

SYNAPSE CLUB OF DEPARTMENT OF BIOTECHNOLOGY AND BIOINFORMATICS

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

INTRODUCTION

Over the past ten years, the bio fraternity of Jaypee University of Information Technology come together in a mélange of multi-dimensional activities, ranging from hard-core academics to co-curricular activities, cumulatively converging towards the common goal of attaining academic excellence coupled with developing a sound awareness regarding emerging and significantly relevant scientific issues. People from different backgrounds and different mindsets are coming together with just one thing in common: their pursuit of education and excellence.

The **SYNAPSE CLUB OF JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY** is an endeavor by the students and faculty of the Department of biotechnology and bioinformatics. This club is instituted to encourage the students to take part in various Biotechnology and Bioinformatics related events, hands-on-training, field and industry visits, conferences, workshops, seminars, webinars, societal programs and many more. It objectifies to provide all potential students a chance to do something apart from the regular curriculum. The club innovates to go beyond the curriculum and indulge in activities in the exciting world of combinatorial sciences for different biotechnological and bioinformatical products and processes. With an aim of nurturing the skills of students, Department of Biotechnology and Bioinformatics has created a platform for students to develop and exhibit various skills ranging from Technical, arts and cultural to scientific activities, known as "SYNAPSE".

OBJECTIVE

The club aims to build young minds, explore innovative ideas and by mutual cooperation among members of the club and faculty members of the department, abreast with the advancements in the fields of biotechnology and bioinformatics. It also initiates many events and activities to motivate the enthusiasts to pave a path towards their own venture by connecting engineers and biologists as a joint venture. We encourage members to propose events and speakers and participate in the planning process to achieve the utmost goal.

FACULTY CO-ORDINATORS

- Dr. Tiratha Raj Singh, Associate Professor ,Faculty In-charge, Media Relations ,(91)
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- Dr. Hemant Sood, Associate Professor ,Faculty In-charge , (91-1792-239274) ,
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- Dr. Saurabh Bansal (Treasurer), Assistant Professor (SG), (91)01792-239222
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STUDENT CO-ORDINATORS

- **PRESIDENT** - SUGAM SINGH
- **GENERAL SECRETORY** - CHHAVI THAKUR
- **TREASURER** - JIGYASA BATRA
- **EVENT CO-ORDINATOR** - MANOJ KUMAR & NATASHA PANCHAL
- **ARTS AND CULTURAL CO-ORDINATOR** - KHUSHI MAHESHWARI & TANVI KAUSHAL
- **TECHNICAL CO-ORDINATOR** - RAHUL
- **ALUMNI AND OUTREACH** - UTKARSHA SRIVASTAVA & CHINMAYEE PRIYADARSINI

ACTIVITIES OF CLUB

INCIPERE

Synapse Club organized "Incipere"- an event conducted, to welcome the students of first year to the Biotechnology and Bioinformatics family of JUIT. The event commenced with a welcome note and Lamp Lighting by honorable Vice Chancellor Sir, followed by an addressal by Dr. Tiratha Raj Singh, Faculty Coordinator of 'Synapse'. The students were informed about the History of Synapse through which they were introduced to the working of the Club and the events conducted by it in previous years. The Head of the Department BT and BI, Dr. Sudhir Syal then formally welcomed the newbies and spoke at length about how 'Synapse' has always been integral to our Department . Also, A speech was given by the Director of JUIT to motivate students by his words of wisdom. The event was lightened up by various cultural activities organised by synapse team like classical dance performance , melodious poem was being recited and a scientific quiz was also conducted. A soulful group song performance by the M.Sc students that enthralled the audience. Many students were felicitated for their outstanding

achievements in various activities organised by the university. Vote of Thanks was given by Srajit, the former president of Synapse Club who explained in essence what it means to be a member of the Club. The event was illuminated by a full get up and go kinda group dance performance by the students of our department following by the closing note given by our another Faculty Coordinator, Dr. Hemant Sood who introduced the new team of synapse to the audience followed by 'High Tea' after which all the students and faculty interacted with each other.

CIDERING

A fortnight long competition of producing alcoholic beverage i.e. Wine was one of the biggest and most celebrated event organised by SYNAPSE. Out of many teams who showed their interest in the cidering, only few people come out to be luckiest person based on their intellects, who finally got a chance to cider. The wine produced was tasted by Sommelier and the best out of it was awarded.

BIOMODELLING

Inquisitiveness galored through the halls of JUIT, students displayed their Bio-models at the Biomodelling contest organized by Synapse club in the previous years . The participating teams were given a span of 1 month to create their bio based models and displayed an amalgam of creativity and unconventional thinking. The teams were judged on presentation skills, concept, technicality, aesthetic appeal, application of inter-branch knowledge and creativity. Winners were awarded with certificates and discount coupons, with this the exuberant and enlightening competition reached its conclusion.

VOICE FOR BT

The "Voice for BT", a public speaking contest was organized jointly by the Novozymes and Association of Biotechnology Led Enterprises (ABLE), India tow times during . All UG/PG students and faculty of the Department of Biotechnology & Bioinformatics, Jaypee University of Information Technology, Waknaghat attended the event. Young and confident final year Biotech students from various institutes of North India gathered to articulate the key role Biotechnology has in solving some of the most challenging problems that the nation and the world is facing in the recent times.

CAREER EVENTS

Synapse help the students to know about the career events in the field of biotechnology and bioinformatics. Students get an update about the current positions in industry/academia, scholarships, and details about the competitive examinations. Synapse tries to strengthen its linkage with their alumni to create better opportunities.

EXPERT LECTURES

Synapse invites the speakers from universities and industries of repute for expert lectures. This activity helps our students to update their knowledge in various fields of biotechnology and bioinformatics. This also strengthens our linkage with the various organizations.

CONFERENCE - International Conference on Recent Trends in Biotechnology and Bioinformatics (ICBAB) 2019

We gratefully thank all our wonderful Speakers, Conference Attendees, Students, Media Partners, Associations and Exhibitors for making International Conference (ICBAB 2019) a grand success. The 1st International Conference on "Recent Trends in Biotechnology and Bioinformatics", hosted by the Department of Biotechnology and Bioinformatics was held during August 01-03, 2019 at Jaypee University of Information Technology (JUIT), Wanknaghat-Solan. The conference was based on the theme "Widespread Applications and Advancements in Biotechnology and Bioinformatics". Benevolent response and active participation were received from scientists, researchers, students and leaders from various fields of Biotechnology & Bioinformatics along with the organizing committee members, who made this event a grand success. Conference organizing committee expresses its gratitude to keynotes speakers and session chairs for taking up the responsibility to deliver knowledge contents and to coordinate during various sessions of ICBAB-2019. We are indebted to their consistent support throughout the event.

The conference received huge response from researchers and students of India (Delhi, Noida, Kolkata, Chennai, Jaipur, Shimla, Solan, Jalandhar, Chandigarh, Prayagraj, Ahmedabad, etc) and abroad (USA, Morocco, Israel, Malaysia, and South Korea). After the review process, 51 abstracts were selected for oral presentation and 110 abstract for an interactive poster presentation. Overall 180 delegates which includes scientists, faculty members, scholars and students, participated in this conference and all the attendees characterized the conference as very useful and targeting the right impediments to enhancing diversity in the scientific area. They were very satisfied with the conference speakers, the topics discussed, and overall contents of the ICBAB. Attendees also reported increased awareness, knowledge gain, collaboration and implementation of ideas in enhancing diversity as a result of the conference and praised the organizing committee for this wonderful initiative taken in the right direction to

promote and support science and engineering. SYNAPSE student members were workhorses behind the grand success of ICBAB.

OUTREACH (INDUSTRIAL VISITS)-

To impart industrial exposure to the students, visits are organized to industries. This helps the students to see the practical perspective of theoretical knowledge being imparted in various subjects. We consider it a way of teaching and to provide an interface between educational and industrial fronts.

1. "Outreach" program organized an industrial trip for fifty six first years accompanied by The visit was to Minchys, situated in Sadhupul, Himachal Pradesh. They were briefed up the introduction about the industry and as well as the number of production lines. Minchys has a wide array of products, ranging from the thirst quenching fruit juices to pickles, from squashes and crushes to jams and wines. The unit also comprises of testing lab for ensuring the quality and taste of the final products up to the standards. The students were mentioned about the entire activities happening in plants like washing and making of bottles, filling, capping, labeling, filtration, sterilization and packaging. The students also learned how an automated industry function with all stringent hygienic conditions maintained and using traditional techniques. The visit was an enriching experience for students in getting live exposure of manufacturing which can help them in internships and further career enhancements.

2. The department have organised a visit to Central Research Institute, Kasauli, Main campus for the BI-BT students . CRI is pioneer in the field of vaccines not only in India but at the global level. . Students were given an enormous exposure to various microbiology and immunobiological aspects.

3. JUIT also organize a visit to CSIR, Palampur for the 3rd Year students to discover, develop and learn about the processes and products from Himalayan bioresources using cutting edge science and technology.

WEBINAR

Most impossible goals can be met simply by breaking them down into bite size chunks, writing them down, believing them and going full speed ahead as if they were routine. " Don Lancaster".

We couldn't wait to share the good news: JUIT WAKNAGHAT has completed SYNAPSE WEBINAR SERIES. The event is based on guidelines regarding: Higher education and disciplines, Entrance examinations and placements. In this heavy phase of our lives due to the pandemic Covid-19 we are here for you all. Attendees got to network with the offered key strategies and hand on introduction to basic guidelines which will necessary for the youth especially to mark up their ways to achieve their goals. This very webinar was inspiring, innovative and the discussions were held by our own esteemed alumni's on the most relevant and daunting challenges we face regarding the future.

Our ALUMNI SPEAKERS for the webinar :

- 1) SEHAJ SINGH GULATI – M.TECH IN PHARMACEUTICAL BIOTECHNOLOGY FROM INSTITUTE OF CHEMICAL TECHNOLOGY, MUMBAI
- 2) MANSI ARORA – MASTER OF SCIENCE IN EXPERIMENTAL MEDICINE(thesis) WITH SPECIALISATION IN BIOINFORMATICS, FROM MCGILL UNIVERSITY, MONTREAL CANADA
- 3) SUSHAIN KAUL – MASTERS IN BIOMEDICAL ENGINEERING AT THE UNIVERSITY OF FLORIDA, GAINESVILLE, USA.
- 4) SAHIL SETHI – 2nd year OF PHD PROGRAM in BIOMEDICAL INFORMATICS AT UNIVERSITY OF NEBRASKA MEDICAL CENTER WITH A CERTIFICATION IN PUBLIC HEALTH
- 5) GAURAV BHATT - IIT Guwahati Ph.D programme in the Department of Biosciences and Bioengineering where he receives scholarship from MHRD. He is currently in his 4th year of research and holds the position of Department Student Representative. He is currently working at Applied Biodiversity and Molecular Endocrinology lab where he is investigating the therapeutic potential of some of the natural plant based compounds.

BENEFITS OF THE WEBINAR

- 1) Attendees get to network with the offered key strategies and hand on introduction to basic guidelines which will necessary for the youth especially to mark up their ways to achieve their goals.
- 2) Provided Ideas to plan the entire Time line of getting the admission in esteemed universities .
- 3) Creating Awareness about the requirements to reach the eligibility criteria and Qualifying examinations.
- 4) Spreading Knowledge of finances and scholarships .

5) e-certificates will be issued at the end of series to all the participants

SOCIAL MEDIA PAGES

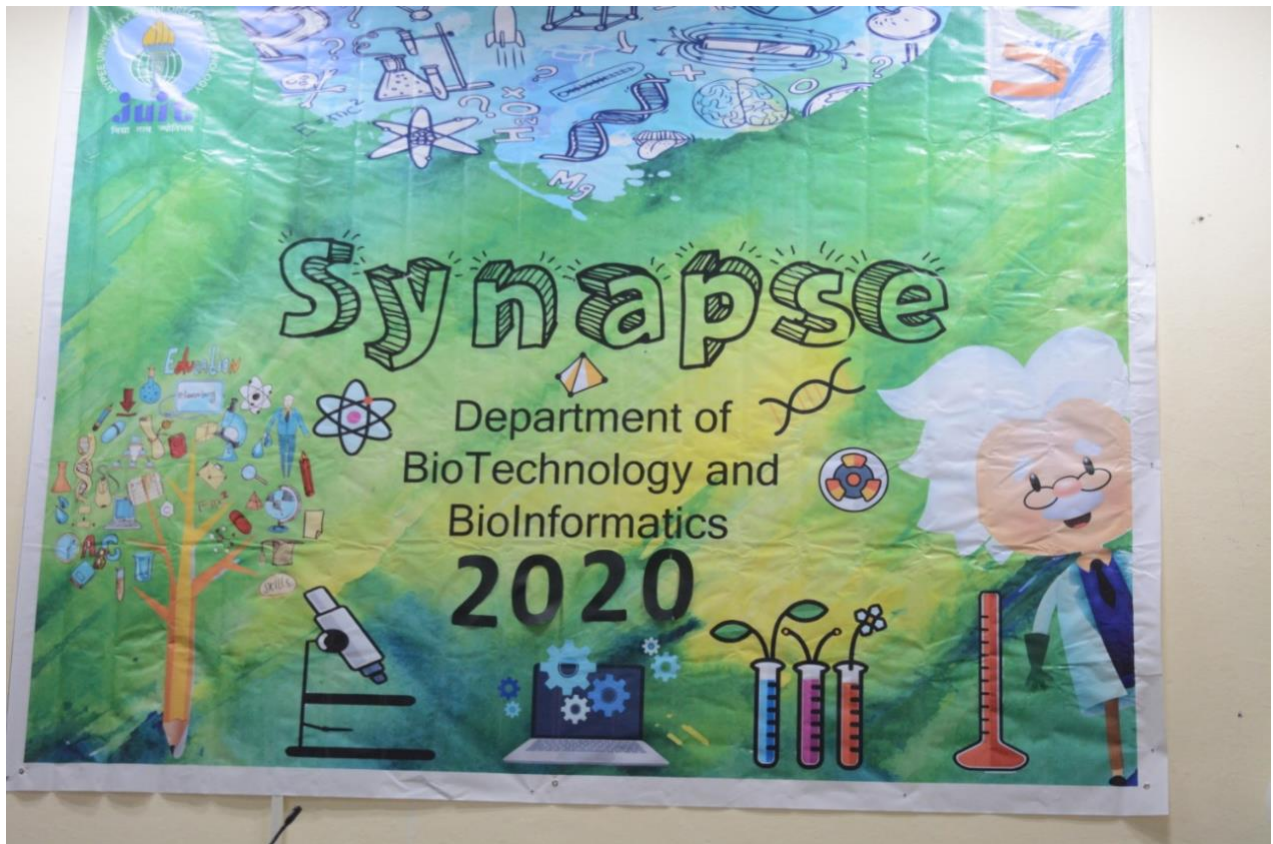
https://www.instagram.com/invites/contact/?i=2ygd7syreyjd&utm_content=h3zzw82

<https://www.linkedin.com/company/synapse-bt-bi-club-juit>

<https://m.facebook.com/pages/category/Community/Juit-Synapse-1538723229696530/>

PICTURES OF EVENTS

1) INCIPERE













2. WEBINAR

