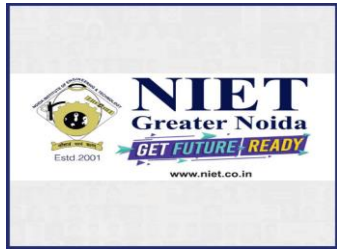


# NEWSLETTER

(2019-2020)

Issue on- July 2020



## NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY

### DEPARTMENT OF BIOTECHNOLOGY

### Message From HOD desk



It is always a pleasure to be a part of a team which strives to bring out the talents of students and staff. Noida Institute of Engineering & Technology has always been striving to keep itself ahead of the competition and the results are now for everyone to see. The essential purpose of a college newsletter is to inform, engage and inspire a diverse readership - including alumni, parents, students, faculty, staff, and other friends of the college - by telling powerful stories that present a compelling, timely and honest portrait of the college and its extended family. This newsletter has made an earnest attempt in this direction and brought out certain aspects of the college to the eyes of the public so that they may understand and know the college even better. I am sure the college will scale even greater heights in the years to come and serve many more millions in the society.

Dr. Rashmi Mishra

### VISION

To become a prime influencer in the field of Biotechnology and provide a vibrant learning environment to the students that will have a transformative impact on the society in terms of academics, research, and entrepreneurship.

### MISSION

**M1:** - To create educational experience targeted on a deep understanding of interdisciplinary sciences & engineering with the focus on development of industry aligned skills.

**M2:** - To expertise in research, innovation and entrepreneurship supporting the overall growth of the biotechnology academia and industry.

**M3:** - To inculcate leadership qualities in students to handle competitive edge, social & ethical challenges for a better world.

### PEO's

**PEO 1:** Students will acquire knowledge and skills in the frontier areas of biotechnology and will be able to solve societal problems individually and in teams.

**PEO 2:** Students will be able to think creatively and ethically about the use of biotechnology to address local and global problems.

**PEO 3:** Students will be able to implement the engineering principles to biological systems for development of industrial applications, as well as entrepreneurship skills to start biotech industry.

### PSO's

**PSO1:** To apply knowledge of basic sciences and biotechnological techniques to modify living organisms.

**PSO2:** To design, optimize, analyse & scale up bioprocesses to develop useful products with societal consideration.

**PSO3:** To generate, analyse & interpret biological data using Insilco & other relevant approaches.

# DEPARTMENTAL HIGHLIGHTS

- Students of B.Tech second and third year from department of biotechnology has shown active participation in Prime Sustainability Carnival conducted on 14<sup>th</sup> – 15<sup>th</sup> February 2020 at IILM college, Greater Noida.



- Students of B.Tech second and third year attended the National Seminar and research fest'20 on “Antimicrobial Therapy: Challenges and Future Trends” conducted by Shaheed Rajguru College of Applied Sciences for Women, Delhi University on 25<sup>th</sup> February 2020.
- Students of second and third year Presented poster in national conference on food safety, nutritional security, and sustainability Shyama prasad Mukherji college for women (University of Delhi) on 6<sup>th</sup> – 7<sup>th</sup> March 2020.
- Students of third year attended five days’ workshop on "essential skills for research writing and publishing" conducted by Bennett University from 15th to 19th June 2020.
- Department of biotechnology hosted a workshop for students on Saturday, 18th April 2020. The topic of session was “Covid-19: Operational planning Guidelines and COVID- 19 Partners Platform to support Preparedness and response”.



- Students of biotechnology department attended webinar conducted by WHO over the standard precautions to be taken in the time of pandemic on 15<sup>th</sup> May 2020.
- Department of biotechnology organized two days International webinar on 24<sup>th</sup> and 25<sup>th</sup> April 2020 through online portal on the topic “Impact of biotechnology on health care system”.
- Department of biotechnology organized a guest lecture on 19<sup>th</sup> February 2020 at NIET, Greater Noida on the topic “Industrial application of biotechnology & bioinformatics with approach to dry lab as well as wet lab” by Dr. Mithlesh Mishra & his team, IBRI, Noida.
- A group of students namely Soni Kumari, Shivansh Verma, Priya Maheshwari and Shikha Singh from B.Tech third year went to present their idea in Technovation Hackathon - 2 smart city conducted by Sharda University on 25<sup>th</sup> – 26<sup>th</sup> January 2020.
- Students of department attended webinar; on job skills to succeed in a post pandemic world conducted by ICT Academy on 25<sup>th</sup> April 2020.
- Students of Department of biotechnology participated in Covid-19 Awareness Program on 27<sup>th</sup> April 2020.
- Students of second and third year participated in International online conference on “Biotechnology: A Way Forward” conducted by Manipal University, Jaipur on 30<sup>th</sup> April 2020.
- Students of department participated in learnathon sponsored by seven partner companies comprising thirteen courses like automation, IOT, MATLAB, network virtualization etc by ICT academy from 1st may to 30 June 2020.
- Students of department attended Webinar on the topic "Covid19 Pandemic demonstrates the power of Biotechnology" conducted by Dr. B Lal institute of biotechnology on 2nd May 2020.
- Webinar attended by students of department on dimensions of plant tissue culture organized by Global University on 4th May 2020.

- Series of webinar conducted by MHRD, IIC on topics like contactless wrist band in the month of May.
- Students of second year participated in an online poetry competition namely kayanjali conducted by Amity University on 11th May 2020.
- Students from second and third year attended SPARC-INDO- US Immunology workshop for two days 13th -14th May 2020 by IIT, Ropar.
- Students of the department attended webinar on the topic "Emissioning the future" conducted by ICT academy on 15th May 2020.
- Department of biotechnology organized a technical event "COVID-19: Poster Making Contest" on 15th May 2020 coordinated by Dr. Ayushi Verma, faculty coordinator of event.
- Students attended webinar conducted by WHO over the standard precautions to be taken in the time of pandemic on 15<sup>th</sup> May 2020.
- Students of department showcased their talent in Tarana music battle online conducted by NIET on 16<sup>th</sup> May 2020.
- Shruti from biotechnology third year participated in inter institutional article writing competition held by IPEM Ghaziabad on 16th May 2020.
- Department of Biotechnology conducted online music event named "Conquer the mic" on 17<sup>th</sup> May 2020 coordinated by Mrs. Shweta Sharma faculty coordinator of the event.
- Students of second year attended an event named "Innovation Idea" conducted by JKK Nataraja College of pharmacy on 23rd May 2020.
- Students from second and third year participated in "Electrifier 2020" conducted by department of electronics and communication, NIET greater Noida and various students achieved position in events like poetry, quiz etc on 25th May 2020.
- Student of third year attended online workshop on "drug discovery and design" conducted by Bansal University on 28th May 2020.
- Students of second year attended five days' workshop on "Microbial Genomics" conducted by pathfinder from 1st - 5th June 2020.

- Few students from second year participated in Pro Yashwant Rao Kelekar Kavita Pratiyogita conducted by Akhil Bhartiya Parishad on 2nd June 2020.
- Students from third year attended workshop on "How to improve Article acceptance and publish quicker" conducted by Emerald publications on 2nd June 2020.
- Shruti third year student of department participated in inter institutional essay writing competition conducted by IPEM Ghaziabad on 6th June 2020.
- Students of second year attended conference on "Current Progress and future of Biotechnology" conducted by Chaitanya Bharti institute of biotechnology, Hyderabad from 8th to 13th June 2020.
- Third year students of the department attended webinar conducted by ICT academy on theme "key to success" on 8th June 2020.
- Students of third year attended one day webinar on "Academic publishing and enhancing Research effectiveness" conducted by Dr. Zakir Husain library, Jamia Milia Islamia on 9th June 2020.
- Students of third year attended five days' workshop on "essential skills for research writing and publishing" conducted by Bennett University from 15th to 19th June 2020.
- Anshika Srivastav, Ambuj, Rashika Rajput, Soni Kumari and Sachin Goel got selected for CSIR online Summer Training 2020 in the month of June.

## ACHIEVEMENTS & PLACEMENTS

- Anshika Srivastav, Ambuj, Rashika Rajput, Soni Kumari and Sachin Goel of B.Tech third year got selected for CSIR online Summer Training 2020 in the month of June.
- Aditi and Siddhi of B.Tech fourth year got placed in tata-consultancy services.
- Anjali, Darpan, Faheem, Shivangi, Sonal, Anushka, Aditi, Abhishek, Prerna, Alisha got placed in Vedantu innovations Pvt. Ltd.
- Astha, Amla and Sakshi got placed in mCURA Mobile Health Pvt.Ltd.
- Aritri got placed in Nestle Pvt. Ltd.
- Pulkita got placed in Infosys Ltd.
- Pooja Chand got placed in Chimera Biotech Pvt. Ltd.



## STUDENT ARTICLES

### RECENT ADVANCEMENT IN EBOLA OUTBREAK: An Overview

Ebola which is also known as Ebola haemorrhagic fever. This first appeared in 1976 in 2 simultaneous outbreaks, one in Narza, south Sudan and the other in yambuku, DRC. The later took place in a village near the Ebola River from where the disease got the name. It is a very rare but fatal illness in humans as per the world health organization. It gets transmitted to people from wild animals and spreads in the human Population through human-to-human interaction. According to the WHO the average EVD case fatality rate is around 50%. The 2014-16 outbreaks in West Africa were the largest Ebola outbreak. It causes severe bleeding, organ failure and can even lead to death in severe conditions. It is thought that the virus is introduced into human population through close contact to the blood, secretions, organs or other bodily fluids of infected animals such as chimpanzees, porcupines or forest antelope's .And then it spreads through human to human interaction via direct contact with blood or body fluids of a person who is sick with or died from this or through the objects that are Contaminated with the body fluids from the sick person with Ebola or died because of the virus.

By: Priya Maheshwari (3<sup>rd</sup> year)

### Depression – An open letter to someone struggling

Depression is different from usual the mood fluctuations and short-lived emotional responses to our everyday life challenges. In some respects, depression in adolescents can be as an early-onset sub form of the equivalent adult disorder because of their strong links with recurrence later in life. Anyone with depression knows, it is much more than any one word can describe. Depression is a common illness worldwide, with more than 264 million people affected. Depression is somehow different from a usual mood fluctuations and short-lived emotional responses to challenges in everyday life. It's a normal reaction to loss or life's struggles. It is a type of intense sadness including feeling helpless, hopeless, and worthless lasts for many days to weeks and keeps you from living your life; it may be something more than sadness. The clinical and diagnostic features of the disorder are broadly to that in adults, and its occurrence is also associated with a family history of the disorder. The chances of depression in children is low (<1% in most studies) with no sex differences, and then rises substantially throughout adolescence. Many factors could explain the recorded post-pubertal rise in prevalence because adolescence is a developmental period characterized by pronounced biological and social changes. The most postulated contributors are puberty and brain and cognitive maturation. They include enhanced social understanding and self-awareness, changes in brain circuits involved in responses to reward and danger, and increased reported stress levels, especially in girls adolescence to as high as 20% by the end of that time. However, population prevalence estimates vary widely across studies (table) and in different countries, possibly because of methodological differences.

By: Sahil Rustagi (3<sup>rd</sup> year)



# BEYOND CLASSROOM

The students of Biotechnology department showcase their talent in the departmental art gallery.



By Ravneet Kaur (2nd year)



By Khushi Shivach (2nd year)



By Divyanshi Singhal (2nd year)

## EDITORIAL BOARD MEMBERS

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