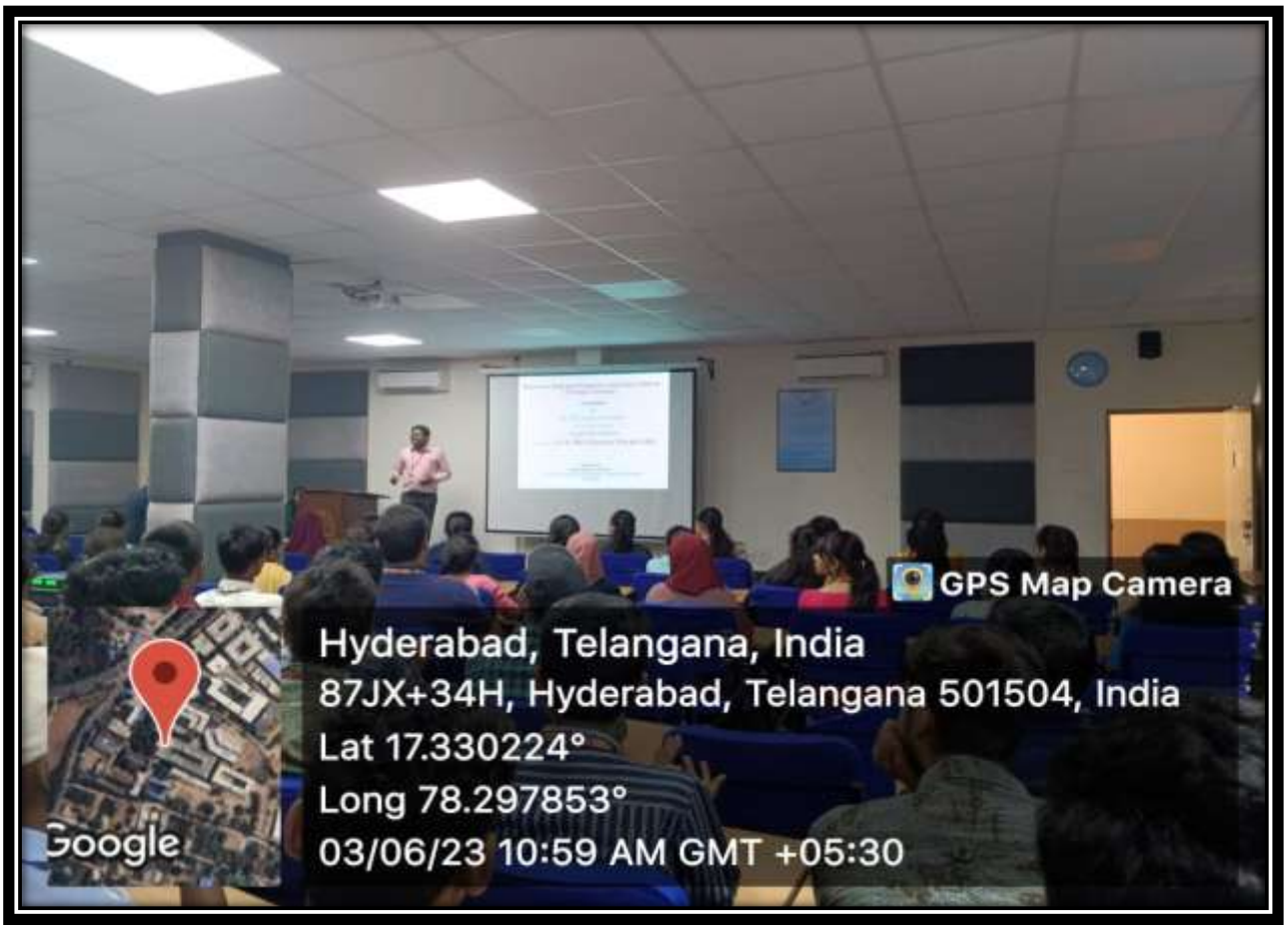
One Day National Seminar
on
CHEMISTRY FOR SUSTAINABLE DEVELOPMENT

03 June 2023

J. B. Institute of Engineering and Technology (JBIET) organized one day National Seminar on **CHEMISTRY FOR SUSTAINABLE DEVELOPMENT** on **3 June 2023**. The program was organized by the Department of Sciences and Humanities in association with IIIC-JBIET.

The main objectives of sustainable development are to reduce negative impacts on the environment. A sustainable workplace strives to use resources not to impact the environment or employees' health. There are many benefits to promoting a sustainable workplace, including reducing environmental impact, reducing waste, recycling, improving employee health, and creating a more friendly and productive environment.



Dr. G. Saidulu, the convenor of the event

The program began with Dr. G. Saidulu, Associate Professor of Chemistry welcoming all the members of students, faculty and guests. He also briefed about the program importance and its relevance to all the students and members of faculty.

And then Mrs. K. Vinetha, Assistant Professor of Chemistry, welcomed Dr. M. Ashwani Kumar, Associate Scientist, GVK Biosciences; she also read out the profile of the guest and handed over the session to Dr. Ashwani Kumar.

Mrs. K. Vinetha, Assistant Professor of Chemistry

Dr. M. Ashwani Kumar, Associate Scientist, GVK Biosciences, took over the session and explained about the importance of renewable resources, effect of fossil fuels on environment and alternative energy sources. He started explaining about the production of biodiesel and the byproduct (Glycerol) that is formed during transisterification process.

Dr. M. Ashwani Kumar, Associate Scientist, GVK Biosciences

He explained the disadvantages of the bi-product glycerol and how various value added chemicals can be synthesized from glycerol. In biodiesel industry glycerol is waste material; he explained very nicely how the waste can be converted into useful chemicals and fuels (energy sources). He also interacted with the students and faculty and cleared their doubts.

The next session was started by Mrs. P. Prasanna, introducing the guest Dr. M. Venkata Narayana, Associate Professor of Chemistry, GITAM University.

Mrs. P. Prasanna, Assistant Professor of Chemistry

Dr. M. Venkata Narayana, Associate Professor of chemistry, GITAM University took over the session and continued explaining about the importance of biodegradable polymers.

Dr. M. Venkata Narayana, Associate Professor, GITAM University

He said, in addition to medicine, biodegradable polymers are often used to reduce the volume of waste in packaging materials.

He also explained about the applications of Biodegradable polymers which are often used in medical products, including tissue in growth materials, controlled drug release systems, plasma replacements, etc. These are used in agricultural materials such as films and seed coatings. These are also used in fast-food wrappers, personal hygiene products etc.

During interaction with students, he said that there is significant need to replace materials derived from petrochemicals with those that can be made from biodegradable components.

The members of faculty appreciating the guests

Finally, the meeting was end with felicitation of guests followed by vote of thanks by Dr. B. V. Swarnalathamma, Dean-I Year.