



## **SUPPORTING DOCUMENTS**

### **3.2.1**

**INSTITUTION HAS CREATED AN ECOSYSTEM FOR INNOVATIONS AND  
HAS INITIATIVES FOR CREATION AND TRANSFER OF KNOWLEDGE**



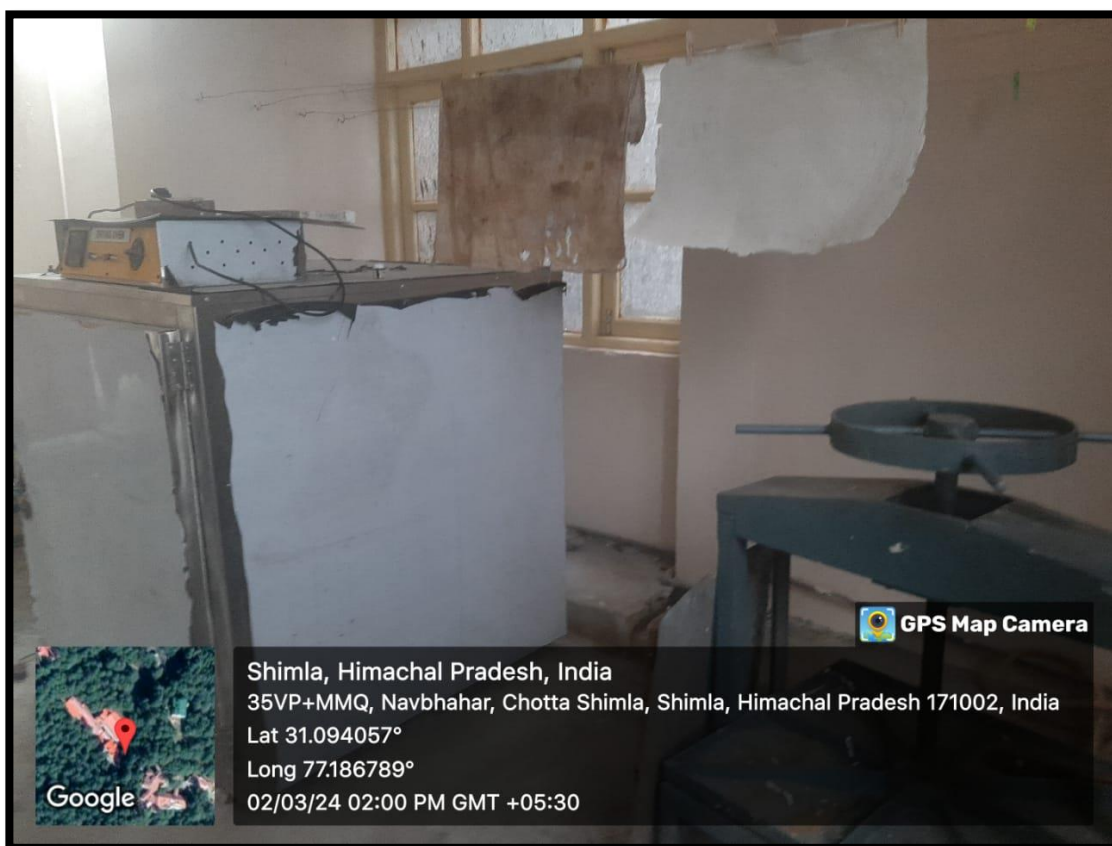
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## WASTE PAPER RECYCLING UNIT

The wastepaper recycling unit established by the college is an innovative initiative that not only promotes sustainability but also enhances community engagement. This unit collects used paper from various sources within the campus, transforming it into high-quality recycled paper. The produced paper is creatively utilized for crafting invitations for all college functions, showcasing the institution's commitment to eco-friendliness. By involving students in the recycling process, the unit provides valuable hands-on experience in environmental stewardship and resource management. Additionally, this initiative fosters awareness about waste reduction and the importance of recycling, reinforcing the college's role as a leader in sustainable practices. Through this project, the college not only reduces its environmental footprint but also instills a sense of pride and responsibility among students as they contribute to a greener future.



*Wastepaper Recycling Machine*



*Faculty Learning Wastepaper Recycling*





*Brochures, Charts and Books Marks made out Recycled paper*





## BIODIESEL PRODUCTION

The college is making significant strides in sustainability by producing biodegradable and nontoxic biodiesel from oil. This innovative initiative highlights the critical importance of renewable energy sources while showcasing the college's commitment to environmental stewardship. By harnessing waste oils to create a clean fuel alternative, the project not only reduces reliance on fossil fuels but also serves as a practical example of circular economy principles, demonstrating how waste can be transformed into valuable resources. The biodiesel production process is designed to be educational, allowing students to gain hands-on experience in sustainable energy practices, from the initial collection of oils to the final refining stages.

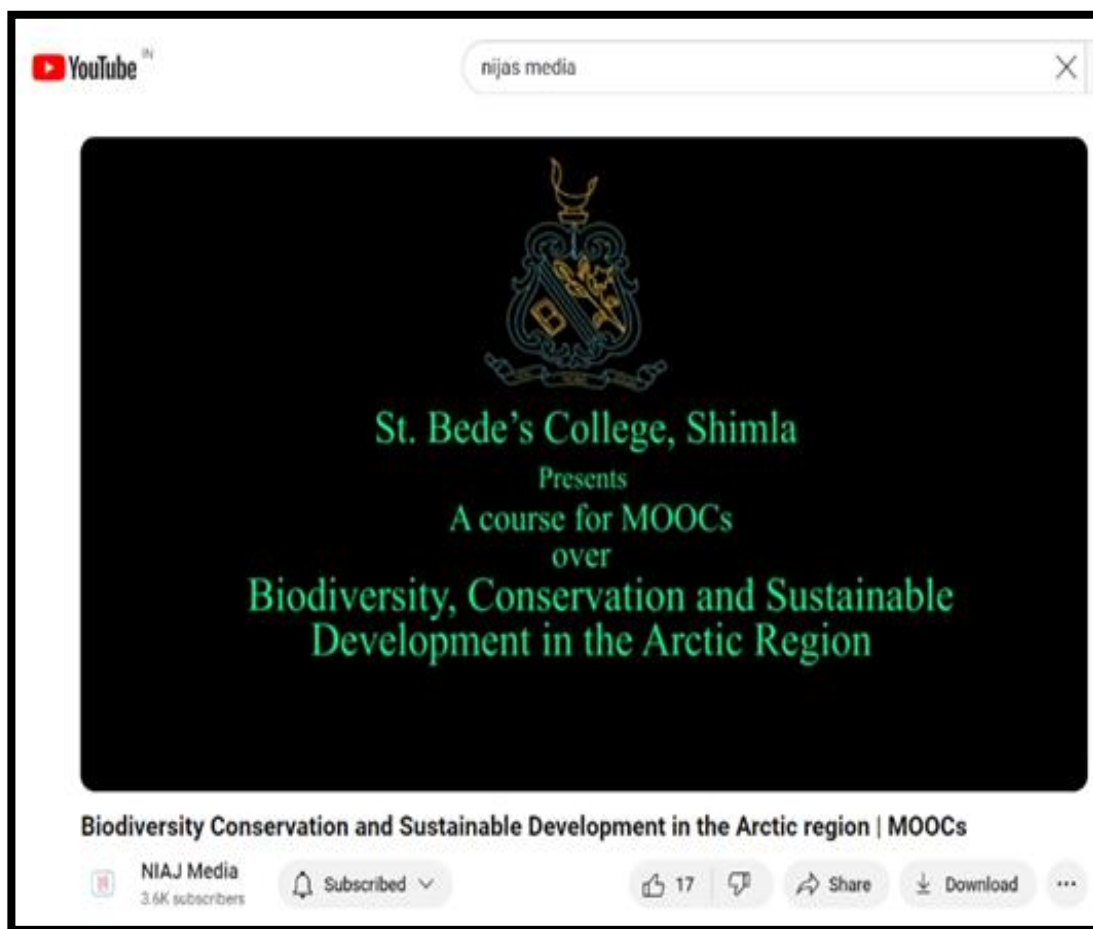


### *Biodiesel Oil Production*



### **YouTube CHANNEL MANAGED BY THE FACULTY**

The YouTube channel run by college faculty is a dynamic platform dedicated to expanding scientific knowledge and fostering curiosity among students and the broader community. Featuring engaging lectures, experiments, and discussions on a wide range of scientific topics, the channel aims to make complex concepts accessible and relatable. Faculty members share their expertise through innovative presentations, interactive demonstrations, and real-world applications of scientific principles, encouraging viewers to think critically and explore further. In addition to regular content, the channel hosts Q&A sessions and collaborations with guest speakers, enriching the learning experience and promoting a vibrant online scientific community. By leveraging digital media, the channel not only enhances classroom learning but also inspires a lifelong passion for science in viewers of all ages.



*Screenshot from the YouTube channel*



YouTube™ nijas media

## INFRARED SPECTROSCOPY

Different types of vibrations:

Bending vibration

- Scissoring
- Rocking
- Wagging
- Twisting

In plane bending vibration

Out of plane bending vibration

Bonds movement like a scissor arms

Scissoring ( $\sim 1450\text{cm}^{-1}$ )

Rocking

Different types of Vibrations in IR Spectroscopy IR Spectroscopy | Lecture 3 | Z1 Tutorials

NIAJ Media 3.6K subscribers

Subscribed

24

Share

Download

Subscribe

*Screenshot from the YouTube Channel*

YouTube™ nijas media

## SOLID STATE

Introduction:

Solids: Rigid, and have definite shape, size and volume

States of matter:

- Solid state
- Liquid state:
- Gaseous state:
- Plasma:
- Bose-Einstein Condensate:

Chapter 1 | Class 12 | Chemistry: Solid State | IIT-JEE | IIT- JAM | NEET | 2020

Subscribe

*Screenshot from the YouTube Channel*

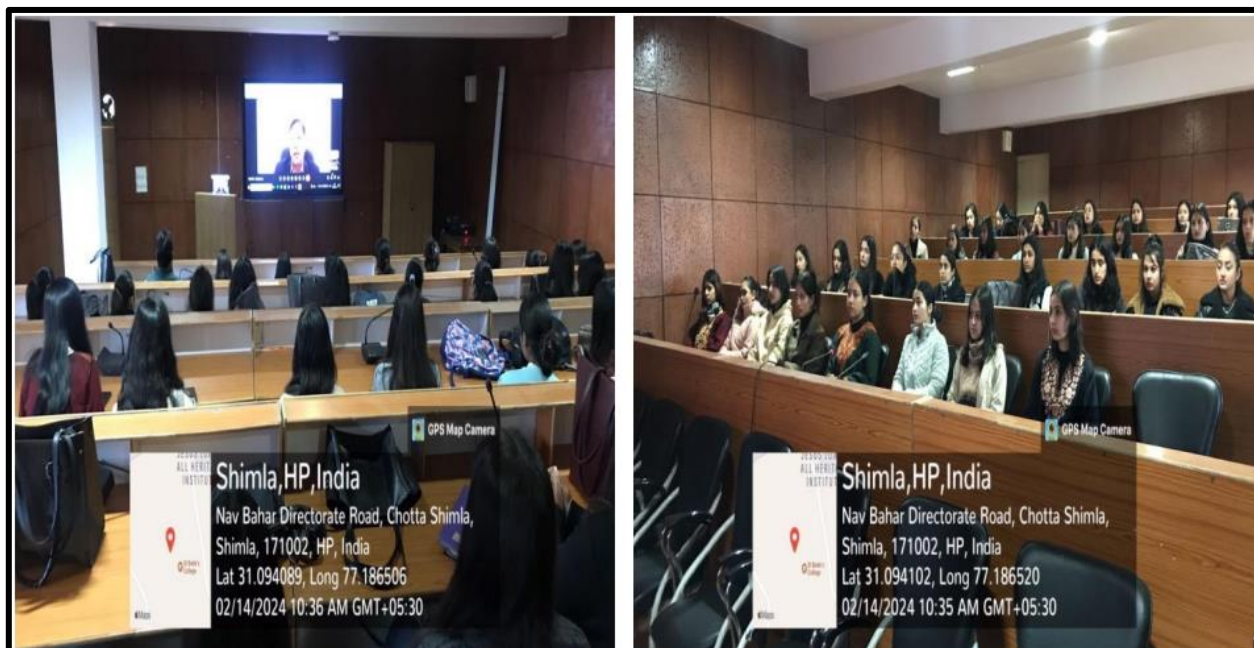




## **AWARENESS SESSION ON WOMEN ENTREPRENEURSHIP**

On February 14, 2024, the Financial Lab and Incubation Centre at St. Bede's College, in collaboration with SkillLabs, organized a dynamic Awareness Session focused on Women Entrepreneurship specifically tailored for students enrolled in B.Com and BBA programs. The session featured Dr. Himesh Sharma, the CEO of SkillLabs, as the keynote speaker. The event was marked by a lively and interactive atmosphere, allowing students to engage directly with the speaker. Dr. Sharma emphasized the critical role that women play in the entrepreneurial landscape and underscored the importance of fostering a culture that encourages more women to step forward as entrepreneurs. He passionately encouraged students to seek out experiences beyond the confines of their academic coursework, suggesting that participation in extracurricular activities and entrepreneurial initiatives can be invaluable for their personal and professional growth.

Throughout the session, Dr. Sharma highlighted the significance of innovation in business, explaining that it often stems from both invention and the effective commercialization of ideas. By exploring various facets of the entrepreneurial journey, students left with a greater appreciation for the challenges and opportunities that come with starting and running a business. Overall, the session was a valuable experience, equipping students with knowledge and motivation as they consider their future paths in the world of entrepreneurship.

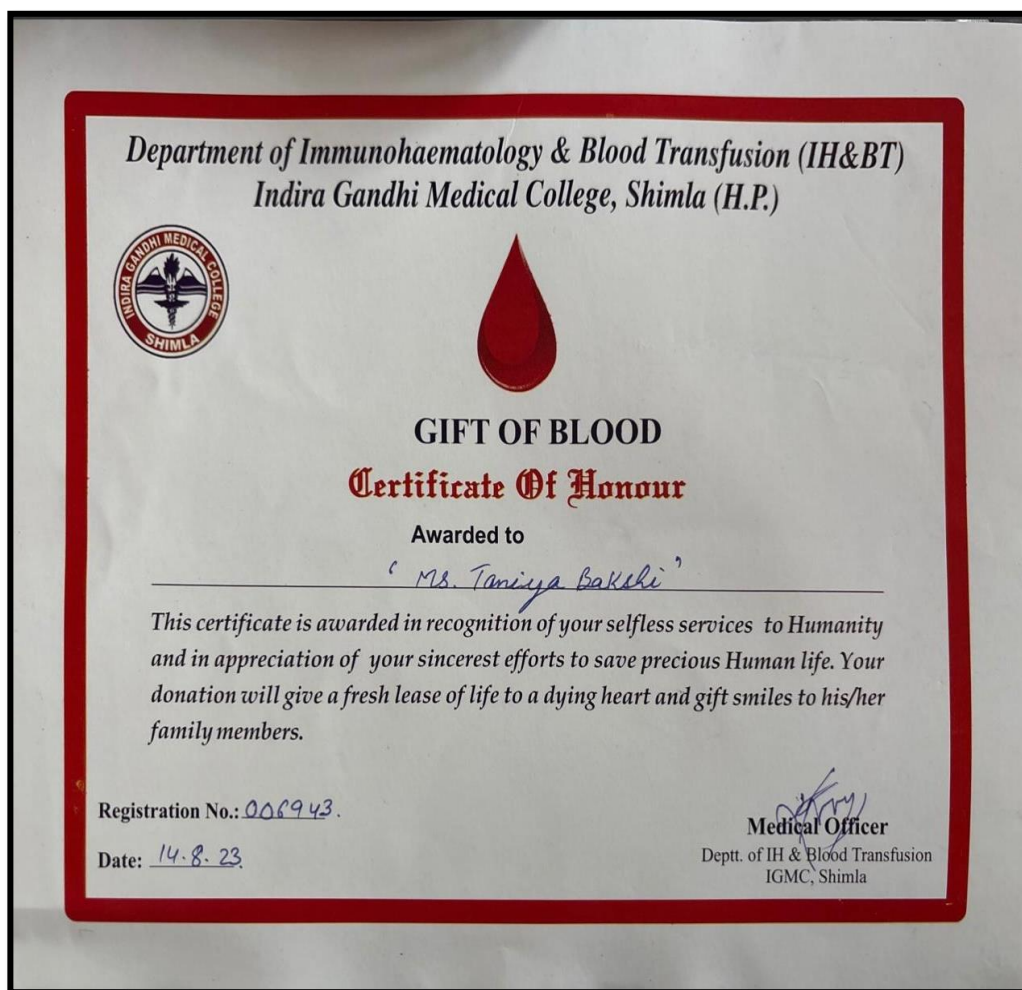


*Awareness Session on Women Entrepreneurship*



## BLOOD BANK

The blood bank maintained by the college which has records of over 60 donors serves as a crucial resource for both students and the surrounding community, facilitating the collection and distribution of blood donations. This initiative not only promotes awareness about the importance of blood donation but also encourages students to engage in lifesaving activities. The college blood bank meticulously records donor information, including blood types and donation history, ensuring that the data is easily accessible for emergency needs. By organizing regular blood donation drives and educational campaigns, the college fosters a culture of philanthropy and health consciousness among students. Moreover, the blood bank collaborates with local hospitals and health organizations to provide timely support during critical situations, emphasizing the college's commitment to community health and wellbeing.

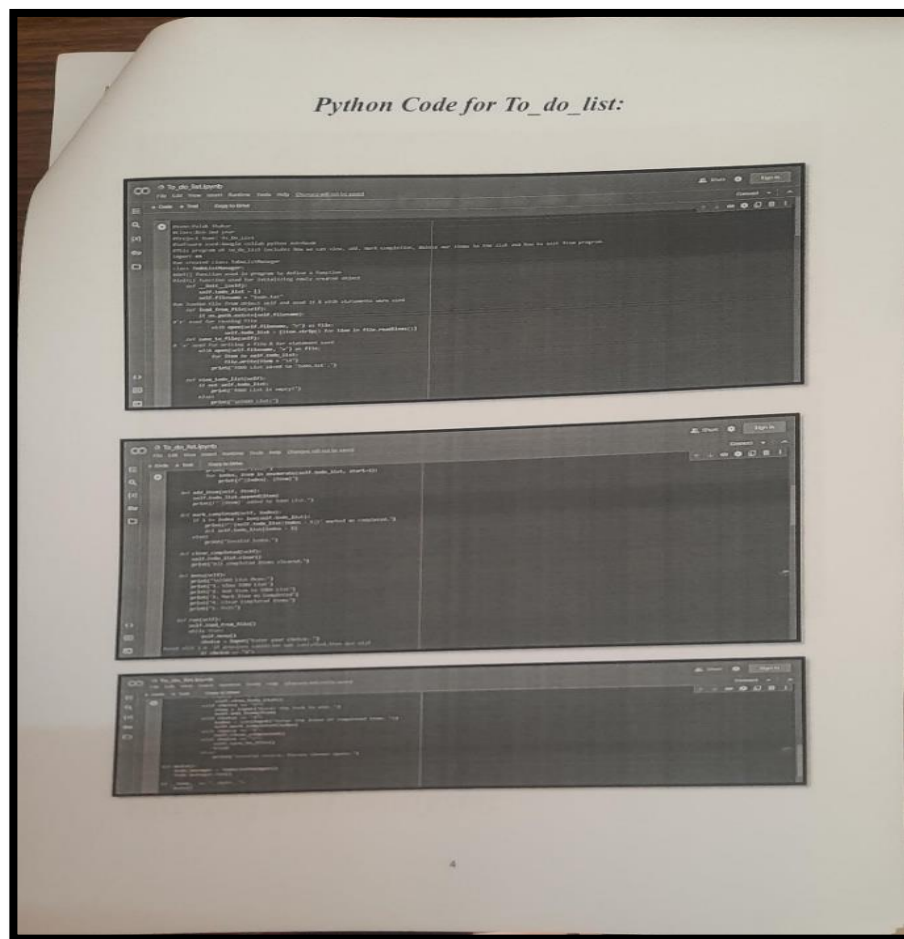


*Certificate of Blood Donation (Sample)*



## WEB DESIGNING AND PYTHON PROGRAMMING

Students who have studied web design and Python programming have also implemented it by creating projects that showcase their skills and creativity. These projects range from dynamic websites featuring user-friendly interfaces to robust applications that leverage Python's powerful capabilities for data processing and automation. By collaborating in teams, students have not only honed their technical abilities but also developed essential soft skills such as communication and teamwork. Their projects often address real-world problems, demonstrating their understanding of user needs and the practical application of their knowledge. These initiatives not only serve as valuable portfolio pieces for the students but also reflect the college's commitment to fostering innovation and practical skills in technology. The culmination of their hard work and dedication is evident in the quality and originality of their creations, inspiring both their peers and the broader community.



*Python Programming Projects*

