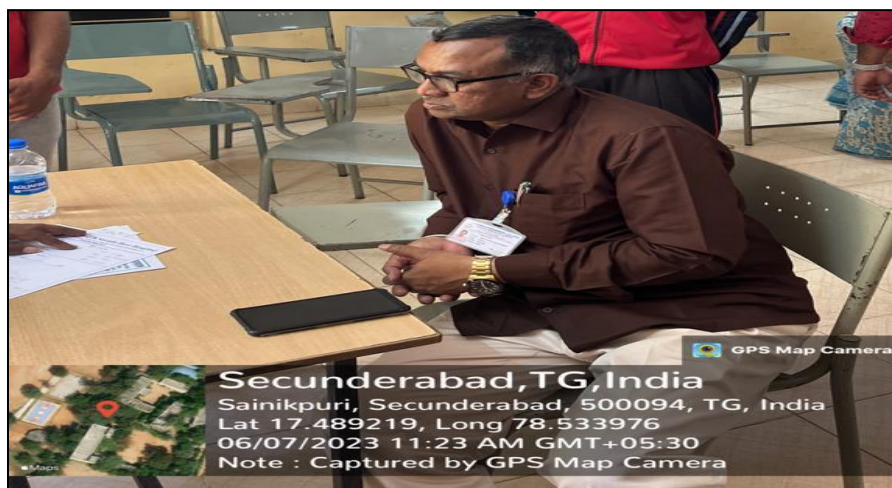


Free Health Camp

7-06-2023

The Medical & Health Committee along with the department of Biochemistry & Nutrition, NCC, NSS and YRC organized a free health camp by the orthopedic doctors for all staff members of the Bharatiya Vidhya Bhavan, Sainikpuri Kendra on 7th June, 2023. The health camp was organized in collaboration with Sarada Devi Hospitals, Secunderabad. The camp received a very good response with a huge participation of all the staff members utilizing the services. The camp started at 10:00am and continued till 2:00 pm. The tests included the checking of bone mineral density, blood pressure, oxygen saturation along with counseling and consultation by the doctors for any queries associated with bone mineral density and arthritis. The camp also included the consultation services provided by physiotherapist.

.The free health camp received a good response and was well appreciated by the staff members.



Principal sir attending the camp



Staff waiting for the tests to be done



NCC cadets with the staff and team of doctors

Guest lecture

13th April, 2023

The Department of Biochemistry & Nutrition organized a guest lecture on “**Journey of ART(Assisted Reproductive Technology) in the last four decades**” on 13th April, 2023 for the post graduate students. The talk was delivered by Dr.M.Prasad, Chief Embryologist, Anu Test tube Baby Centre, Hyd. Dr.Prasad started his talk on the *in vitro* fertilization techniques and explained the various stages of embryo development. He discussed the different reasons for infertility and explained in detail the technique of intracytoplasmic sperm injection (ICSI), a technique used in assisted reproduction. Dr.Prasad also gave awareness on the success rate of different assisted reproduction technologies and the risks associated with ART. Students of M.Sc(Biochemistry) Semester II and Semester IV(68 students) were benefitted by the lecture.



Dr.Prasad explaining stages of embryo development



Dr.A.SaiPadma, Head, Department of Biochemistry & Nutrition presenting a memento to Dr.Prasad

Visit to Hetero Drugs, Jeedimetla

1st April, 2023

The Department of Biochemistry & Nutrition organized an Industrial visit to Hetero Drugs, Jeedimetla on 1st of April 2023 for the students of M.Sc IV semester. Students were accompanied by two of the faculty members Mrs. Rajani and Mrs. Vanitha. Before their visit into the manufacturing unit, the staff and the students were asked to change their uniform into the dress that was provided by the organization. After this the students were taken to the ODH unit where the resource person showed and explained about the granulation process followed by the blending area, where they had Pillar type bin blender compress room, there he explained about hardness of tablets, and how to disintegrate them. Later, they were taken to the coating area where the students were explained how to cover unpleasant smell and taste of the tablets by the coating mechanism. They were also shown about the packaging and storage of the drugs. Students were also shown the secondary packaging where they were explained about the process. They also got a chance to see how the tablets were packed.

At the end of the visit, the students had an interaction with one of the vice presidents. Students were briefed about the process of recruitment and what kind of criteria the company looks into the students for appointment. They were also explained about the various opportunities that are available for the PG Biochemistry students. Overall the students enjoyed the trip and they found it to be informative.



Students and staff with the Hetero Drugs staff (Vice president and HR manager)



Students and staff with the aprons and head caps before entering into the manufacturing unit

Free Eye check-up Program (Telangana Kanti Velugu)

In association with Primary Health Centre, Malkajgiri

16th and 17th March, 2023

As a part of the 'Telangana Kanti Velugu' program, an initiative of government of Telangana, the Medical & Health Committee of Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri organized a free eye check up program. The camp in association with the Department of Biochemistry & Nutrition, NCC, NSS, BSG and YRC of BVC was held for the staff and students on 16th and 17th March, 2023 from 9.00 am to 4.00 pm. Principal of the college, Dr.G.S.V.R.K. Choudary inaugurated the eye camp. The participants were screened for Visual Acuity Assessment, Ocular history and also Anterior Segment evaluation. The participants were also provided with medicines and spectacles free of cost as per the requirement. The camp received a huge response with a total participation of 360 members that included students, teaching and non teaching staff.



Principal Dr.G.S.V.R.K. Choudary with medical personnel and health committee members.



Staff attending the camp



Students at the camp

Report on First Aid Training

4th March, 2023

First aid is the first and immediate assistance given to any person with either a minor or serious illness or injury. It is one of the core and crucial activities to save a person's life in an emergency. Cardiovascular disease became the leading cause of mortality in India. The honorable Governor of Telangana directed to create awareness and training on CPR, a life saving technique to all the students of Universities and Colleges of the state.

The Medical and Health Committee of Bhavan's Vivekananda College of Science, Humanities and Commerce has organized an awareness and training program on First Aid and Cardio Pulmonary Resuscitation (CPR) in association with Department of Biochemistry and Nutrition, NCC, NSS, BSG and YRC units of the college on 4th March, 2023. The program aims to give awareness and training on CPR to the UG and PG students of the college. Mr. Santosh Kumar, Senior faculty and life member of St. John's Ambulance Association, India was the resource person for the training program. He has demonstrated the CPR and mouth to mouth respiration using a human mannequin. Many students practiced CPR under his guidance during the session. He also explained on various first aid measures to be taken under emergency situations. Additionally many videos related to CPR and first aid were also shown to the students. Students from NCC, NSS, BSG and YRC also participated in the training program. The program was successful with the participation of total 135 students from UG and PG.





Report on National Science Day 2023

National Science Day is celebrated on February 28 every year to commemorate the discovery of Raman effect by Indian physicist Sir C. V. Raman on 28 February 1928. The theme of National Science Day 2023 is “Global Science for Global wellbeing”. Faculty of Life Sciences and Physical Sciences of Bhavan’s Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad, celebrated National Science day this year on 28th February, 2023. The program was inaugurated by Vice Chairman Bharatiya Vidya Bhavan’s Sainikpuri Kendra, Air Commodore(Retd) JLN Sastry, Principal Dr.G.S.V.R.K.Choudary, Chief guest Prof. G Mallesham, Dean, Development & UGC Affairs at Osmania University, Hyderabad and Co-ordinator Dr.A.Sai Padma. The keynote address was delivered by the chief guest and he emphasized on the role of science in the well-being of human beings and also to have self-motivation to face the hardships in life. Dr. Amit Asthana, Associate Professor, NIPER Hyderabad,(on microfluidic devices) Dr.K.PrasannaLatha Senior Scientist GMERF, (Integrated strategies used in liver transplantation) Dr.Seema Pooranchand, DST-Women Scientist,(stellar evolution) Dr. K.Sriram, Assistant Professor, Department of Astronomy, Osmania University,(A view of Universe in high energy domain) delivered enriching lectures. Literature-based e-poster competitions were conducted for both PG and UG students. Dr.Ravindranath Palika, Dr.A. Madhuri, Mr.Singoji Vinay Kumar were the judges for the e-posters. A total of 46 teams, each team comprising of 2-4 students have participated in the competition.



Chief guest Prof. G Mallesham, Dean, Development & UGC Affairs at Osmania University, delivering the keynote address



Dr. K. Prasanna Latha, Senior Scientist, GMERF, Hyderabad, Delivering the lecturer on the occasion of Nation science day



Dr. K.Sriram, Assistant Professor, Department of Astronomy delivering lecture on 'A view of Universe in high energy domain'



Dr.Amit Asthana, Associate Professor, NIPER , Hyderabad NIPER, detailing about microfluidic devices



Distribution of best poster awards to students during valedictory function



**Bhavan's Vivekananda College
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Autonomous College - Affiliated to Osmania University
Sainikpuri, Secunderabad – 500094**

**INTELLECTUAL PROPERTY RIGHTS CELL AND
DEPARTMENT OF BIOCHEMISTRY & NUTRITION
(UNDER DBT-STAR COLLEGE SCHEME)**

**IN ASSOCIATION WITH
NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION (NIPAM)
ORGANIZING THE WORKSHOP**

REPORT

Date of the event: 20/2/2023

Venue: Seminar Hall, MBA block.

Speaker: Dr. Dasari Ayodhya (Examiner of Patents and Design, Chennai)

Audience: Faculty and students.

In collaboration with : Department of Biochemistry and Nutrition.

No. of Participants: 171 students, 18 faculty

Faculty coordinators: Dr. sai padma, Head department of Biochemistry and Nutrition, Dr. kavitha lal, coordinator, IPR CELL.

Intellectual property right cell & department of biochemistry and nutrition of Bhavans Vivekananda College has organized a workshop in association with National Intellectual property awareness mission (NIPAM) on 20th February.

The speaker of the session was **Dr. DasariAyodhya** (Examiner of Patents and Design, Chennai).



The event is anchored by Raksha Negi. **Dr. A. Sai Padma** presented the bouquet to the honorable speaker Dr. DasariAyodhya (Examiner of Patents and Design, Chennai). Dr. Dasari Ayodhya addressed the gathering on the topic **INTELLECTUAL PROPERTY RIGHTS**.

Importance of patents in educational institution the speaker focused and stressed on the first

protect the patent do not publish. The speaker differentiated patent and the research paper along with the Different IP in a single product. Also spoken on_Different IP's in a single product Whom to approach for protection of IP in India and patent procedure in India. The following points are focused regarding the patent filing procedure. The below points have been discussed:

1. Terminology
2. Filings (Forms, Specification, Office, Mode of Filing, Fee etc.)
3. Examination: Patentability Criteria
4. Igniting Solutions to common problems

HAND REST FOR FRACTURED HAND
 Patent Application Number: 6173/CHE/2015


When Adi Kumar (5th Class student) suffered a fracture on his hand. He had to wear a **cast and a sling to support his fractured arm.**

"Wearing the sling for about 16 hours a day along with all the weight of the cast on my left shoulder caused a lot of pain on my shoulder. This is when I thought of **putting an appendage around the waist**, where it is comfortable and painless," says the 10-year-old.

Source: <https://ipf.org.in/innovation/hand-rest-for-fractured-hand/338>

Geographical Indication (GI)

A geographical indication (GI) is a sign used on **products** that have a **specific geographical origin** and possess **qualities or a reputation** that are due to that origin.

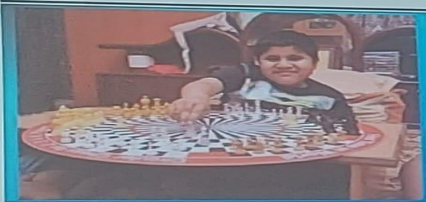


Source: <https://search.ipindia.gov.in/GIRPublic/Application/Details>

2. INSPIRING YOUNG INNOVATORS IN INDIA


SOME YOUNG INNOVATORS IN INDIA

Design no. 238319



♦ **JAI PUR:** Drawing inspiration from scientist **Albert Einstein**, a wheelchair-bound nine-year-old boy here has invented a game of six-player circular chess. The boy, **Hridayeshwar Singh Bhati** has got the game's design patented in his name.

Design no. 238319, Source: <https://www.ndtv.com/India-news/jaipur-teen-hridayeshwar-singh-bhati-becomes-worlds-youngest-differently-abled-patent-holder-2136265>



Saarang Sumesh is youngest innovator of India, he created his **first robot** at the **age of 4 years.**

- Various Examples have been given in reference to young innovators in India who have patented their innovations.

e-Filing Patent Applications Procedure (India)



- Step 1. Registering at the Platform*
- Step 2. Downloading the Client Software- Generate login id and password*
- Step 3. Include digital sign on your application*
- Step 4. Upload the Application*
- Step 5. Make payment*
- Step 6. Generate acknowledgment*

e-Filing Patent Applications Benefits (with IPO)

Flexibility
Fast execution
Accuracy
Adherence to patent format



- Quiz was conducted by the speaker regarding the understanding of the session.



- Further, questions were asked by the students and their doubts were clarified
- Vote of Thanks given by Dr.A.Sai Padma, faculty department of Biochemistry, BVC





BHAVANOTSAV-2023

9th and 10th February, 2023

The Department of Biochemistry & Nutrition has organized 4 events under Bio-Verse life sciences for Bhavanotsav-2023 on 9th and 10th February, 2023. Two technical events Destiny with Dice and Just A minute and two non-technical events Invisible Intruder and Test Your Taste Buds were conducted.

Destiny with Dice: A game of ladders and numbers using questions related to science, general knowledge and riddles were given to the participants as clues in room number 71, Biochemistry block. Each team included 3 participants. A total of 32 team registrations were received from various colleges. A huge response was received for the event which was thoroughly enjoyed by the participants.

The first prize was secured by Loyola Degree College, Alwal, Secunderabad by BtGC second year students Bilwa Karthik, Anov Elnathan and T. Chinmayee. Second prize was secured by Bhavan's Vivekananda College, Sainikpuri, Secunderabad by BtGC first year students Abhiram. K, T.K. Prudhvi Raj, Harsh Shukla.

Just A minute: The event was a one minute elocution competition. The participants have to pick a chit with a topic from the box. The topics included food ingredients on which they had to speak for one minute without pauses. A total of 15 students have participated in the event. A good response from the participants was received for the event.

Mrs. Durga Nandini from Kasturba Gandhi Degree and PG College, Marredpally, Secunderabad has judged the event.

First prize was secured by B. Poojashree from BSc. HDS I year and Farshan Shaik from BtGC II year won the second prize from Bhavan's Vivekananda College, Sainikpuri, Secunderabad.

Invisible Intruder: This was an event in which a crime scene depicting a murder of a person was recreated. The participants have to investigate the crime scene and identify the culprit with the help of a few clues left near the incident. Each team included 3 participants. A total of 49 teams were registered from various colleges. The whole game was very riveting and inquisitive.

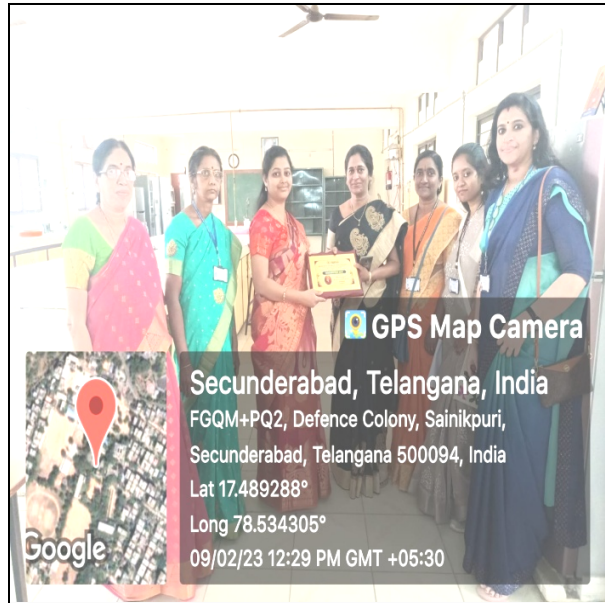
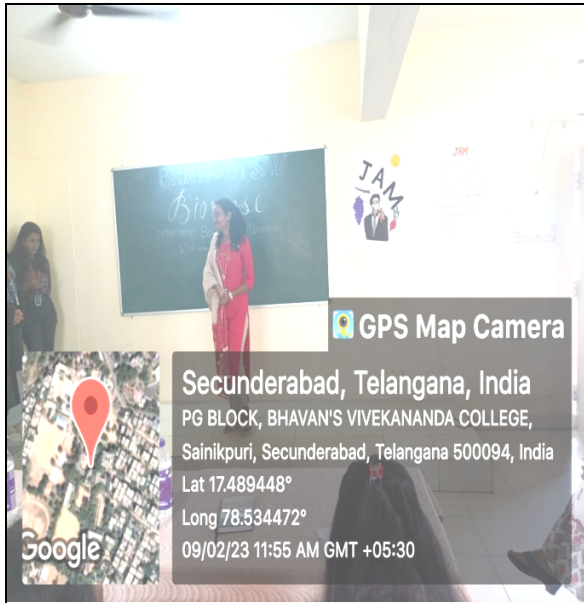
The first prize was secured by Loyola Degree College BtGC first year Hoshang AV Iyengar and Vivek Reddy and second prize was won by Bhavan's Vivekananda College B.Com. Computers first year students Yeshwanth , Ravishankar and Rohith.

Test Your Taste Buds: This event was an exclusive testing of a person's senses when they are blind folded. The first and second rounds were eliminating rounds totally based on tasting the given food ingredient. The final round was based on three senses- touch, smell and taste to identify the ingredient. A total of 127 participants have participated from various colleges. Overwhelming response was received and the whole event was filled with enthusiasm.

The first prize was secured by Ishita from MSCs II year and Rishika Jain of MNDC III year from Bhavan's Vivekananda College, Sainikpuri, Secunderabad.



Destiny with Dice



Just a Minute



Invisible Intruder



Test Your Taste Buds

Department of Biochemistry & Nutrition

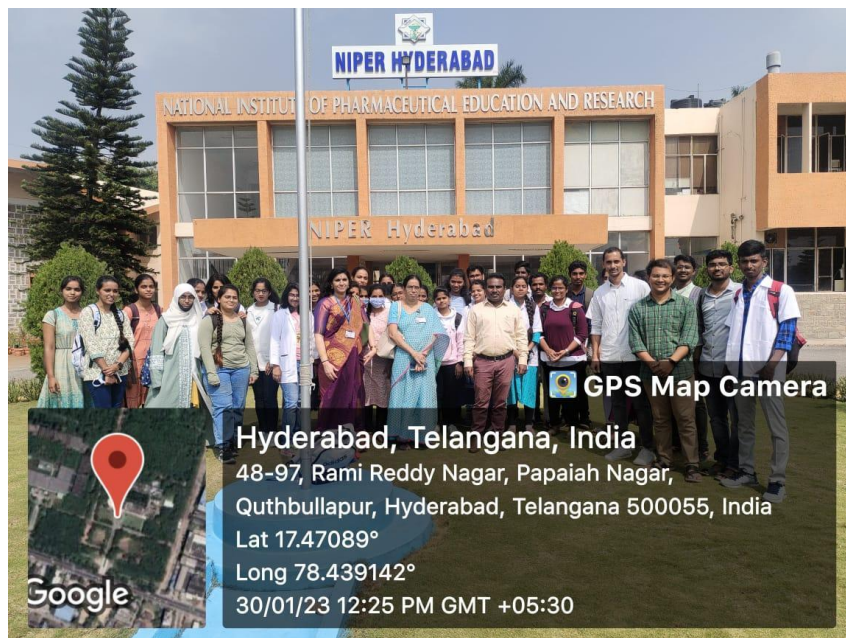
31-01-2023

Educational visit to NIPER, Hyderabad

The Department of Biochemistry & Nutrition organised an educational visit to NIPER, Hyderabad, a leading National Institute in Pharma education on 31st January, 2023. A total of 33 students from M.Sc. Biochemistry first semester were accompanied by staff members Mrs. D.Rajani and Dr. Manju Devi to visit the institution.

Students were divided into two groups and taken to different laboratories. At NIPER, students were briefed about the facilities available and also about the various research and development activities in the labs. Students were taken to Medicinal chemistry lab, Process chemistry lab, Pharmacology lab and Regulatory labs and were detailed about the work that goes on there. The working principles of sophisticated instruments like NMR spectrometer, nanodrop spectrophotometer, scanning electron microscope, HPLC, zeta size nano, Gas Chromatograph: GC-2014, LC-MS/MS Q-tof 6540, tablet Punching and Coating Machine, FT-IR Spectrophotometers were also explained to the students. Animal house facility was shown to students and various experiments conducted there were also explained. Students

enthusiastically interacted with the research scholars and faculty of NIPER and expressed their happiness for an enriching experience at NIPER.



Students and Faculty with Dr. Venkat Rao and Research scholars at NIPER



instruments



Students being briefed about sophisticated

Department of Biochemistry

Educational Visit

NIPER, Hyderabad

31-01-2023

Roll Nos	Name of the Student
107222514001	ADEPU PRIYANKA
107222514003	GAINI VAMSHI
107222514004	GUNDEPURI SUSMITHA
107222514005	JALIGAMA MOUNIKA
107222514006	KALLEM SOWMYA
107222514007	KANDUKURI SHASHANK
107222514008	KOMPELly PRANATHI
107222514009	MANDALA SOWJANYA
107222514010	MEGAVATH SUPRIYA
107222514011	NALI NANDINI PRIYA
107222514012	PACHIMATLA MANI SAI
107222514013	PADGETWAR THRIKUT CHANDRA
107222514014	PALLETI BUELA RANI
107222514015	PASULADI NANDINI
107222514016	SHILAM SHIVANI REDDY
107222514017	SINGAM SOWMYA
107222514018	SUNKARI ASHWINI
107222514020	VALAGE DIKSHA
107222514021	VEMURI VLNS ANJANA KRISHNA SRI
107222514022	E AKHILA

107222514023	GEEDIPALLY AISHWARYA
107222514024	ILLINTALA BHANUTEJA
107222514025	NARRA BHARGAV REDDY
107222514026	POPULLA VISHNU PRIYA
107222514027	SHAHEEN SULTHANA
107222514028	VAISHNAVI KOLIPAKA
107222514029	VELDHI SUMYUKTHA
107222514031	A VARSHITHA REDDY
107222514032	ANEESA NAZAREEN
107222514033	CHINTALA SHIVANI REDDY
107222514034	ERUGANDINDLA RAJA SHEKAR
107222514035	SAI AISHWARYA ROBBY
107222514036	YEMMA JHANSI



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Intellectual Property Rights Cell
&

Department of Biochemistry & Nutrition

In association with

Rajiv Gandhi National Institute of Intellectual Property Management (RGNIPM), GOI, Nagpur.

Date: 10/1/2023

Mode: online, Cisco webex

Speaker: Mrs.Pooja Vishal Maulikar, Examiner of Patents & Designs, Nagpur.

Participated by: Faculty and students.

No. of participants: 277

Intellectual Property Rights Cell and Department of Bio chemistry in association with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIPM) organized an online Workshop on 10th January 2023. The guest speaker was Mrs.Pooja Vishal Maulikar, Examiner of Patents & Designs, and Nagpur. The topic for the workshop was “Intellectual Property Rights (IPR) & Patents and Design Filling”.




This workshop mainly organized to create awareness students on Intellectual Property Rights. The guest speaker described about the classification of property into Tangible (Measurable) and Intangible (Not measurable) and they where subdivided respectively where intellectual property comes under Intangible.

She emphasized on each and every intellectual property which are patents, Designs, Trademarks, Copyrights. She explained about the procedure to obtain those intellectual rights and how many years they can hold the right from the date of filing , their requirements along with specification structure of every particular rights and websites which are available to apply been explained in detail to the students. She differentiated every intellectual right by providing examples to understand easily.

Mode of filing, the fee structure for every intellectual property rights and format of the certificate, mistakes to be avoided before filing been explained by guest lecture and also said relationship between IPR with examples.

Differences between Intellectual Property Rights:

Patents	Designs	Trademarks	Copyrights	Geographical Indication
<p>Inventions must be manufactured product or process or device</p> <p>Patent is for technology</p> <p>Novel</p> <p>Inventive</p> <p>Industrial</p> <p>Applications</p> <p>Non-patentable</p>	<p>Design shall be outer configuration of product which is applied to articl/product in 2D or 3D</p> <p>For making the product beautiful</p> <p>To attract</p> <p>Novel is required</p>	<p>Word, logo, slogan</p> <p>To make logo or brands to distinguish goods from others</p>	<p><u>Works</u></p> <p>Drama , songs music, paintings, artistic works, plans, etc</p>	<p>Place names</p>
<p>Can hold till 20 years from the date of filing</p>	<p>10+5 years</p>	<p>10 years & it can be renewed every 10years till any time</p>	<p>Life time of author +60 years after death</p>	<p>10years & it can be renewed every 10 years</p>


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Autonomous College - Affiliated to Osmania University
Sainikpuri, Secunderabad-500094

**Intellectual Property Rights Cell
and
Department of Biochemistry & Nutrition
(Under DBT - Star College Scheme)**

In association with
**Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM)
Government of India, Nagpur**
(Under National Intellectual Property Awareness Mission)

presents
Online Workshop on

**"Intellectual Property Rights (IPR)
& Patents and Design Filing"**



Resource Person:
Mrs Pooja Vishal Maulikar,
Examiner of Patents & Designs,
Nagpur

Webinar Link
[click here](#)

Registration Link
[Click here](#)

All the participants will be given E-Certificates

Date of the Program: 10/1/2023, 10:30 AM to 11:30 AM

Dr. A. Sai Padma
Assistant Professor,
Head, Dept of Biochemistry
9866351183

Dr. Kavitha Lal
IPR Cell Coordinator,
9966651720

Webex Meeting Info Hide Menu Bar 01:12:39

File Edit Share View Audio & Video Participant Meeting Help

Dr. Kavitha Lal Me Y.Hemanth Kumar (094)Kalma Taryyaba 014 GOURINATH

Viewing Pooja Maulikar's screen - 43% +

Who can file Patents & Designs application / Applicant? in INDIA

- Individual / Natural person (Indian / Foreigner)
- Any Legal Entity e.g. a company (Indian / Foreign)
- Small Entity Eg. Registered under MSME under msme Act involved in manufacture /production of goods
- Start Up or can jointly file with above

34

Participants (277)

Search

- DL Dr. Kavitha Lal Me
- R rgniipm.ipo@nic.in Host
- PT Pooja Maulikar Cohost
- A Ashwini Cohost
- YK Y.Hemanth Kumar

Chat

from D.NEELAKANTAM (privately): 10:59 AM
Namaste Ma'am

To: Everyone

Enter chat message here

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Participants Chat

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01:12:22

Dr. Kavitha Lal Me

Pooja Mauli... (Co-host)

Y.Hemanth Kumar

(094)Kalma Taryaba

014 GOURINATH

Viewing Pooja Maulikar's screen - 43% +

Who can file Patents & Designs application / Applicant? in INDIA

- Individual / Natural person (Indian / Foreigner)
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- Start Up or can jointly file with above

34

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Participants Chat

Participants (273)

Search

DL Dr. Kavitha Lal Me

R rgnipm.ipo@nic.in Host

P+ Pooja Maulikar Co-host

A Ashwini Co-host

YK Y.Hemanth Kumar

Chat

from D.NEELAKANTAM (privately): 10:59 AM Namaste Ma'am

To: Everyone

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11:09 10-01-2023

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01:11:44

Dr. Kavitha Lal Me

Pooja Mauli... (Co-host)

Y.Hemanth Kumar

(094)Kalma Taryaba

014 GOURINATH

Layout

Viewing Pooja Maulikar's screen - 43% +

Various Free Patent Search sites
(there are other offices sites, anyone can get it from internet)

- <https://ipindiaservices.gov.in/publicsearch>
- <https://patents.google.com/>
- <https://patentscope.wipo.int/search/en/search.jsf>
- https://worldwide.espacenet.com/advancedSearch?locale=en_EP
- <http://appft.uspto.gov/netahtml/PTO/search-adv.html>

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Participants Chat

Participants (274)

Search

DL Dr. Kavitha Lal Me

R rgnipm.ipo@nic.in Host

P+ Pooja Maulikar Co-host

A Ashwini Co-host

YK Y.Hemanth Kumar

Chat

from D.NEELAKANTAM (privately): 10:59 AM Namaste Ma'am

To: Everyone

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11:09 10-01-2023

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Dr. Kavitha Lal Me Pooja Maulik... (Cohost) Y.Hemanth Kumar (094)Kalma Taryyaba 014 GOURINATH Layout

Viewing Pooja Maulik's screen - 43% +



Electric lightbulb

- famous patented invention
- Thomas Alva Edison in 1878



Participants (269)

Search

- DL Dr. Kavitha Lal Me
- R rgniipm.ipo@nic.in Host
- P+ Pooja Maulikar Cohost
- A Ashwini Cohost
- YK Y.Hemanth Kumar

Chat

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Namaste Ma'am

To: Everyone

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File Edit Share View Audio & Video Participant Meeting Help

Dr. Kavitha Lal Me Pooja Maulik... (Cohost) Y.Hemanth Kumar (094)Kalma Taryyaba 014 GOURINATH

Viewing Pooja Maulik's screen - 43% +

Prathamesh

- Annie – An iPhone Moment in the field of Braille Literacy
- smart brain learning device



Participants (273)

Search

- DL Dr. Kavitha Lal Me
- R rgniipm.ipo@nic.in Host
- P+ Pooja Maulikar Cohost
- A Ashwini Cohost
- YK Y.Hemanth Kumar

Chat

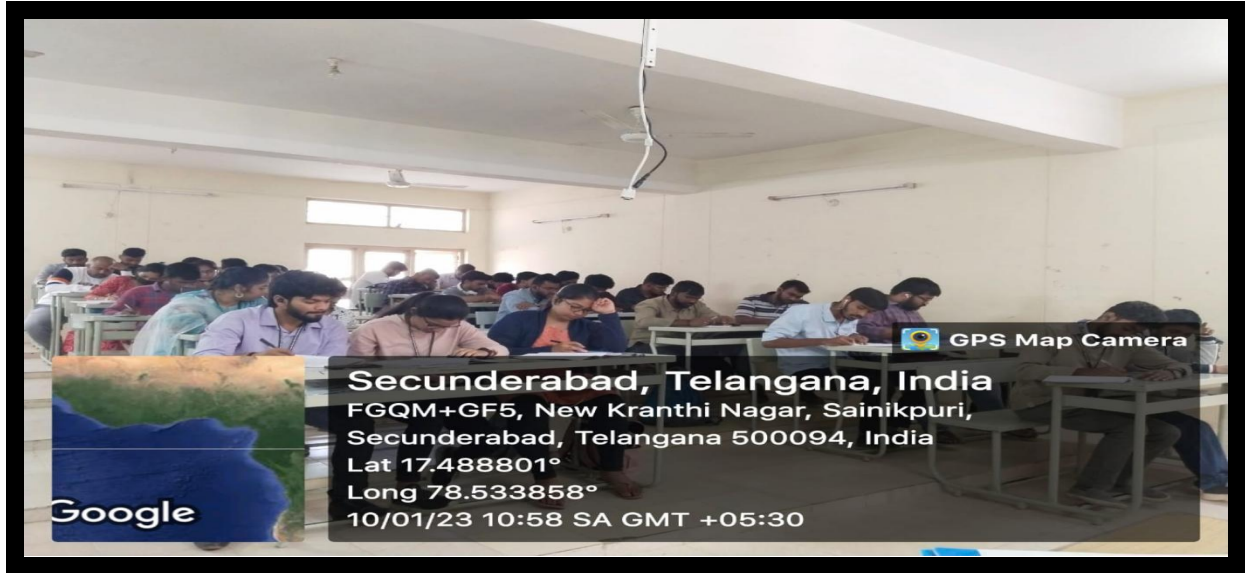
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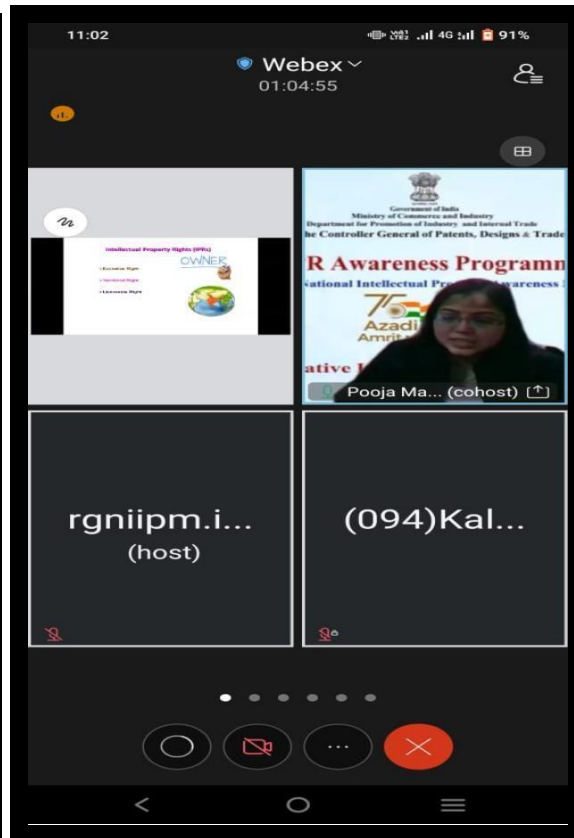
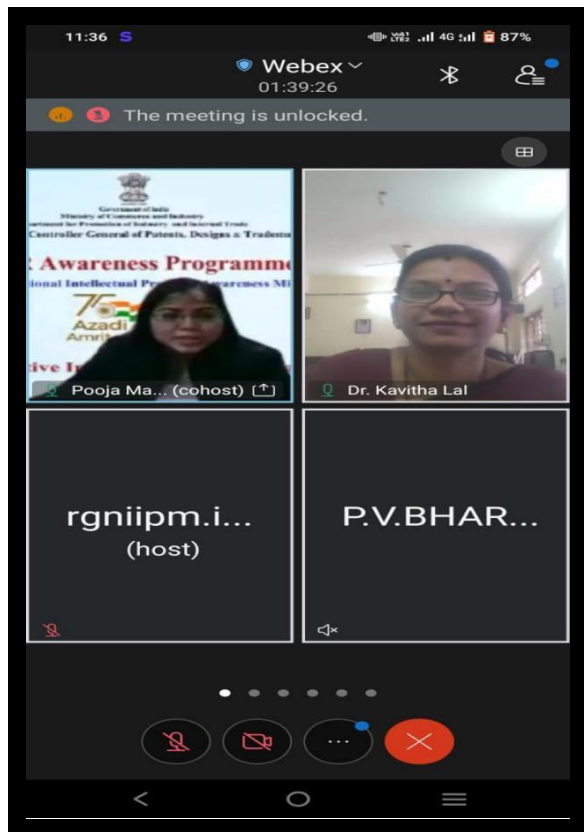
Enter chat message here

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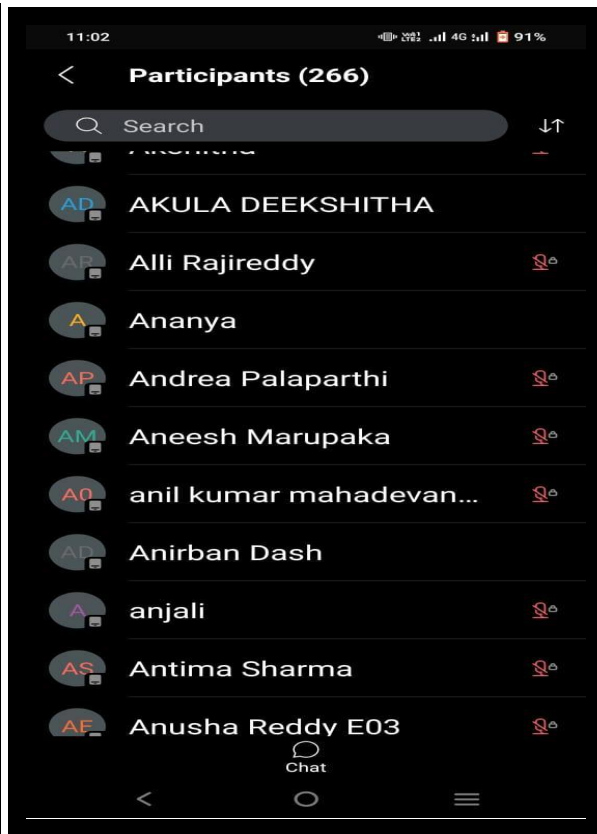
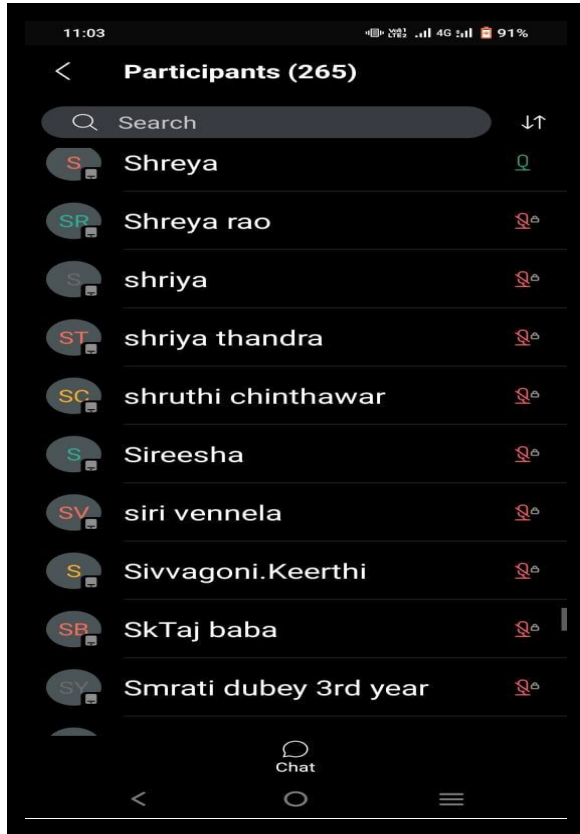
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Students attending workshop through online mode on 10th January'2023



Guest speaker explaining Intellectual property Rights in detail



Students actively participating in Workshop
Department of Biochemistry & Nutrition

Alumni meet

7th January, 2023

The Department of Biochemistry and Nutrition organized an alumni meet for the undergraduate and post graduate students on 7th January, 2023. Five alumni students, Mr.M.Chandrasekhar (2012-14 batch) Clinical laboratory, Incharge Yashoda Hospital, Secunderabad, Kotwal Shifa Bushra, (2016-18 batch) Research scholar, Department of Biological Sciences-BITS Pilani, Hyderabad campus, Mr.V. Sreekar (2018-20 batch) Sr.Officer Indian Immunologicals Pvt Ltd, Hyd, M. Rohit Kumar (2018-20) Junior Research Analyst(Free lancer) Excelra Knowledge Solutions Pvt Ltd, Uppal, Hyd and T.Ramya (2019-21) Project research Assistant, National Institute of Nutrition, Tarnaka, Hyd were invited for the meet.

The alumni students explained their experiences after completion of post graduation in reaching their respective employment. Mr Chandrasekhar discussed the job opportunities in the field of clinical biochemistry and the increasing demand for lab personnel. Ms.Shifa explained about the research funding schemes and advised the students to complete online certification courses to improve their academic and employment opportunities. Mr.V.Sreekar explained his experiences in getting employed in industry. Mr.M.Rohit Kumar explained the need to get familiar with drug discovery process and he also demonstrated the steps involved in identifying chemical molecules. All the alumni students counseled the students about the employment opportunities. All the undergraduate and postgraduate students interacted very well with the alumni and acquired information on the process of approaching various organizations for employment.



Alumni students with the faculty of Dept of Biochemistry & Nutrition



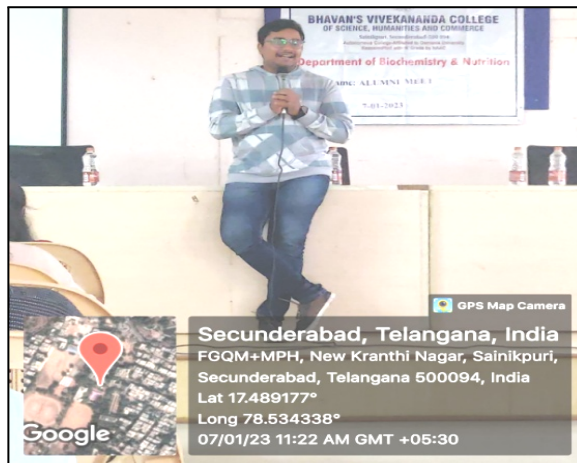
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Alumni students, Mr.Chandrasekhar, Mr. Sreekar and Ms. Kotwal Shifa Bushra and Mr.M.Rohit Kumar interacting with the post graduate students of Biochemistry

Free Eye Camp

10-12-2022

The Medical & Health Committee along with NCC, NSS, YRC and BSG organized a free eye camp for all the staff members of the Bharatiya Vidhya Bhavan, Sainikpuri Kendra on 10th December, 2022. The eye camp was organized in collaboration with Medivista Eye Centre, Safilguda, Secunderabad. The camp received a huge response with 104 members utilizing the services. The camp started at 10:00am and continued till 3:00 pm. The camp included computer eye testing, subjective refraction along with counseling and consultation by the doctor.

The free eye camp received a good response and was well appreciated by the staff members.



Staff along with the principal Dr.GSVRK Choudary



Principal participating in the eye camp



Staff availing services at the camp



Staff and BSG of the college



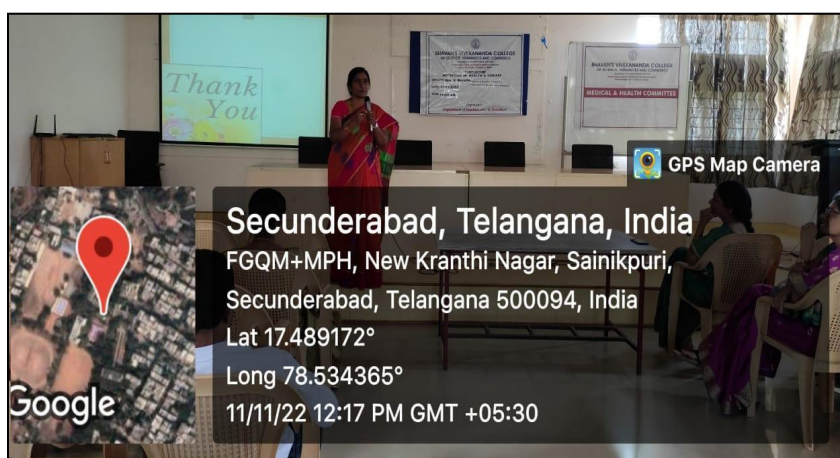
YRC students along with the staff of the college and Medivista Eye Centre

Department of Biochemistry & Nutrition

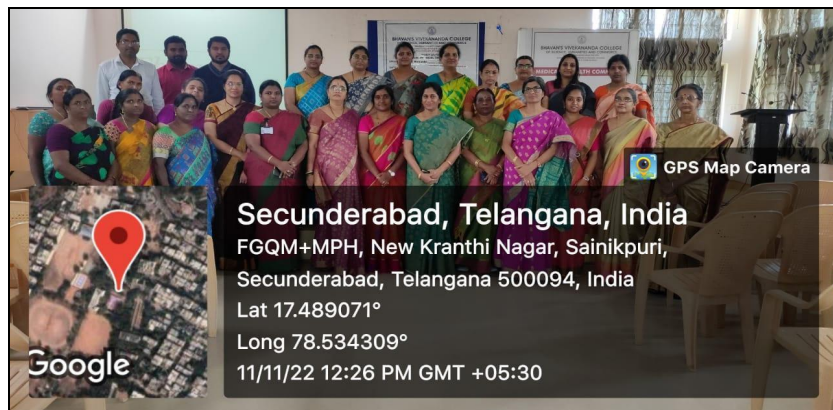
Outreach Program

11th November, 2022

The department of Biochemistry & Nutrition has organized an outreach programme for the teaching and non-teaching staff of Bhavan's Vivekananda College, Sainikpuri on 11th November, 2022. Mrs. Vedantam Revathi, Lecturer in Nutrition & Dietetics, department of Biochemistry & Nutrition has addressed the gathering on "Nutrition in Health & Disease". She has emphasised on the importance of nutrition in alleviating health status. Importance of including regular physical activity in the daily routine was highlighted. She has stressed upon few common diseases and their diet modifications like obesity, diabetes, blood pressure etc. Individual diet counselling session was held for the participants after the lecture. A total of 22 participants have attended the session from both the teaching and non-teaching fraternity. The lecture was informative and beneficial to the participants.



Lecture by Mrs. Vedantam Revathi, Lecturer in Nutrition & Dietetics, Dept. of Biochemistry & Nutrition



Teaching and non-teaching staff attended the outreach program.

Free Health Camp

9th November, 2022

The Medical & Health Committee and the Department of Biochemistry & Nutrition along with NCC, NSS, YRC and BSG organized a free Health Camp for all the staff members of the Bharatiya Vidhya Bhavan, Sainikpuri Kendra on 9th November, 2022. The Health Camp was organized in collaboration with Srikara Raghavendra Hospitals,, Secunderabad. The camp included the parameters like checking the blood glucose, blood pressure, ECG, and consultation by the doctors that included arthroscopic surgeon. The camp received a huge response with the staff members utilizing the services.



Srikara Hospitals Team of staff with the members of Medical & Health Committee



Staff taking an ECG Test



Staff utilizing the services at the Health Camp



Staff utilizing the services at the Health Camp



Staff utilizing the services at the Health Camp

Bhavan's Vivekananda College, Sainikpuri

Department of Biochemistry & Nutrition

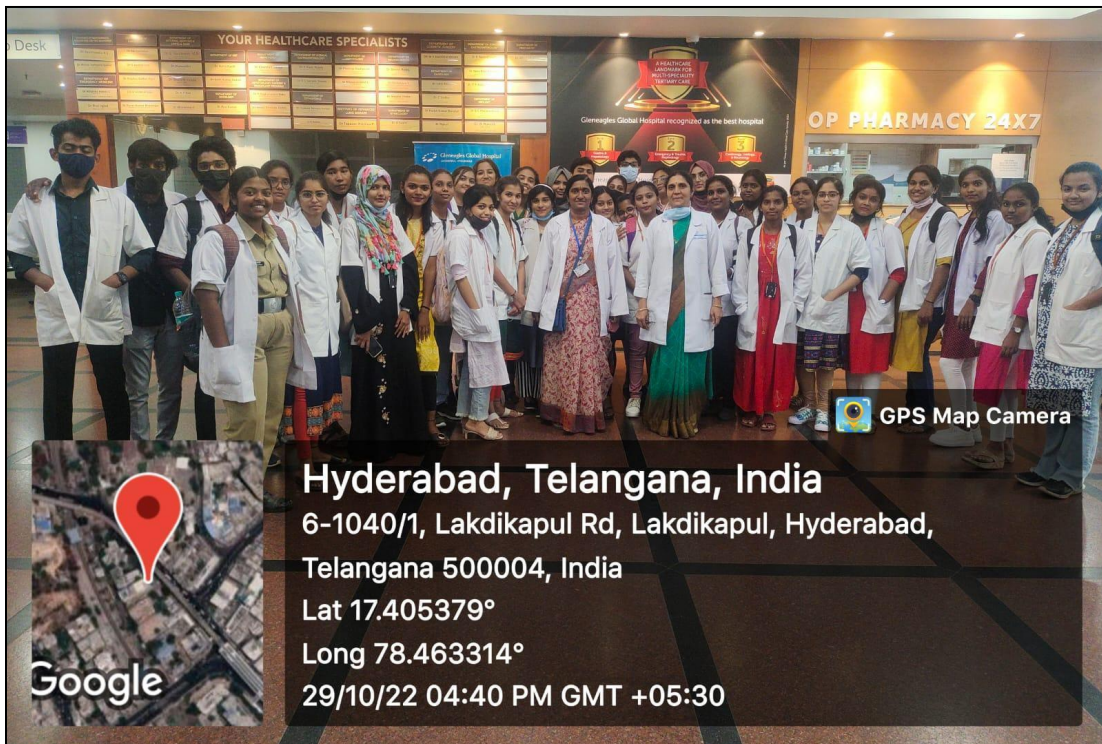
“Visit to Gleneagles Global Hospital”

29th October, 2022

The students of MBNDC final year were taken for a visit to Gleneagles Global Hospital, Lakdi-ka-pul, Hyderabad on October 29th, 2022 as part of their course curriculum. The Chief Dietitian Mrs. A. Naga Malleshwari has addressed the students about the role and job profile and the challenges faced by dietitians in clinical practice. Intricate points were well explained regarding the special feeding methods which have to be focused while assessing the patient and in planning and preparation of the feed. This was followed by a case study review taking live examples and case sheets of the inpatients. After the explanatory session, the students were taken to the inpatient wards. The food and beverage units were visited at the end of visit, which included the hospital kitchen and cafeteria. A total of 35 students have visited the hospital, accompanied by Mrs. V. Revathi, Lecturer in Nutrition & Dietetics. Overall, the visit was very informative, practical oriented and highly beneficial to the students.



Explanatory session by Chief Dietitian Mrs. A. Naga Malleshwari to MNDC final year students



Students with the Chief Dietitian Mrs. A. Naga Malleshwari, Gleneagles Global Hospital

Department of Biochemistry & Nutrition

“Rashtriya Poshan Maah– 2022” Celebrations

22nd and 23rd September, 2022

The Department of Biochemistry & Nutrition, Bhavan’s Vivekananda College, Sainikpuri, has celebrated “Rashtriya Poshan Maah-2022” to create awareness among students, staff and other community to highlight the importance of nutrition in the maintenance of health and in the prevention and treatment of diseases. The theme of the Rashtriya Poshan Maah-2022 was “Mahila aur Swasthya and Bacha aur Siksha”. The theme for the nutrition week was “World of Flavours”. Both the themes were used in planning the programs for the event.

On 22nd September, 2022, the event was inaugurated by Air Commodore, J.L.N. Shastry, VSM (Retd), Vice Chairman, Bhartiya Vidya Bhavan, Sainikpuri Kendra, officiating principal Mrs. B. Niraimathi, Life Science Head and HoD, department of Genetics and Biotechnology Dr. Jyothi Nair and HoD, Department of Biochemistry & Nutrition Dr. A. Sai Padma and Guest Speaker Dr. Jyothirmayi, Principal Scientist, CFTRI, Hyderabad. The inaugural session was followed by a lecture delivered by Dr. Jyothirmayi, Principal Scientist, CFTRI, Hyderabad, on “Eat Healthy with a World of Flavour” where she emphasized on the techniques of food processing and enhancement of nutritional value with the help of technology.

This was followed by the second lecture by Guest speaker, Dr. Latha Sashi, Chief Nutritionist & Head, Department of Clinical Nutrition and Dietetics, Fernandez Hospital, Hyderabad on “Health on Your Plate”. She emphasized on various nutritional aspects with good health benefits especially for adolescent boys and girls and also stressed on physical activity. The total registrations received were 116 for the competitions.

This session was followed by Slogan writing on “World of Flavours” and the event was judged by Dr. Jyothirmayi, Principal Scientist, CFTRI, Hyderabad. The next event was “Nutrifeast”, food for sale. Students of Nutrition & Dietetics, from all three years of MNDC have participated in the event and displayed various healthy, tasty and nutritiously rich food items for sale. Good response was received from staff and students who enthusiastically came forward to encourage the students.

The events of the second day 23rd September, 2022, were started with the poster competition. Students from various streams from science, commerce and arts have participated in the competition. The event was judged by Mrs. Madhuri Chandala, Research Scholar, Sri Venkateshwara University, Tirupathi. This was followed by the “Fireless Cooking” competition. Various students from all streams have actively participated in this competition. The event was judged by Mrs. D. Rajani, Lecturer in Biochemistry, department of Biochemistry & Nutrition and Mrs. Vedantam Revathi, Lecturer in Nutrition & Dietetics, department of Biochemistry & Nutrition. The final event Quiz was conducted by Mrs. S. Vanitha, Lecturer in Biochemistry, department of Biochemistry & Nutrition and students from various colleges have actively participated in the event.

The program was concluded by Valedictory Session chaired by officiating principal B. Niraimathi. Winners of all the competitions were announced and appreciated with mementos and certificates by off-Principal and Head of the department.



Inaugural Lighting of lamp by Air Commodore, J.L.N. Shastry, VSM (Retd), Vice Chairman, Bhartiya Vidya Bhavan, Sainikpuri Kendra



Inaugural address by off.Principal B. Niraimathi and LifeSciences Head & HoD, Dept.of Genetics and Biotechnology, Dr. Jyothi Nair and HoD, Dept. of Biochemistry & Nutrition Dr. A. Sai Padma.



Guest lecture by Dr. Jyothirmayi, principal scientist, CFTRI, Tarnaka Hyderabad.



Guest Lecture by Dr. Latha Sashi, Chief Nutritionist & Head Department of Clinical Nutrition and Dietetics, Fernandez Hospital, Hyd.



Felicitating Dr. Jyothirmayi, principal scientist, CFTRI, Tarnaka Hyderabad, by Air Commodore, J.L.N. Shastry, VSM (Retd), Vice Chairman, Bhartiya Vidya Bhavan, Sainikpuri Kendra



Felicitating Dr. Latha Sashi, Chief Nutritionist & Head Department of Clinical Nutrition and Dietetics, Fernandez Hospital, Hyd, by Air Commodore. J.L.N. Shastry, VSM (Retd), Vice Chairman, Bhartiya Vidya Bhavan, Sainikpuri Kendra



Nutrifeast: Students selling healthy and tasty recipes



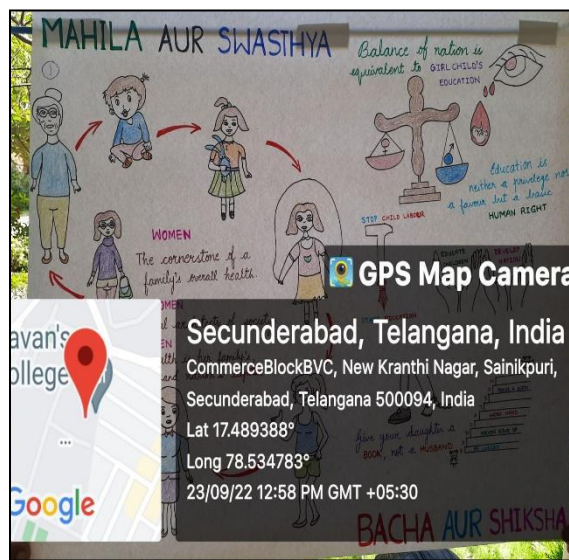
Staff and students enjoying the delicacies at the Nutrifeast.



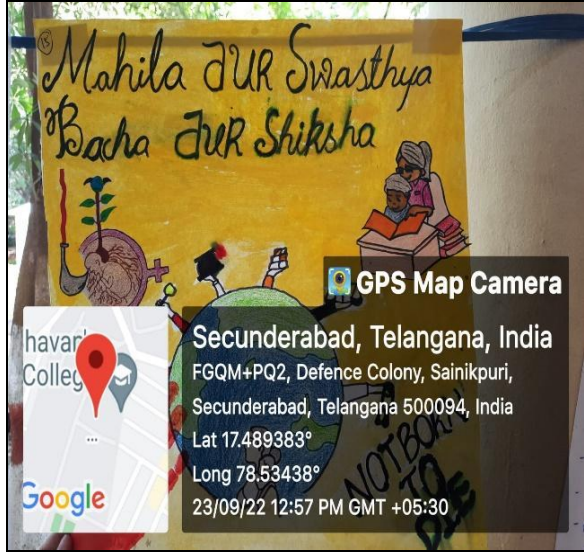
Volunteers of Nutrifeast with off.Principal B. Niraimathi and HoD, Dept. of Biochemistry & Nutrition, Dr. A. Sai Padma.



Poster competition judged by Mrs. Madhuri Chandala, Research Scholar, Sri Venkateshwara University, Tirupathi, Andhra Pradesh.



Posters at the competition.



Felicitating Mrs. Madhuri Chandala, Research Scholar, Sri Venkateshwara University, Tirupathi, Andhra Pradesh, by HoD, Dept. of Biochemistry & Nutrition, Dr. A. Sai Padma.



Few delicacies of Fireless Cooking competition



Judging the recipes of Fireless cooking competition by Mrs. D. Rajani, Lecturer in Biochemistry, department of Biochemistry & Nutrition and Mrs. Vedantam Revathi, Lecturer in Nutrition & Dietetics, department of Biochemistry & Nutrition.



Quiz conducted by Mrs. S. Vanitha, Lecturer in Biochemistry, department of Biochemistry & Nutrition

Blind fold round in Quiz



Winners of all the competitions receiving mementos and certificates by off-Principal and Head of the department.

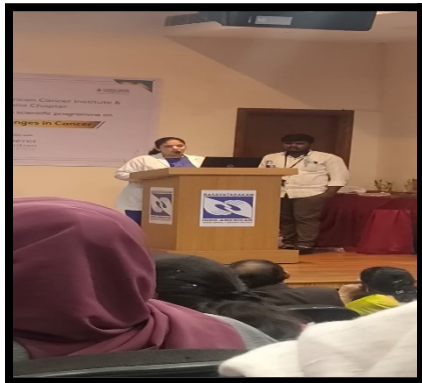
Department of Biochemistry & Nutrition

Visit to Basavatarakam Indo-American Cancer Hospital & Research Institute

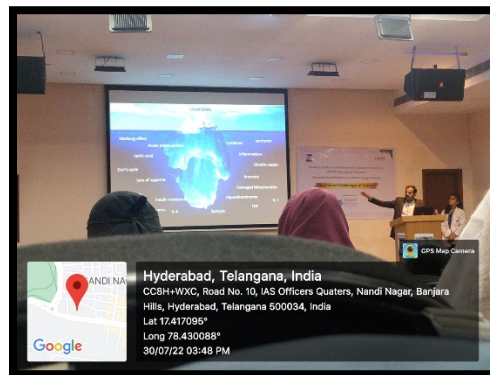
30th July, 2022

Students of MNDC (Microbiology, Nutrition & Dietetics, Chemistry) 2nd year have attended a seminar on “Nutritional Challenges in Cancer” at Basavatarakam Indo-American Cancer Hospital & Research Institute, Hyderabad on 30th July, 2022. The seminar was organized hospital in collaboration with Indian Association of Parenteral and Enteral Nutrition (IAPEN) Telangana Chapter and Esperer Nutrition. Dr. T. Shivashankar, Chief Dietician at Tata Memorial Hospital, Mumbai has explained about cancer cachexia and management in detail. Dr. Krupa Bajaj of Basavatarakam Indo-American Cancer Hospital & Research Institute, Hyderabad, have given an overview of cancer and how nutrition can elevate the issues in post-surgery and help in early recovery. Dr. Anubhab Mukherjee has explained about the recent trends in cancer cachexia and how Esperer nutrition improves the nutritional status of these patients.

The seminar has enhanced the research based knowledge and the recent trends of nutrition in cancer.



Dr. Krupa Bajaj delivering her lecture



Dr. T. Shivashankar addressing on cancer cachexia



Book release by IAPEN on enteral nutrition



With students at the venue

Department of Biochemistry & Nutrition
Report
Value Added Course on
“Hands on Training in Pharmaceutical Basics and Analytical Techniques”
The Pharma Patashala, Miyapur, Hyderabad
2021-22

18th to 23rd July, 2022

The Department of Biochemistry & Nutrition, Bhavan's Vivekananda college of Science, Humanities and Commerce has organized a six days value added course on “Hands on training in Pharmaceutical basics and Analytical techniques” as a part of skill development in collaboration with The Pharma Patashala, Miyapur, Hyderabad.

The value-added course was scheduled from 18th to 23rd July, 2022 at The Pharma Patashala, Miyapur, Hyderabad. A total of 33 M. Sc II year Biochemistry (Semester IV) students has undergone the training sessions. Students had a hands-on training on sophisticated analytical equipment like HPLC (High Performance Liquid Chromatography), GC (Gas Chromatography), Karl Fischer Titrator, Melting Range meter, Disintegration apparatus, Friability LOD (Loss on Drying). Apart from these they also had live demonstrations on Dissolution Apparatus, FTIR (Fourier Transform Infrared Spectroscopy).

On day 1, students had an introductory presentation by Dr. P. V. V Satyanarayana, Managing Director, The Pharma Patashala, on Pharmaceutical Activities where the students were briefed about production of API (Active pharmaceutical ingredient) from the raw materials, till a complete formulated drug was produced, facilities available and about the instruments that were available. Day 2, students had lecture and practical exposure on Melting Range Apparatus followed by lecture on common Standard Abbreviations, which was mostly focused on standard terms used in pharmaceutical industry. Day 3, began with a lecture introducing the principle, instrumentation, data interpretation, software used and applications of HPLC. This lecture was followed by a hands-on experience by students where they injected drugs like Ciprofloxacin and Metformin to find out the Retention Time of the drugs.

Day 4, students had lectures on working principle, instrumentation on Gas Chromatography, Fourier Transform Infrared Spectroscopy, Karl Fischer titrator and practical exposure on Karl Fischer titrator an instrument which is used to measure the water content of the drug. Day 5, students had a briefing session focusing on, Friability and Disintegration apparatus. These instruments provide us with the information regarding drug durability and drug release respectively. Day 6, students had a theory session on Stability Testing of Pharmaceutical Products, demonstrations of GC and Dissolution apparatus and hands on experience on LOD (Loss on Drying). Dr. Sai Padma, Head, Department of Biochemistry, Bhavan's Vivekananda College of Science, Humanities and Commerce addressed the students and thanked the Pharma Patashala organization for extending their association in enhancing the interest among the students to start their career in research and in pharmaceutical industries. The value-added course was concluded with question-and-answer session followed by distribution of certificates.

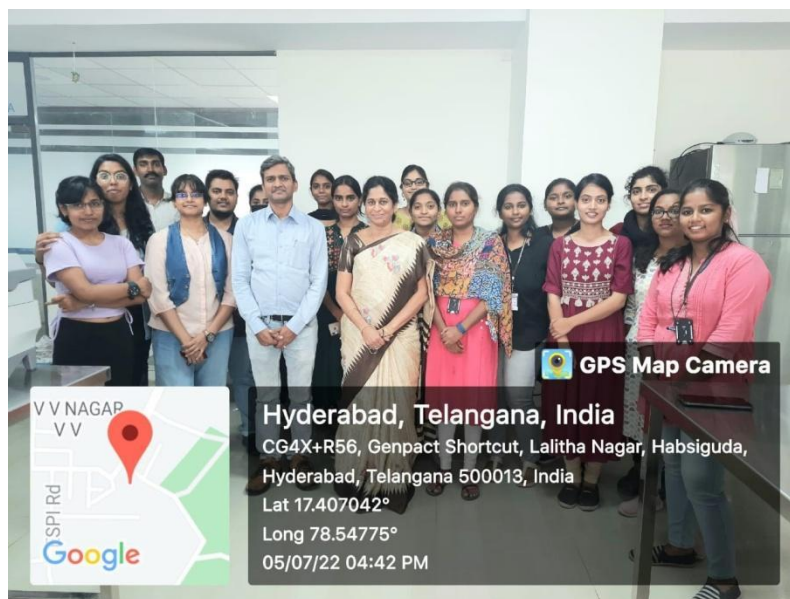
Overall, the value-added course was very informative and educative which has provided the students with theoretical as well as hands on experience on various pharmaceutical techniques.

Department of Biochemistry & Nutrition
One Day Hands on training cum Workshop
on
Polymerase Chain Reaction (PCR)
In collaboration with AgamiGen Biologicals, Habsiguda, Hyderabad

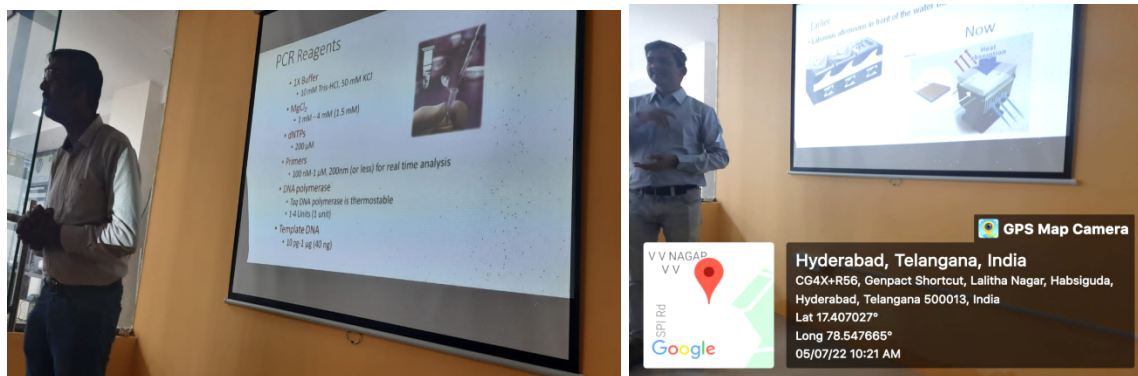
5th July, 2022

The Department of Biochemistry & Nutrition has organized a One-day Hands on training cum Workshop on "Polymerase Chain Reaction [PCR]" for M. Sc II year Biochemistry students in collaboration with AgamiGen Biologicals, Habsiguda, Hyderabad on 5th July, 2022. Total 15 students participated in the workshop accompanied by the faculty.

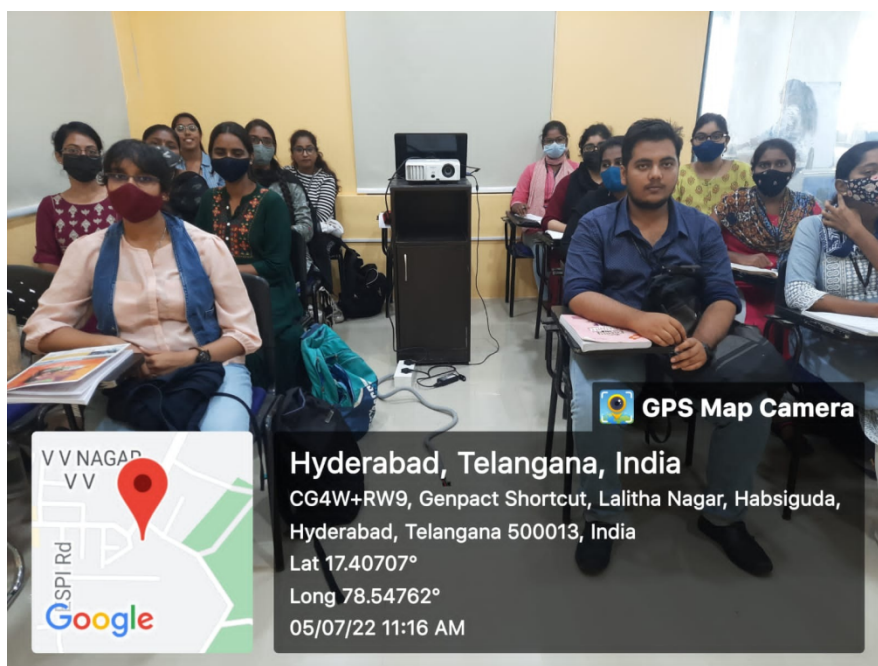
The programme began with a presentation by Dr Vidyasagar Malshetty, Workshop Convenor on various steps involved in PCR, along with the components, reagents, optimal conditions and applications involved in the technique. The students were then taken to the lab for the set-up of PCR reaction. Students were explained in detail about program set up in the PCR machine and amplification of DNA was carried out. Following amplification of the DNA through PCR, the samples were resolved on Agarose Gel Electrophoresis, and the amplified DNA bands were visualised on a UV transilluminator. Overall, the hands-on training was very educative and exposed the students to learn a valuable industrial technique from industry experts and get connected with them. The event concluded with a question and feedback session and the distribution of certificates to the students by Dr Malshetty, Workshop Convenor.



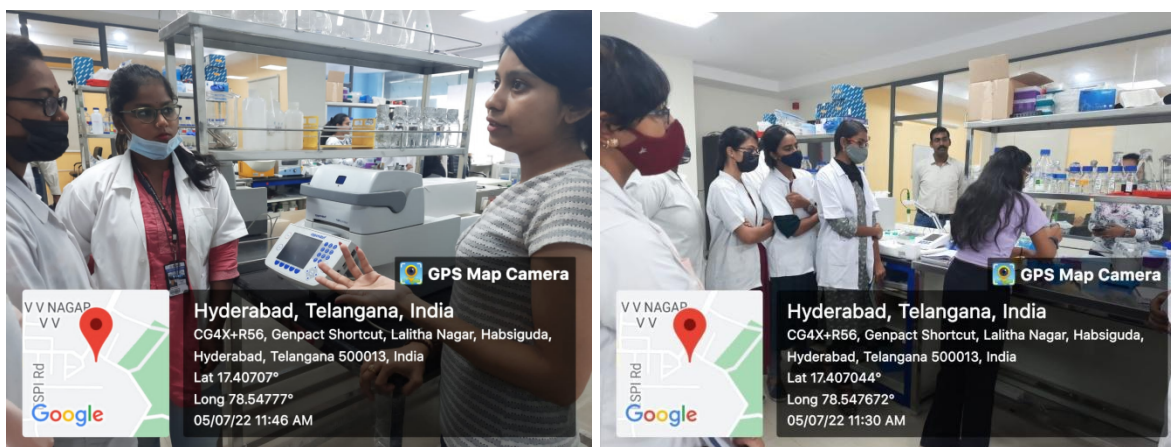
Dr A Sai Padma, Head, Dept of Biochemistry, BVC, and Dr Malshetty, AgamiGen Biologicals with M. Sc Biochemistry students during Hands on training cum Workshop on PCR, 5th July, 2022



Presentation by Industry expert on PCR, Hands on training cum workshop, 5th July, 2022



M. Sc II year Biochemistry students listening to the presentation, Hands on training cum Workshop on PCR, 5th July, 2022



Demonstration of PCR by industry experts, Hands on training cum workshop on PCR, 5th July, 2022



Hands on training experienced by students on PCR, 5th July 2022

Health Camp-2022

6th and 7th of May, 2022

The Medical & Health Committee of BVC in association with Department of Biochemistry organized a health camp for the teaching, non teaching staff and students of BVC on 6th and 7th of May, 2022. The health camp was in association with Vimta Labs, Hyderabad. The list of tests in the health camp included Master Health checkup, Complete Health checkup, Extended Health checkup panel, Diabetic screening profile and Sunshine vitamin screening panel. The health camp also included tests like complete blood picture, HbA1C, fasting blood glucose, lipid profile, thyroid profile, calcium, uric acid, Vitamin D, B₁₂ levels and PCOD profile.

A total of 59 teaching and non teaching staff from the college have got their various parameters evaluated. There were 24 staff members who have got their Master Health Check done. This profile includes all the tests associated with the functioning of the vital organs. While rest of the staff have got tested for profiles like either Complete Health Checkup or Sunshine vitamin screening profile showing their awareness and interest in knowing about their health status. Blood group determination was done for about 303 students and Body Mass Index was calculated for 360 participants that included the staff and students. Overall, the health camp received a very good response from staff and students.



Principal Prof.Y.Ashok with the staff and students of BVC at the Health camp



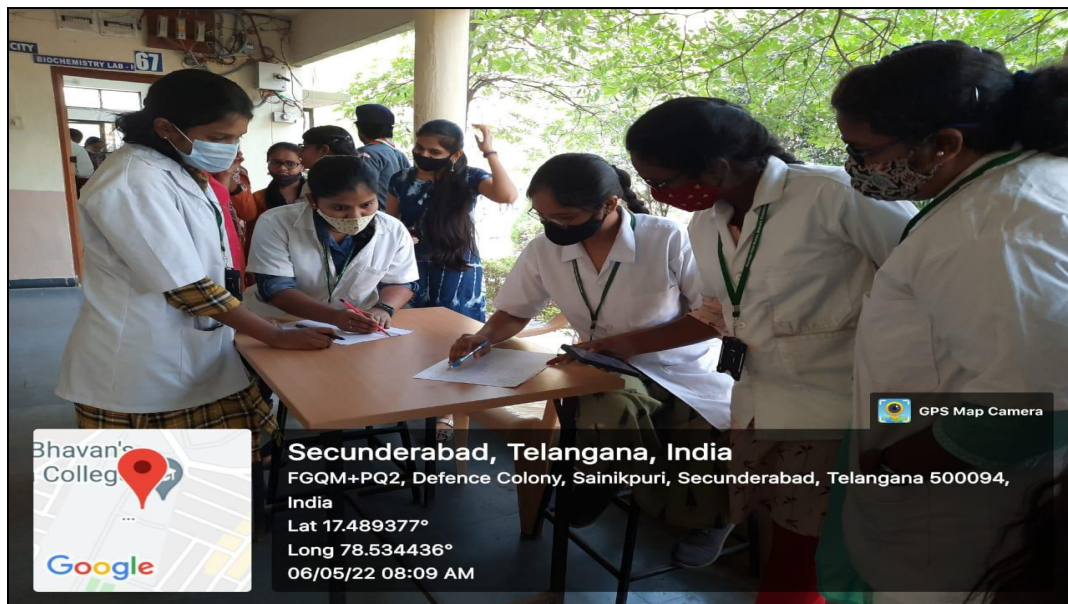
Staff and students of BVC along with the staff of Vimta labs



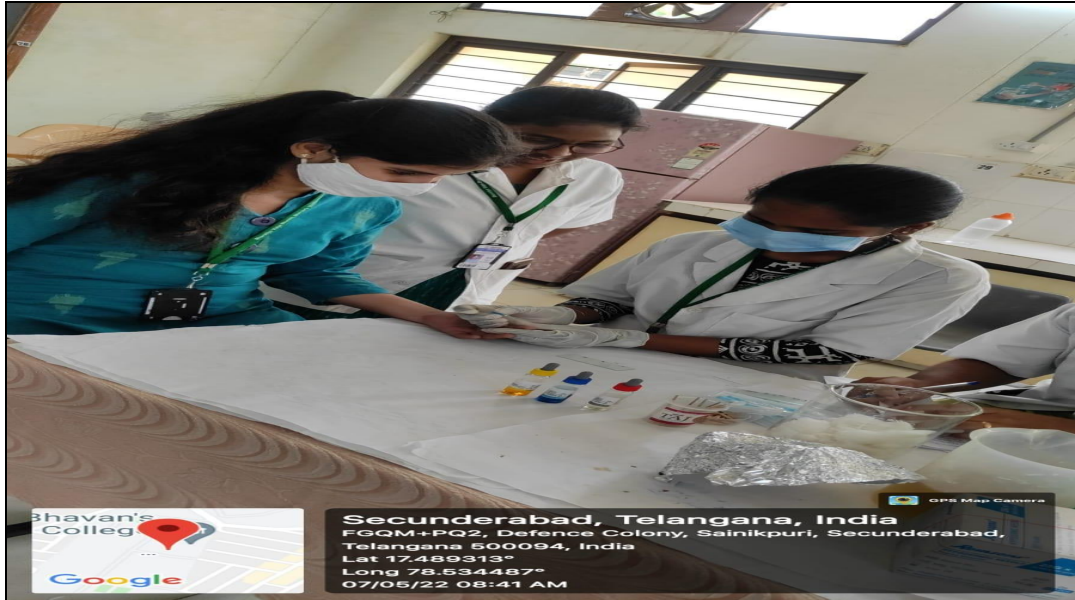
PG students determining the BMI of the Vice Principal Mrs.B. Niraimathi



Dr.A.Sai Padma (HoD) at the camp



PG Biochemistry students calculating the BMI



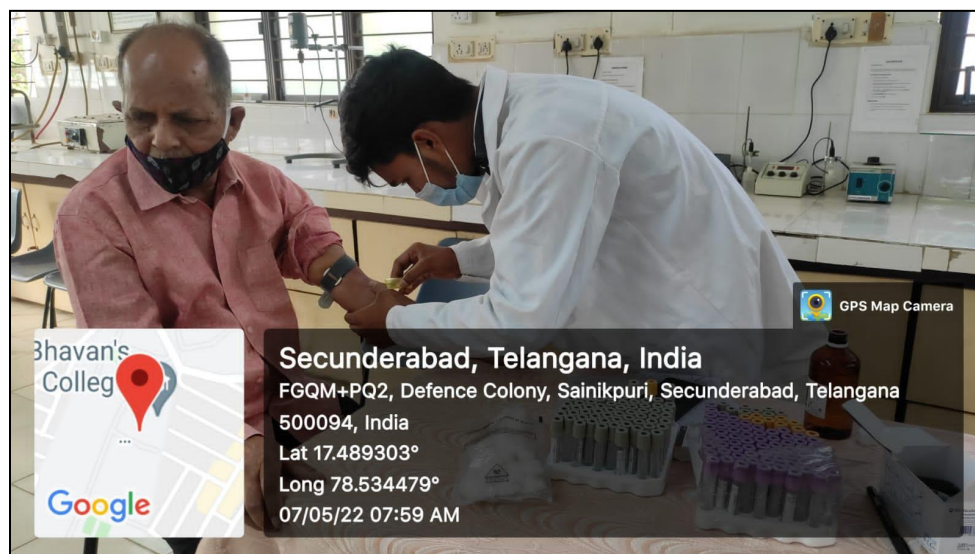
PG Biochemistry students determining the blood group



Students at the camp



Non- teaching staff at the camp



Community participating in the camp

Open day visit to Osmania University

24/03/2022

The Department of Biochemistry organised an educational visit to Osmania University on the occasion of open day on 24/03/2022. Total of 27 students from M.Sc. Biochemistry first semester and third semester along with faculty Dr Manju Devi visited the university.

Initially, students visited the department of Biochemistry. Students were divided into groups and taken to different research laboratories of Biochemistry department. The various research facilities available in the department and the research areas focused on the labs were explained well to the students by the research scholars and postdoctoral fellows in the department. The working principles of sophisticated instruments like bioanalyzer, nanoparticle analyser, fluorescence spectrometer were explained to the students.

Later students visited the Central Facility for Research and development (CFRD). In CFRD, students got an opportunity to explore the sophisticated instruments like Mass spectrometer, Atomic absorption spectrometer etc. The working procedures of the instruments and various research activities conducting in the CFRD were explained to the students by the team.

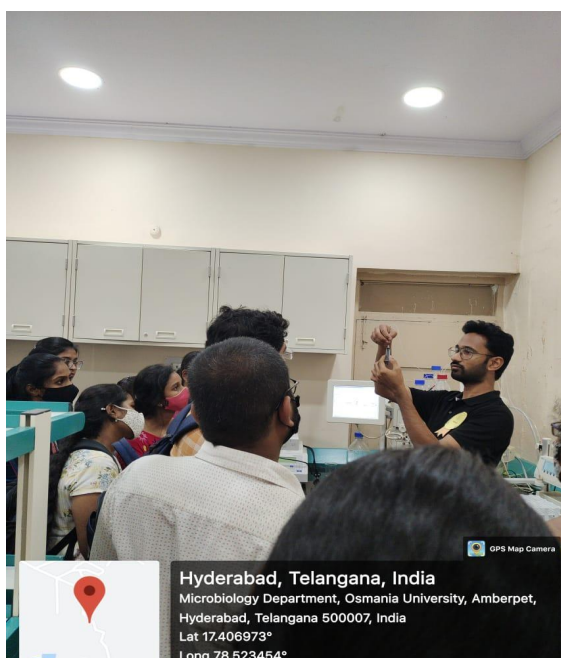
After CFRD visit, students visited department of Genetics and Biotechnology, where different methods of gene sequencing and analysis methods were discussed by the research scholars of the department.

Finally students visited the department of Microbiology, where they could explore an exhibition of different microbial cultures. The various research facilities of the department was also explained to the students.

The visit was useful and students expressed their happiness for a wonderful experience inOsmania university visit.



Visit to Biochemistry department- Students with the Head of the department Dr. Karuna Rupula



Students were detailed about the working of sophisticated instruments



Visit to CFRD- Students with the director of CFRD Dr. Smitha Pawar

Department of Biochemistry
FDP on Advancements in Biochemistry and Allied Sciences
Under DBT-STAR college Scheme
23-27 November, 2021

The Department of Biochemistry organized an online five-day faculty Development program (FDP) on “Advancements in Biochemistry and Allied Sciences” from 23rd to 27th November 2021, in association with FABA academy, Hyderabad as the knowledge partner. A total of 186 faculty from various institutions registered for the FDP. The FDP started on 23rd November with inauguration by virtual lamp lighting followed by inaugural address by Principal, BVC, Sainikpuri, Prof. Y. Ashok, Vice- Principal B. Niraimathi, DBT- Coordinator Dr K. Anuradha, Convenor of FDP Dr. A. Sai Padma, the Chief Guest of inauguration Dr. P.R. Sudhakaran, Asuthosh Mookherjee Fellow, Department of Computational Biology and Bioinformatics, University of Kerala and Guest of Honour Dr Karuna. R, Head & Associate Professor, Department of Biochemistry, Osmania University. The inauguration was followed by the Key Note address by Dr P.R. Sudhakaran on “Beyond molecularization of Biology”. Dr. Sridevi Patnala, Endocrinologist, Apollo Hospital, Secunderabad delivered lecture on Diabetes and Dr Thomas Furst

from Palacky University in Olomouc (Czech Republic) delivered lecture on “Breaking bad: Inappropriate statistics and wrong incentives are ruining medical sciences” on the same day.

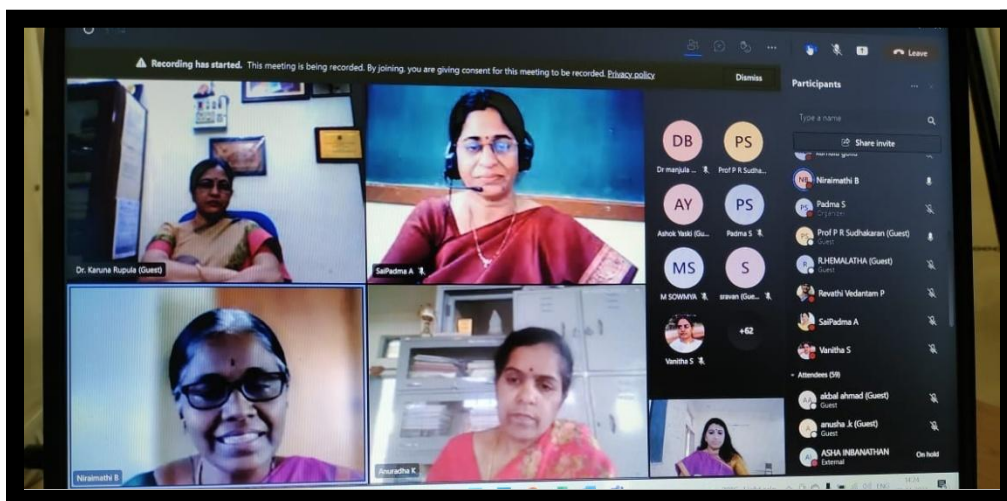
On the second day, Dr Ramesh Athe, Assistant Professor, Department of Data Science and Intelligent Systems (Statistics), Indian Institute of Information Technology, Dharwad, Karnataka, gave talk on Biostatistics and its advances in Health. The second speaker Dr. B Manjula, Associate professor, Dept of Biochemistry, Osmania University spoke on “Proposal writing for funding agencies”. The third speaker, Dr A Sai Padma, Department of Biochemistry, Bhavan’s Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad gave lecture on Biosensors-past and present.

On third day, 25-11-21, the FDP session started with the lecture of Dr P.Hemalatha Reddy, ex-principal, Sri Venkateshwara College, New Delhi, on “Redefining the science teaching in hybrid learning environment”. The second speaker, Prof. Vipin Agarwal, TIFR Centre for Interdisciplinary Sciences (TCIS), Tata Institute of Fundamental Research, Hyderabad, delivered lecture on Solid-state NMR for structural characterisation of proteins”. The third speaker Mr.Adiraju Satyanarayana From Vivekananda Institute of Human Excellence, Hyderabad detailed about “Stress management at work place”. The third day concluded with the talk of Alumnus of Bhavans, Dr. Lakshman Varanasi, Assistant Professor of Biological Sciences, Krea University, Andhra Pradesh on “The measurement of protein abundance using peptide surrogates: addressing a fundamental problem in biomedical science.”

Dr. P. Shyam, Assistant Professor, Department of Biotechnology, National Institute of Technology, Warangal, was the first speaker of day 4 FDP. He delivered lecture on “Trends in sequencing methods”. The next speaker Dr. Akash Ranjan, Staff Scientist and Head, Computational & Functional Genomics Group, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, spoke on “Computational Biology and Bioinformatics Approach to Understand the Biology of Human Diseases”. The last speaker of the day, Prof. P. Sankar Ganesh, Associate Professor, Department of Biological Sciences, BITS Pilani, Hyderabad Campus, delivered lecture on “Nanotechnology as a Double-Edged Sword: Novel Applications and Potential Toxicology”.

Day 5 started with lecture of Dr. Vijayakrishna Karri, Associate Professor, Indian Institute of Technology, Bhubaneswar on topic “Nanomaterials and their applications” Last speaker of 5 days FDP was Dr.Ratnakar, Tech Mahindra, FABAcademy on “AI and its application in health care”, followed by Valedictory function.

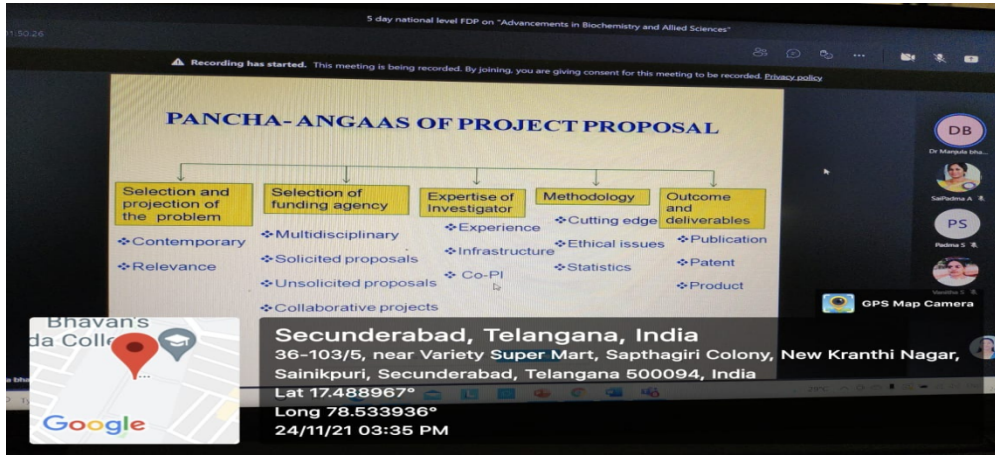
In the valedictory session, Convenor Dr A Sai Padma, presented report of the 5 day FDP. Dr Manjula Bhanoori , Associate professor, Department of Biochemistry, Osmania University, was the Guest of honour and she highly appreciated for the successful conduct of FDP with eminent speakers. Participants also gave feed back of the FDP in the valedictory session and expressed their satisfaction for all useful sessions. The FDP program was very successful with good participation of faculty from all over India. E-certificates were issued to all the participants after completion of the 5 day FDP.



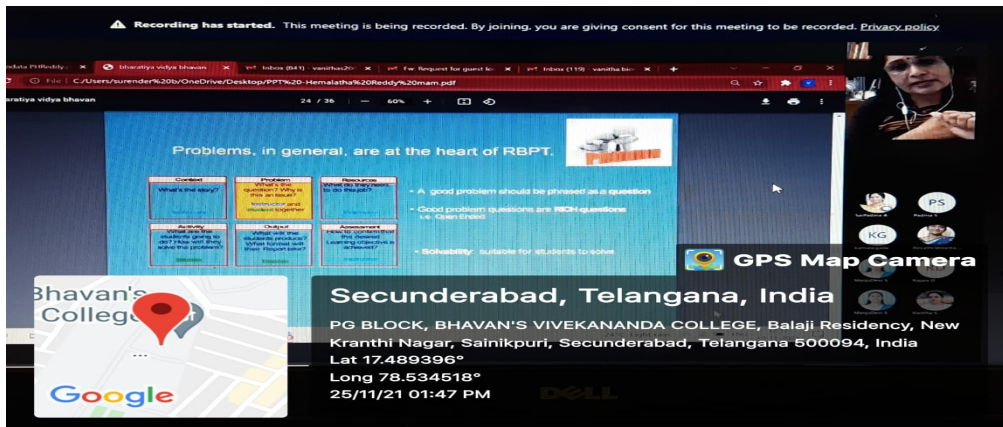
FDP Day 1- Inauguration



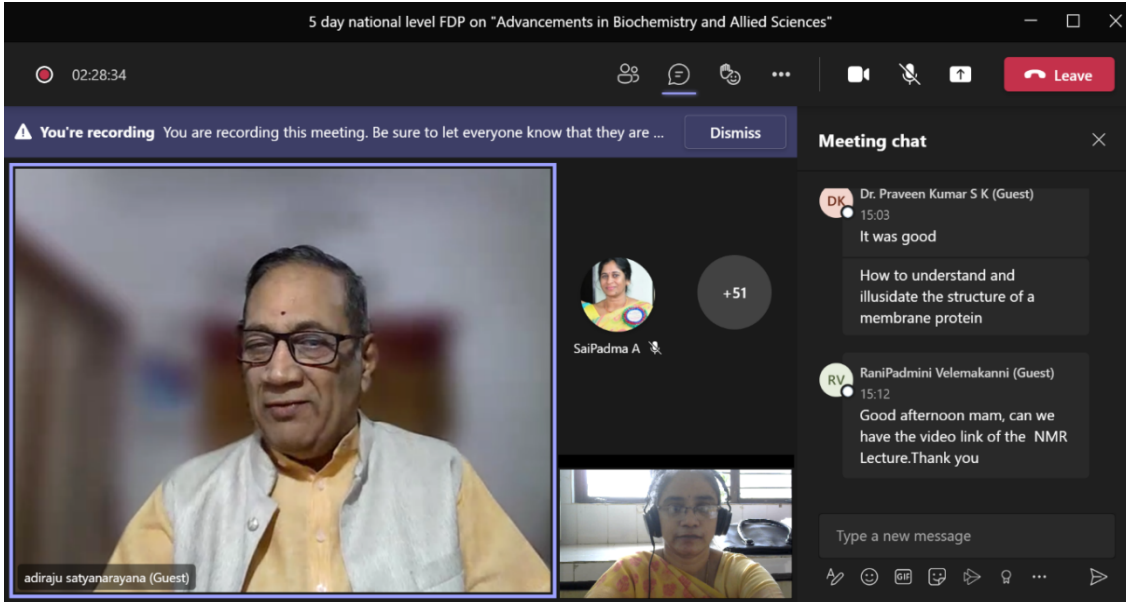
FDP Day 2- Dr Ramesh Athe explaining Biostatistics and its advances in health.



FDP Day 2- Dr Manjula Bhanoori detailing about Proposal writing for funding agencies



FDP Day 3- Dr P.Hemalatha Reddy, speaking on "Redefining the science teaching in hybrid learning environment"



FDP Day 3- Mr.Adiraju Satyanarayana From Vivekananda Institute of Human Excellence, Hyderabad detailed about "Stress management at work place".

Flow of genomic information

DNA replication (DNA → DNA)
DNA Polymerase

transcription (DNA → RNA)
RNA Polymerase

reverse transcription (RNA → DNA)
Rev. Transcriptase

translation (RNA → Protein)
Ribosomes

RNA replication (RNA → RNA)
RNA Dependent RNA Polymerase

(+) Sense RNA

(-) Sense RNA

Protein

GPS Map Camera

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Secunderabad, Telangana, India
FGQM+MPH, New Kranthi Nagar, Sainikpuri,
Secunderabad, Telangana 500094, India
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Long 78.534392°
26/11/21 03:18 PM

FDP Day 4- Dr. Akash Ranjan explaining on "Computational Biology and Bioinformatics.

Trends of emerging contaminants

The slide displays a line graph showing the 'Level of Concern' (Higher to Lower) from 1960 to 2030 for various contaminants. The x-axis represents years (1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030). The y-axis represents the level of concern. The legend includes: Pesticides, Cryptosporidium, Nanomaterials, Halonitriles, Bromates, Trifluoromethane, and EDC/PPCPs. The graph shows that Pesticides, Cryptosporidium, and Nanomaterials have high concern levels starting in the 1960s-1980s. Halonitriles, Bromates, and Trifluoromethane show increasing concern starting around 2000. EDC/PPCPs show a sharp increase in concern starting around 2010, reaching a peak by 2030. A red circle highlights the EDC/PPCPs line.

GPS Map Camera

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 Secunderabad, Telangana 500094, India
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FDP Day 4-Prof. P. Sankar Ganesh, delivering lecture on “Nanotechnology as a Double-Edged Sword: Novel Applications and Potential Toxicology”.

5 day national level FDP on "Advancements in Biochemistry and Allied Sciences"

01:16:01 Request control

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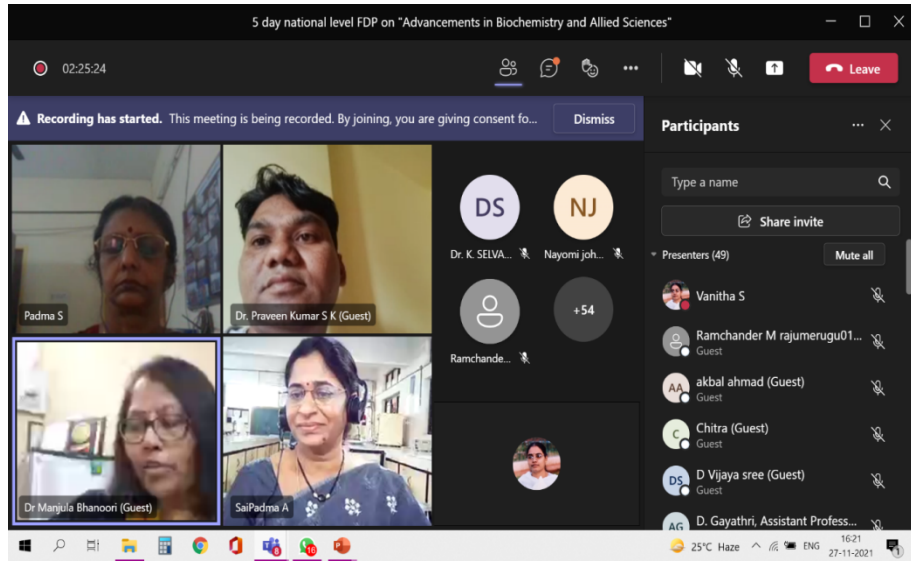
Artificial Intelligence in Life Sciences
DR. P. RATNAKAR

Ratnakar Palakodeti

SaiPadma A +58

28°C Partly sunny 15:11 27-11-2021

FDP Day 5- Dr.Ratnakar, speaking on “AI and its application in health care

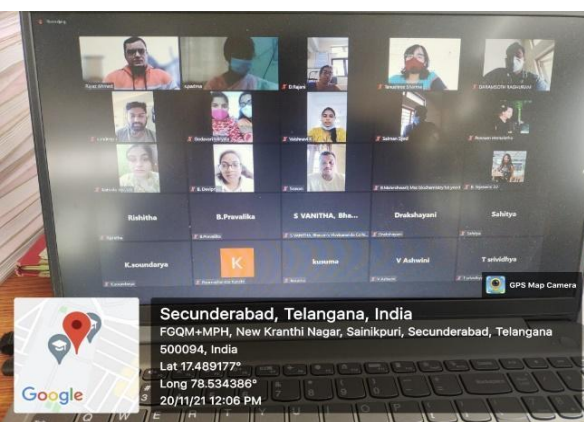
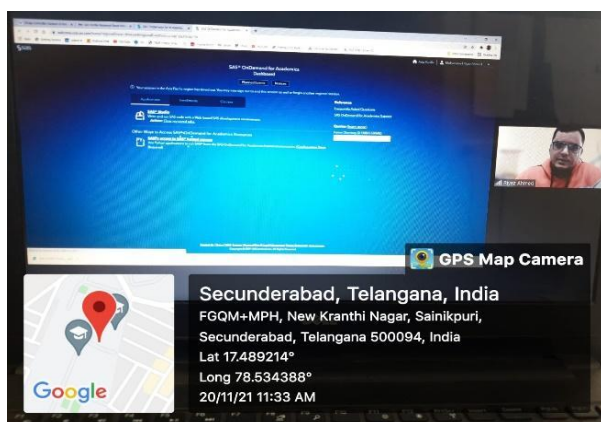
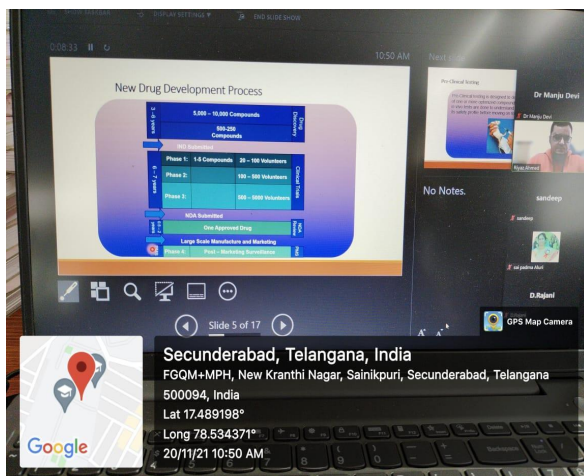
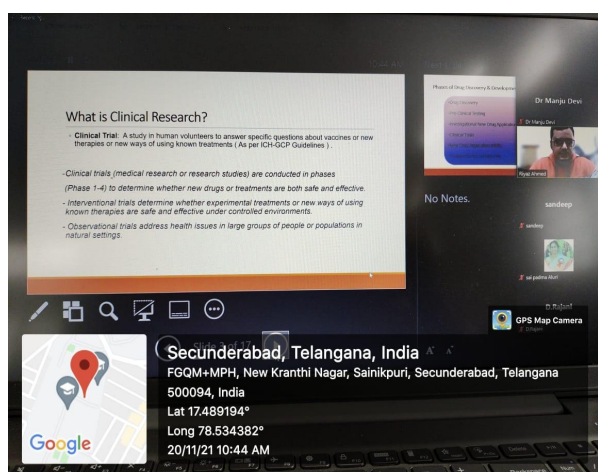


FDP Day 5- Vaedictory session- Dr Manjula Bhanoori was the Guest of Honour Webinar

“Overview of Clinical Trial Process & Job Opportunities In Clinical Trial Industry”

20th November, 2021

The Department of Biochemistry organised a half day on line interaction session of M.Sc (Biochemistry) students with an alumnus student, Mr,Riyaz Ahmed (2007-09) on providing awareness of the opportunities available to the students in the area of clinical research. Mr. Riyaz is a senior statistical programmer working with Paraxel Limited, Hyd. During his interaction, Mr Riyaz provided a detailed explanation on the different phases of clinical research including a) Phases of drug discovery and development b) new drug development process and c) Pre clinical setting. He explained the various procedures and proforma needed for submitting the preclinical trials data, the role of data management and statistical programming in clinical research. He also advised the students on the availability of job opportunities as site coordinator, clinical research associate, project assistant, lab coordinator, statistical programmer in the areas of Medical imaging and clinical data management.



Department of Biochemistry

2021-22

Educational visit to Vimta Labs, Hyderabad

The Department of Biochemistry organised an educational visit to Vimta Labs, Cherlapally, Hyderabad, one of the leading clinical research company (CRO) in India on 18th November 2021. Total of 35 students from M.Sc. Biochemistry second semester along with two faculty Dr A Sai Padma (HOD) and Dr Manju Devi visited the lab.

In Vimta labs, students were briefed about the facilities available, research and development services that they provide to global companies. Students were divided into groups and taken to different laboratories.

In the histopathology lab, the importance of tissue sectioning and histopathology in disease diagnosis were explained and the procedures involved in tissue sectioning were demonstrated. In the clinical microbiology lab, details about various microbial cultures and the use biosafety cabinet in handling microbial cultures were explained. Later, the various steps involved in sample collection and sample accession numbering and storage of samples were explained and demonstrated.

In Biochemistry and immunochemistry labs, advanced high throughput automated analysers were shown to students and the advantages of autoanalysers over manual methods were explained in detail. Various immunoassays and the equipments used for assays were also explained in detail.

The visit was useful and students expressed their happiness for a wonderful experience in Vimta labs.



INDUSTRIAL VISIT 2021-22

Educational visit to Vimta Labs, Hyderabad BSc II and III year MBBCC Students 17th November, 2021

The Department of Biochemistry organized an educational visit to Vimta Labs, Cherlapally, Hyderabad one of the leading CRO (Clinical Research Company) in India under DBT Star College scheme on 17th November, 2021. Total of 34 students from second and third year of B.Sc MBBCC were accompanied with two faculty Mrs. D. Rajani and Mrs. S. Vanitha.

In Vimta labs, students were briefed about the facilities available, research and developmental services that they provide to global companies. Students were divided into groups and taken to different laboratories.

In the histopathology lab, students were explained and demonstrated about tissue processing steps, fixing the specimen in paraffin wax block and slicing the specimen up to 3 or 5 microns thick using a microtome and then staining. In the clinical microbiology department, students were explained about the working principle of BACTEC-9050 used to process blood culture and BACTEC MGIT-960 which detects presence of mycobacteria in the samples. Later, students were explained about role of accessioning department in receiving the samples with their appropriate conditions, sorting and entering the data in the Laboratory Information system.

Finally in the biochemistry and Immunochemistry department, students had the opportunity to know about the use of highly automated high throughput machines that were used for performing various clinical parameter analysis. Few are Immulite 2000 used to screen the maternal markers during the first trimester to check for abnormality in the foetus, Centaur XP used for immunoassays. Beckman Coulter DXL 800 to screen samples of infertility individuals, Atellica used to perform biochemical parameters and immunoassays. Clinical pathology section students were explained about ACL TOP and Tosoh G11 to determine blood coagulation factors and haemoglobin variants respectively. TORCH (Toxoplasmosis, Rubella, Cytomegalovirus, Herpes Simplex and HIV) testing using DiaSorin and FACS, Karyotyping and FISH were explained.

Students expressed their happiness for having an enriching and knowledgeable experience at Vimta Labs.





World Diabetes Day-2021

The world Diabetes Day is celebrated on 14th November of each year. Established in 1991 by the International Diabetes Federation with support from WHO in response to growing concerns about the health and economic threat posed by diabetes. World Diabetes Day became an official UN day in 2006. “Access to Diabetes Care” is the theme for World Diabetes Day 2021. To mark this occasion, the Department of Biochemistry, Bhavan’s Vivekananda College of Science, Humanities and Commerce under the DBT -Star college scheme and Science club Activity has organized activities on 15th November, that included,

- Awareness Rally by the students and staff.
- e-Lecture on “Diabetes-Prevention and management”: 2.30-3.30pm Dr. K. Srinivas Rao, Diabetologist.
- Students’ e-Poster presentation on “Know About Diabetes”: 3.30-4.30pm.

There was a huge participation of nearly 200 students and faculty which included NCC, NSS wings and others. The rally started from the college premises at 1.30 pm to Neredmet cross roads and back to college to bring awareness about Diabetes in the community around. An e-lecture

on “Diabetes- Prevention and Management” was delivered by Dr.K.Srinivas Rao, Diabetologist. The lecture was well received by the audience.

The program ended with e-poster presentation on “Know about Diabetes”. Total 29 posters from students of undergraduate and post graduate programs participated in the competition. The program was a grand success with good awareness programs.





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500094, India
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37, Neredmet - Sainikpur X Rd, Sri colony, A. S. Rao Nagar,
Secunderabad, Telangana 500056, India
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Dismissing

Dr. urushvas rao (Guest)

GPS Map Camera

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 Telangana 500094, India
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World Diabetes Day-2021

01:42:48 Request control Leave

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Participants

Type a name

Share invite

- Keerthana G (Guest)
- ManjuDevi S
- Padma S
- Parama C (Guest)
- Pooja Swain-036 (Guest)
- Rajani D Organizer

2M +36

PS Pooja Swain-036 (Guest)

Rajani D

KNOW ABOUT DIABETES

TYPES

TYPE 1: also known as juvenile onset diabetes or insulin dependent diabetes. There is sudden onset in the younger onset in the younger age group.

TYPE 2: adult onset diabetes, it is also called non insulin dependent diabetes, it is the most common form of diabetes and develops slowly and is usually under some degree of control.

DIABETES means "to thirst". Diabetes mellitus is a chronic metabolic disorder that affects the body's ability to regulate the blood glucose concentration in carbohydrates and fats.

DIABETIC DIET PLAN

Food plays an important role and when plan get a 50% success.

28°C Light rain 16:20 15-11-2021

World Diabetes Day-2021

01:49:22

Request control

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Participants

Type a name

Share invite

Rajani D Organizer

Revathi Vedantam P

SaiPadma A

Attendees (26)

Mute all

28 Naroju Rajini Mbic (Guest)

- SAI AASHRITHA (MNDC) (G...)

04 Poojitha MBIC (Guest)

Rajani D

Microsoft Teams is using the webcam

01:10:08

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Participants

Type a name

Share invite

Presenters (11)

Mute all

Rajani D Organizer

Dr srinivas rao (Guest)

Dr.Chinnapa reddy (Guest)

kamala golla

Madhu Sudhan (Guest)

ManjuDevi S

Padma S

Revathi Vedantam P

DR TS EJ +40

Dr.Chinnapa... Tanushree S... Enoch John ...

Dr srinivas rao (Guest)

SaiPadma A

Revathi Vedantam P

Vanitha S

ManjuDevi S

Page: 3 of 3 Words: 0 English (United States)

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15:50 15-11-2021

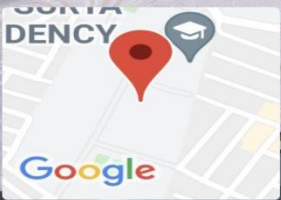
Free Medical Camp

30-10-2021

Medical & Health Committee along with the Department of Biochemistry, NSS Unit, Scouts and Guides of BVC organized a free medical camp for the teaching and non teaching staff on 30th October, 2021. The free medical camp was organized in association with Dhanavantari Hospital, Temple Alwal, Secunderabad. The test included Bone mineral testing, Random blood glucose testing and consultation with Diabetologist and General physicians. The camp received a huge response with 143 members participating and utilizing the health services. There were 122 staff members and 21 members from the community around the college. The camp started at 10.00 am in the morning and continued till 1.00 pm.

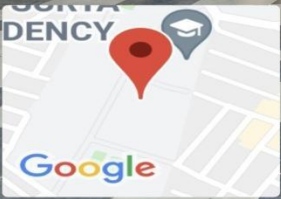
The free medical camp received a good response and was well appreciated by the staff and community who participated.





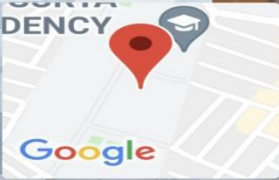
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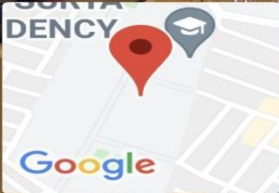
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500094, India
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Department of Biochemistry
Value Added Course
Institute of Genetics & Hospital for Genetic Diseases, Osmania University
Begumpet, Hyderabad
on
Clinical, Molecular Diagnostic Methods and Genetic Counselling
4th, 5th, 7th, 8th & 11th October, 2021 (2021-22)

The Department of Biochemistry has organized a five-day Value-added course on “Clinical, Molecular Diagnostic methods and Genetic Counselling” for the second and final year students of B. Sc (MBBCC) in collaboration with Institute of Genetics and Hospital for Genetic Diseases from 4th, 5th, 7th, 8th & 11th October, 2021. This course was organized under DBT- Star College Scheme for the benefit of undergraduate students. Total of 28 students have got trained in this program. The areas covered during the course was Clinical Genetics, Cytogenetics, Environmental Toxicology, Molecular Biology, Clinical Biochemistry and Genetic counselling.

The value-added course started with briefing about Institute by Dr. Sri lekha, in identifying the patients with any genetic defect and provide further counselling.

In the Clinical Genetics division, students were made to be aware about the various prenatal diagnostic methods, importance of pedigree analysis for the purpose of Genetic counselling to the patients who may have a prehistory of genetic diseases. Students were explained about Tissue Engineering, Nano Robotics, Applications of biotechnology in medical fields, Prenatal disorders, Invasive and Non-invasive prenatal testing and its diagnosis. Reasons responsible for autoimmune diseases (Rh incompatibility, Diabetes mellitus, congenital heart diseases) were covered. Students had been upskilled with various diagnostic parameters for many syndromes and disorders as well- like microarray, exome sequencing, [Biochemical screening, Double marker combined screening, quadruple marker test done in first trimester and h-hCG in second trimester]

Dr. B. Vijaya Lakshmi, explained about the Wilson disease and protein associated with it. Wilson disease protein is associated with ATP7B gene located on human chromosome 13, consisting 21 exons. ATP7B gene provides the instructions for making a protein called copper transporting ATP2. If this is produced less than normal, it lowers the level of ceruloplasmin. She also taught about the Globin variants present in haemoglobin from embryonic stage to adult stage.

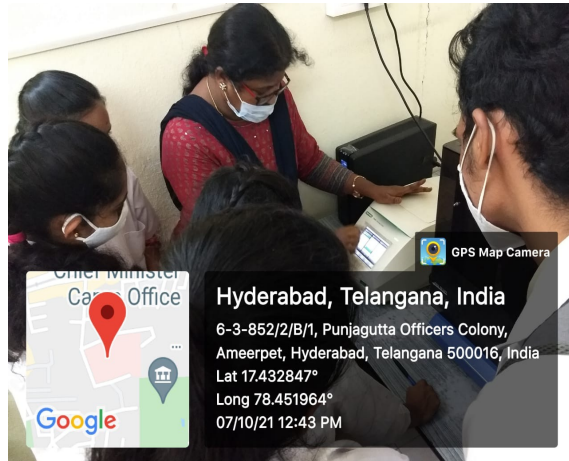
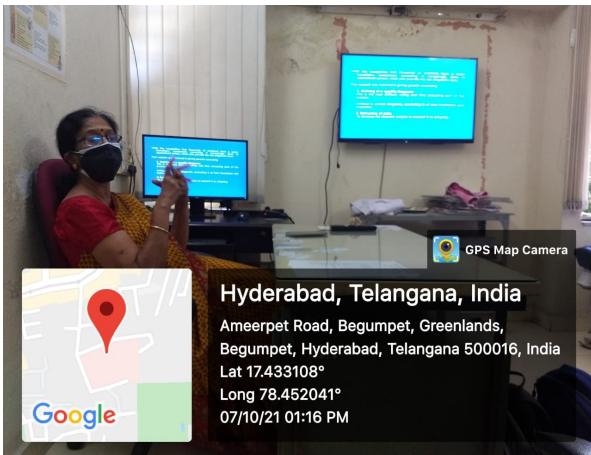
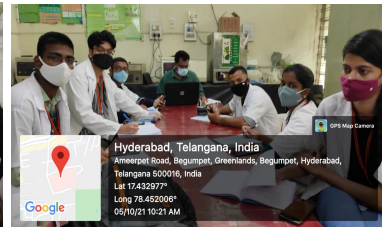
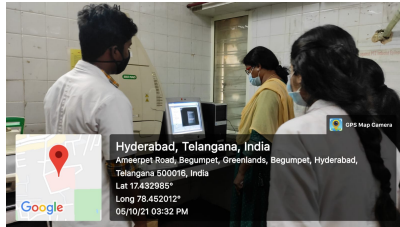
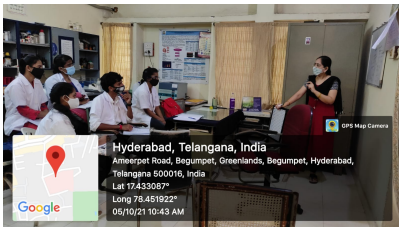
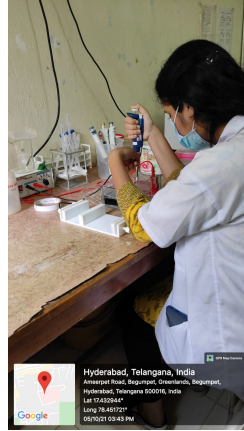
Dr. Deepika from Department of Molecular Biology had explained the kinds of diagnosis to be done before concluding the type of syndrome. Ma'am mentioned the two ways of molecular diagnosis as Qualitative (done to check if the patient is either positive or negative to the test done) and Quantitative diagnosis (described both diagnostic and therapeutic molecular imaging like Single nucleotide polymorphism, etc). In the Molecular Biology division, isolation of DNA was done with blood sample of students and the isolated DNA was separated using Agarose gel electrophoresis in the toxicology division.

In the cytogenetics division, students were made to understand about the methodology and the importance of karyotyping, FISH and Spectral karyotyping in detecting chromosomal abnormalities. The course was highly informative and educative.

No of Students: 28 (BSc II and III-year MBBC)

No of Faculty members: 05





RashtriyaPoshanMaah Celebrations-2021

“Holistic Nutrition for Healthy Nation” Converging towards a healthy walk through life Under DBT Star College Scheme

23rd & 24th September, 2021

The Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, for Nutrition & Dietetics, organized a two-day National e-Seminar to celebrate the Rashtriya Poshan Maah Celebrations-2021. The event also commemorates the 75th Independence year “Azadika Amruth Mahotsav”. The seminar was organized under DBT-Star college scheme and is to create awareness among students to highlight the importance of nutrition in the maintenance of health, growth and development during different stages of life and also for the prevention and treatment of diseases. There was a good response with a participation of 302 students and faculty from various institutions all over the country.

On the first day of the seminar the key note address was delivered by Dr. Sridevi A Singh, Director, CSIR-CFTRI, Mysuru, Karnataka and spoke on the theme of the e-Seminar **“Holistic Nutrition for Healthy Nation” Converging towards a healthy walk through life**. She has emphasized on the importance of agriculture, importance of nutraceuticals, personal nutrition, effects of anti-nutritional factors, protein digestibility and amino acid score of common food proteins, harmful effects of highly processed foods and also stressed upon the fact that how nutrition can revert back illnesses and deficiency disorders. Dr. Sridevi emphasized that deliberations during the seminar should reach the common public by information dissemination through academicians, R&D scientific panels and most importantly through young students, researchers and budding entrepreneurs.

In the Technical Session-I, Dr. Srijaya, Associate Professor, Food & Nutritional Sciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi spoke on “Fetal programming and

developmental origins of adult disease”. She stressed upon the importance of preconceptual nutrition for preparing towards healthy pregnancy.

In the Technical Session-II, Dr. M. Nagalakshmi, Senior Medical Officer, Nature Cure Hospital, Hyderabad spoke on “Influence of Yoga for Holistic Health”. She stressed on the importance of physical activity and different yogasanas in maintaining a healthy life. The afternoon session had presentation of research based e-posters which were presented by the participants.

The second day program on 24-09-21 started with an event on 3-5 min short video on “Low cost nutritious recipe for pregnancy”. There was a good participation of students from various colleges.

In the Technical Session-III Prof. Vijaya Khader (Rtd), Former Dean Faculty of Home Science, Acharya N. G Ranga Agricultural University, Hyderabad, delivered a lecture on “Role of Nutrition in Building a Healthy Nation”. She has highlighted on various ways in obtaining good nutrition and emphasized its importance in elevating the health status of an individual.

The Technical session-IV was followed with a lecture by Dr. Uma Chitra, Faculty (M.Sc. Applied Nutrition), ICMR – NIN, Hyderabad on “Nutrition during Adolescence”. She spoke on the significance and importance of nutrition during different stages of adolescence and urged on the importance of implementing daily physical activity along with optimum nutrition. This session was followed by Onsite fireless cooking competition where their-house students prepared different recipes highlighting the nutritional significance of each. In the last session, there was an e-poster presentation on yogasanas for specific ailments. The participants presented posters highlighting the significance of particular yoga poses which can treat certain diseases and this event received a very good participation.

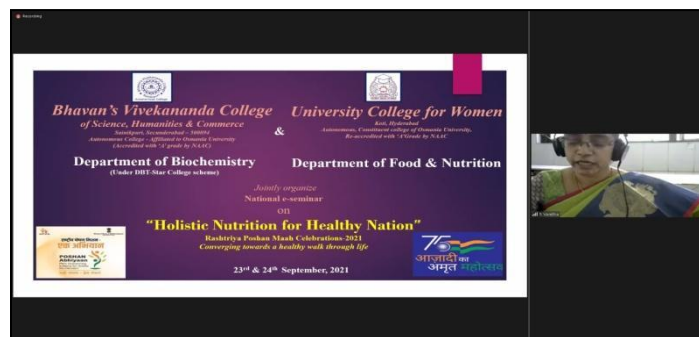
The program on second day concluded with a valedictory function chaired by Prof. BalaKishan, Dean, Faculty of Science, Osmania University, Professor of Geography, Hyderabad. All the

competitions were judged by experts in the specific areas who encouraged the students for their active participation. Winners of all the events were declared in the valedictory and were awarded the e- certificates.

The national seminar was a grand success with very informative and enriching sessions and was received with great enthusiasm by the participants all over India.



Address by Sri.D.Prabhakar Rao chairman, BVB, Sainikpuri Kendra



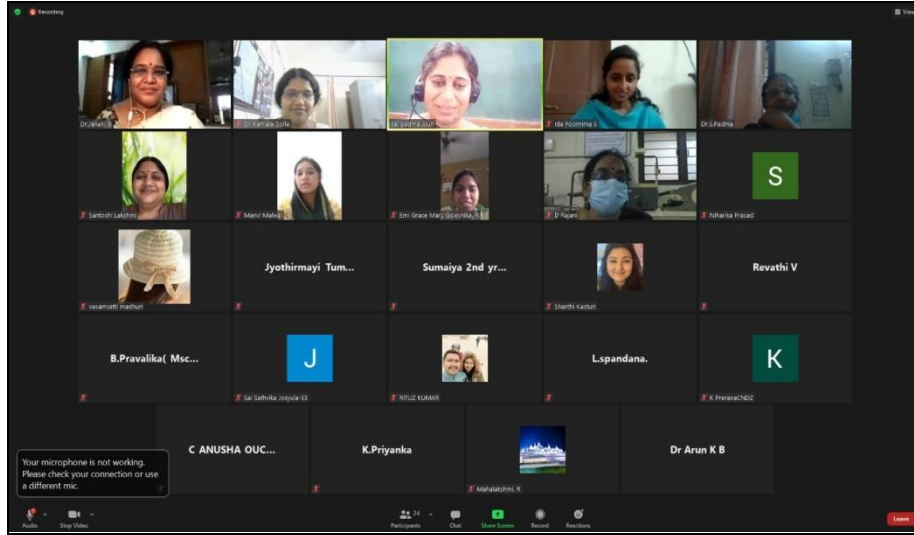
Opening remarks by Mrs.S.Vanitha at the inauguration of the national seminar

PROGRAMME SCHEDULE		DAY 2 : 24 th September,2021	
DAY 1 : 23 rd September,2021		Zoom	
9.45 am - 10.15 am	Inaugural Session	9.30 am - 10.30 am	Short video presentation on "low cost nutritious recipe for pregnant women"
10.15 am - 11.15 am	Key note address Dr. Sridevi A Singh Director, CSIR-CFTRI, Mysuru, Karnataka, India	10.30 am - 11.30 am	Technical Session I Prof. Vijaya Khanna Former Dean Faculty of Nutrition, Hyderabad, Telangana
11.15 am - 12.00 noon	Technical Session I Dr. Srijaya, Associate Professor, Food & Nutritional Sciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, A.P	11.30 am - 12.30 pm	Technical Session IV Dr. Uma Chitra, Faculty (M.Sc. Applied Nutrition), ICMR - NIN, Hyderabad, Telangana, India
12.00 noon - 12.45 pm	Technical Session II Dr. M. Nagalakshmi, Senior Medical Officer, Nature Cure Hospital, Hyderabad	12.30 pm - 1.30 pm	"Nutrition during Adolescence"
1.00 pm - 1.30 pm	"Foetal programming"	1.30 pm - 2.00 pm	e-poster session on Yogasanas
1.30 pm - 2.00 pm	LUNCH BREAK	2.00 pm - 3.00 pm	LUNCH BREAK
2.00 pm - 2.30 pm	e-poster Presentations	3.00 pm - 3.30 pm	Onsite fireless cooking competition
2.30 pm - 3.00 pm	e-poster Presentations		Venue: 257, Ministry Block corridor, Puttaparthi
	Awards		Valentory

Convenor, Dr.A.Sai Padma, giving the convenor's message



Keynote address by the chief guest, Dr.Sridevi.A.Singh, Director, CSIR-CFTRI, Mysuru, Karnataka



Faculty and participants at the inaugural programme

Development of Tailor-made Nutritive Multigrain Extruded Product and Multipurpose Foods
 D. Pratyusha & T. Jyothirmayi
 CSIR - Central Food Technological Research Institute, Resource Centre, Hyderabad -500097, Telangana, India
 Email: jyothirmayatech@ict.res.in; pratyusha1@gmail.com

OBJECTIVE & IMPORTANCE
Objective: To develop tailor-made Nutritive Multipurpose Foods from Multigrain Extruded Product.

Methodology:
 This study was carried out to explore the possibility of using extrusion technology to produce nutritionally enriched instant soup mix and warming food from a multigrain composite flour. The standardized blend consisted of a mixture mixture of Flour of Finger millet, Little millet, Foxtail millet, Proso millet and Kodo millet along with Cow Pea, Green Gram and Cow ghee. This flour was conditioned and was developed into an extruded product with improved digestibility and minimal preparation time. Optimized parameters were found moisture 10%, screw speed 19-21 rpm and barrel temperature 150-160°C. The instant instant soup mix powder was prepared by blending optimized extruded multigrain flour 66.5%, dehydrated carrot 14%, dehydrated green peas 4%, instant powder 4%, salt 3%, black pepper 3% and citric acid 1.5% (w/w). The instant powder mix was made by blending optimized extruded multigrain flour 73.0%, sugar 22% and cashewnut 4.4% (w/w) organoleptically acceptable product.

Ingredients:
 Fresh raw material of the multi millet mix (Finger millet & proso treated under extrusion), Milled flour (milling & conditioning of flour to raise the moisture content to 30% by adding water), Extruded for 30 min, in extruder under extrusion cooking using 100% single screw. The best extruded product is used to make instant soup mix and instant powder mix.

Instant Powder Mix
 Manufacture product was made by mixing all ingredients. Packaged in metallized polyester polyethylene pouches.

Instant Soup Mix
 Manufacture product was made by mixing all ingredients. Packaged in metallized polyester polyethylene pouches.

Nutritional Information (approx.) per 100g

	ISM	IPM
Energy	387.60	265.94
Moisture	6.55	1.89
Protein	56.61	68.89
Protein	12.98	14.66
Fat	1.1	1.68
Ash	2.35	1.84
Crude Fibre	1.12	2.65
Polysphenols	1834.1	356.02
mg	29.6	26.53
Calcium	765.54	287.42
Phosphorus	385.24	257.42
g-ascorbic	18.25	

DPH Activity and **ABTS Activity** graphs showing antioxidant activity over time.

CONCLUSION
 The overall sensory quality of study to serve palatable instant soup powder prepared by mixing the soup mix (20 g) in hot water (80 g), cooking for 3-5 min, which showed a score of 8.9 even after three months of storage, and that of the powder mix was prepared by mixing powder mix powder (30 g) in hot water (70 g) cooking for 3-5 min, showed a score of 8.5 even after three months of storage.

Results & Discussion:
 The developed instant instant soup mix was found to be rich in Protein (12.98%), Carotene (18.71 mg/100g), Fiber (3.38%), Calcium (765.54 mg/100g), Iron (29.6 mg/100g) & Phosphorus (183.24 mg/100g).

Conclusion:
 *The developed instant instant soup mix was found to be rich in Protein (12.98%), Fiber (3.38%), Iron (29.6 mg/100g) & Phosphorus (183.24 mg/100g).
 *Considering the nutritional values of the two products and the ease of preparation, these foods are recommended for adolescents, pregnant and nursing mothers and older people; can also be used as general diet supplement.

References:
 * Mahesh AK, Jind PP. 2014. Extrusion processing as physical and chemical preservative of *Campylobacter* spores. Journal of Bioscience Engineering and Technology.

Research based e-poster presentation

Guest Lecture

22nd June, 2021

As a part of the science club activity, the department of biochemistry organized a guest lecture on ***“Role of Nutrition for Prevention, Management and Recovery in COVID-Need for Customization”*** under DBT - Star College Scheme. The lecture was delivered by Dr.P.Janaki Srinath, Asst Professor, Department of Foods & Nutrition, College of Community Science, Professor Jayashankar Telangana Agricultural University. The lecture was aimed to reach out to the entire community as it was a topic required in the present pandemic situation where, nutrition is playing a vital role in boosting the immunity. Dr.Janaki spoke about nutritional requirements in people who are with comorbidities and are at greater risk of acquiring COVID-19 infections. She explained about how to build immunity of the body which takes time and effort. She differentiated between sufficient and optimal quantities of various micronutrients and the requirement of micronutrients that increase in the body during the COVID-19 infections. She also highlighted on the dietary management during the diseased condition and gave an insight into the immune boosting micronutrients. It was an interesting and informative lecture were, queries from the students and faculty were answered by the speaker.

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IMMUNITY

- Building strong immunity takes time and effort
- Start today.
- Our country is world second largest populated in the world
- Minimal infrastructure...
- Citizens role is paramount.....

SaiPadma A. [Microphone icon]

JS [Microphone icon]
Janaki Srinath (...)

Vanitha S [Microphone icon]

RD [Microphone icon]
Rajani D [Microphone icon]

+56


PS

PROTEIN : GOOD QUALITY IN DEFINED QUANTITY

Protein Deficiency → Negative Nitrogen Balance → Sarcopenia → Deteriorates Immunity

High Protein Sources (Veg)


It is important to consume at least 1 serving of protein in each meal.



Thick Dal/ pulses like Moong, Rajma, Chole	Soya bean/ soy chunks
Protein/100gm = 21 g	Protein/100 gm = 21 gm
Protein/ serving (30 gm) approx. 1 katori dal/ pulse preparation = 6.3 g	Protein per serving (30gm) = 6.3 gm

High Protein Sources

It is important to consume at least 3-4 servings of milk and milk products each day.




1 cup (150ml) Cow's Milk	1 cup (150ml) Buffalo Milk	1 cup (100g) Paneer
Protein per 1 cup = 4.89 g	Protein per 1 cup = 5.52 g	Protein per 1 cup = 18.86 g

High Protein Sources (Non-veg)

Protein from Non-vegetarian sources have high biological value.

It is important to consume at least 1 serving of protein in each meal.




Chicken breast (palm size piece)/ Two palm size drumsticks without bones	Egg	Fish
Protein/ 100gm = 13.4 g	Protein per 100gm = 20 g	Protein per 100gm = 20 g
Protein per 100g serving of chicken = 20 gm	Protein per serving approx.50gm/ 1 egg = 6.5 gm	Protein per serving (approx.200gm) Big piece = 40gm
		Protein per serving (approx.140gm) Medium piece = 28gm
		Protein per serving (approx. 70gm) Small piece = 14gm


Janaki Srianth (Guest)


 JS
 Janaki Srianth (...)
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 Vanitha S
 Vanitha S
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 ManjuDevi S
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 Dr. Kamala ...
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 Sandeep Ra...
 Sandeep Ra...
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 +59


 PS

Healthy Fats


Omega-3 fats are essential fats since the body can't make them from scratch but must get them from food. Foods high in Omega-3 include fish, vegetable oils, nuts (especially walnuts), flax seeds, flaxseed oil, and leafy vegetables.

Eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) come mainly from fish, so they are sometimes called marine omega-3s.




Mackerel 100gm gives 0.26g of DHA and 0.27 g of EPA	Salmon 100gm gives 1.19 g of DHA and 0.4 g of EPA	Tuna 100gm gives 0.53 g DHA and 0.09 g EPA
---	---	--


Vegetarian Sources Of Omega- 3 Fatty-Acids





Bajra 42 mg per 30g	Black gram, whole 180.3 mg per 30gm
Black Rajma 162.3 mg per 30 gm	Soya bean, brown 393 mg per 30 gm


Srianth (Guest)



 JS
 Janaki Srianth (...)
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

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 Dr. Kamala ...
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 Sandeep Ra...
 Sandeep Ra...
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 PS

Role of Nutrition for Prevention, Management and Recovery in COVID - Need for Customization

42:24

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Participants

Invite someone or dial a number

Share invite

Participants: Saibantosi I, Suresh Y, Vanitha S


Attendees (44): Srita bsc MNDC (Guest), Tadam sahitya 29 (Guest), ROLL-15 SAI AASHRITH..., 2 Sri Manasa mbic (Outside your organization), 27 Muskan Sayyed MNDC (G..., 28 Manasa kolla MGC (Guest), 39 Spandana Lingam MNDC (...)

Role of Nutrition for Prevention, Management and Recovery in COVID-Need for customization

Dr.P.Janaki Srinath
Senior Nutritionist
Assistant Professor
Department of Foods & Nutrition
College of Community science
Professor Jayashankar Telangana State agricultural university


Janaki Srinath (Guest)

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Nourishing Practices During Covid-19

- Incorporate whole foods as much as possible
- Balance blood sugar (protein + fat + carbs)
- Be mindful of stimulants / depressants
- Routine (sleep, wake, eat)
- Hydrate
- Fibre and gut flora
- Rest
- Enjoy your meals



Participants: Anju S, Sandeep Ra..., JS, RD, Janaki Srinath (...), Rajani D, SaiPadma A, Vanitha S, Revathi Ved..., MG, MINI GS, MS, ManjuDevi S, +53, PS

Janaki Srinath (Guest)

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The interface shows four video thumbnails: SaiPadma A (top left), Vanitha S (top right), Janaki Srianth (Guest) (bottom left), and Revathi Vedantam P (bottom right). A large pink circle with 'MS' is in the bottom right. The participant list on the right includes: RD (Rajani D), MG (MINI GS), SR (Sandeep Ra...), Anju S, T (Tudisrividty...), 4 (47 B Roop...), 3M (39 Spandan...), ST (SaiSantoshi T), P2 (pavani 29 (...)), and PS.

02:03:25 Leave

You're recording You are recording this meeting. Be sure to let everyone know that they are ... Dismiss

The interface shows a 3x3 grid of video thumbnails: SaiPadma A, Dr. Kamala Golla (...), ManjuDevi S (top row); Janaki Srianth (Guest), Padma S, Revathi Vedantam P (middle row); and a fourth participant (bottom row). A central participant list shows: MS (MAYURI S), SR (Sandeep Ra...), RD (Rajani D), M (On hold), S (sabiha (Gue...)), and +40. The right sidebar shows a list of participants: ManjuDevi S, MINI GS, Padma S, Rajani D, Revathi Vedantam P (Organizer), SaiPadma A, and SaiSantoshi T.

Type here to search 29°C Mostly cloudy 19:10 22-06-2021

Report
Value Added Course on
“Clinical, Molecular Diagnostic methods and Genetic Counselling”
Institute of Genetics & Hospital for Genetic Diseases, Osmania University,
Begumpet, Hyderabad
2020-21
15th – 19th March, 2021

The Department of Biochemistry has organized a five-day Value-added course on “Clinical, Molecular Diagnostic methods and Genetic Counselling” for the second and final year students of B. Sc (MBBCC) in collaboration with Institute of Genetics and Hospital for Genetic Diseases from 15th to 19th March, 2021. This course was organized under DBT- Star College Scheme for the benefit of undergraduate students. Students were grouped into five teams, with each team comprising of four or five. The areas covered during the course was Clinical Genetics, Cytogenetics, Environmental Toxicology, Molecular Biology, Clinical Biochemistry and Genetic counselling.

In the Clinical Genetics division, students were made to be aware about the various prenatal diagnostic methods, importance of pedigree analysis for the purpose of Genetic counselling to the patients who may have a prehistory of genetic diseases.

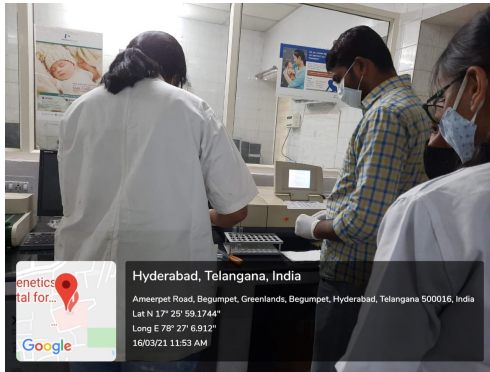
Students were explained on the significance of biochemical investigations and their relation to genetic diseases. Glucose profiling, Lipid profiling, Thyroid profiling were experimented with the patient’s samples. Students were also trained on the analysis of the obtained results and correlate the clinical significance in terms of predisposition to genetic disorders. Determination of serum and urine copper was performed for Wilson disease profiling.

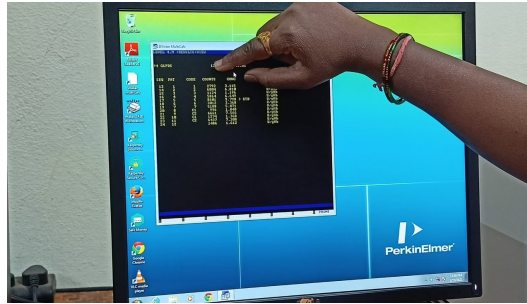
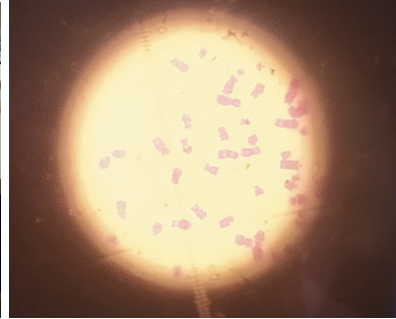
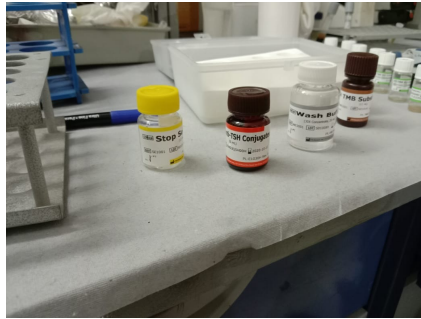
In the Molecular Biology division, isolation of DNA was done with blood sample of students and the isolated DNA was separated using Agarose gel electrophoresis in the toxicology division. In the cytogenetics division, students were made to understand about the methodology and the importance of karyotyping, FISH and Spectral karyotyping in detecting chromosomal abnormalities.

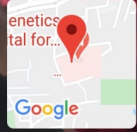
Students also had the opportunity to visualize the working of HPLC, Fluorescent Microscope, Gel Documentation unit, Thermocycler. The course was informative and educative.

No of Students: 23 (BSc II and III-year MBBCC)

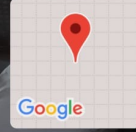
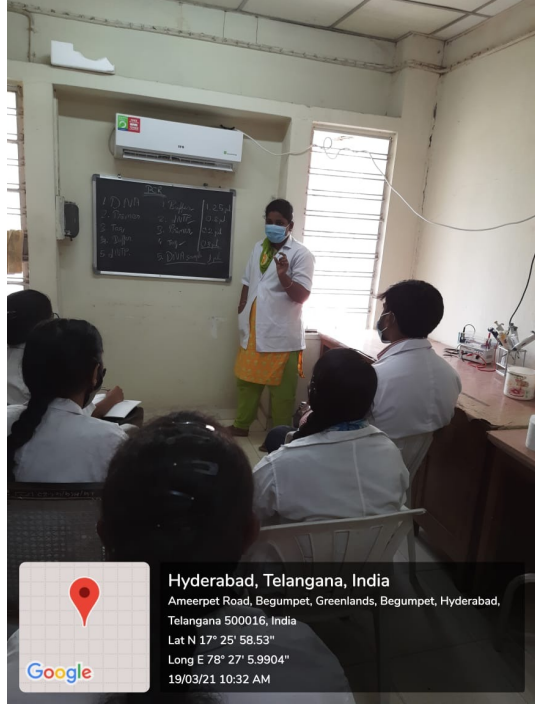
No of Faculty members: 05



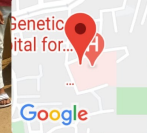
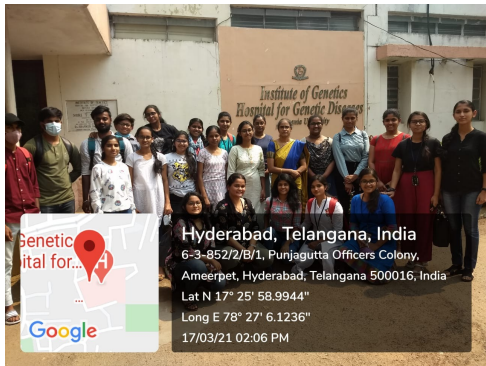




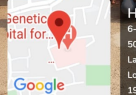
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Telangana 500016, India
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Long E 78° 27' 6.7068"
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Ameerpet, Hyderabad, Telangana 500016, India
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500016, India
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Joint online workshop on
“Intellectual Property Rights and Patent Process”

21st January, 2021

A Joint online workshop on Intellectual Property Rights(IPR) and Patent Process was organized by the Dept of Biochemistry (under DBT Star College Scheme), and IPRcell, BVC in collaboration with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Nagpur on 21st January, 2021.

The half day programme started in the morning with a webinar by Dr.Bharat Suryavamshi Assistant controller, Patents and Designs, RGNIIPM, Nagpur on **“Introduction to Intellectual Property”**. Dr.Bharat’s lecture began with an introduction to Intellectual property including the different types of Intellectual property rights like exclusive rights, Territorial Rights and Licensable rights. He also explained the significance of Intellectual Property Rights with respect to avoiding duplication of research and the creation of a wide variety of intellectual goods. Dr.Bharat outlined the importance of copyrights and explained that a single product can be protected by more than one IPR. He also gave awareness on the various job prospects available after pursuing a course in IPR.

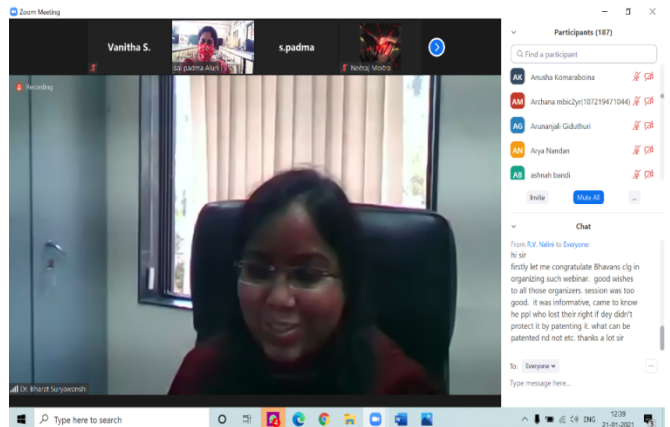
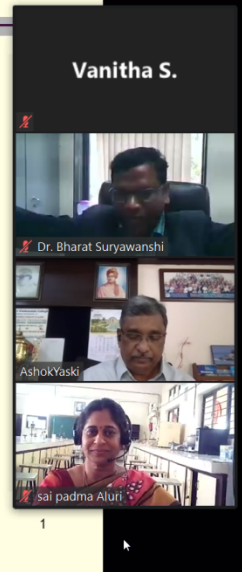
This session was followed by a webinar on **“Patent processing”** by Ms. Pooja Maulikar, Examiner of Patents and Designs, RGNIIPM, Nagpur. She explained the process and the various stages in the patent application. Ms.Pooja clearly explained the different categories of applicants, where to file a patent application, and the necessity for the jurisdiction of the patent office. Further, she also discussed the difference between physical filing of the patent and the electronic filing and listed the documents required for filing a patent application. Her talk also explained other relevant information including the size of the documents, specification of the patent, the source of biological material that are needed while filing patents.

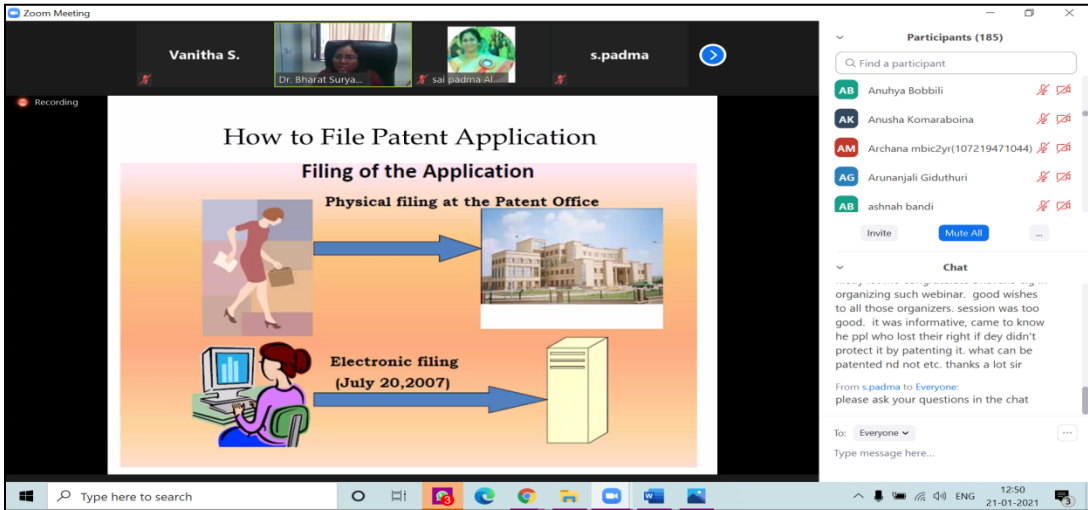
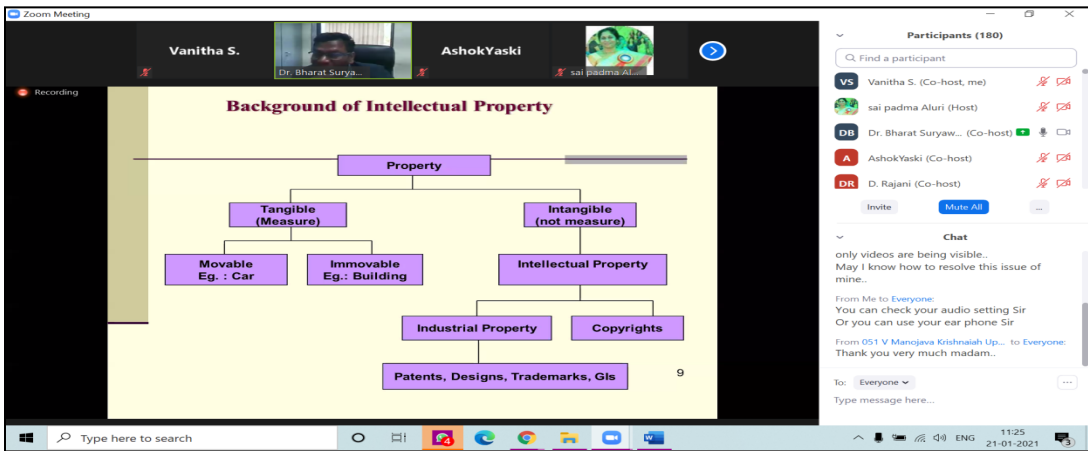
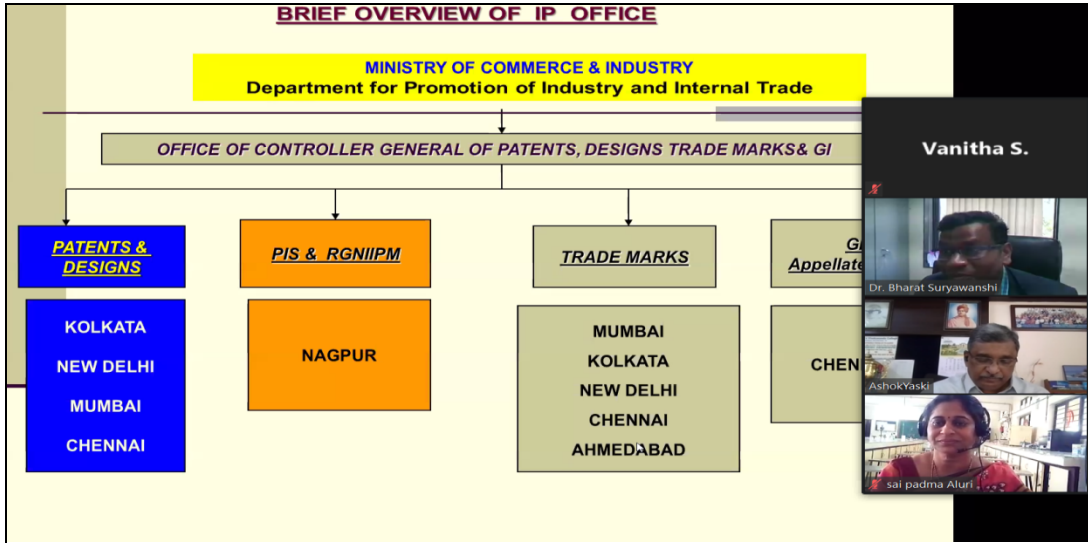
Ms .Pooja also gave an overview of the workflow of examination procedures for patent application and the various formats that need to be completed while submitting for a patent. The resource persons also answered the questions from the participants. This programme was attended by 225 participants including students and faculty form BVC as well as other colleges in Hyderabad.

Introduction to Intellectual Property

DR. Bharat N. Suryawanshi
Assistant Controller of Patents & Designs

RGNIIPM, Nagpur
Website :
rgniipm.ipo@nic.in
www.ipindia.nic.in





International Webinar on “Drug Development”

19th January, 2021

An international webinar on “Drug Development” was organized online by the department of Biochemistry on 19th January, 2021 under DBT -Star College Scheme. The resource person, Dr. Alpana Gupta, Associate Director, CMC Regulatory affairs (Biologics), Boehringer Ingelheim Pharmaceuticals, Inc. Ridgefield, Connecticut, USA delivered the talk on Drug Development.

Dr. Alpana started her lecture with an introduction to drug development and explained the various key elements in drug discovery. This included the thorough knowledge of the identification of target molecules, their mechanism of action, scientific hypothesis followed by identifying suitable drugs, optimization and indepth profiling of the compounds. She also emphasized the need for establishing a connection between biochemical mechanism and pathogenesis of disease. Dr. Alpana gave an insight into the road map from discovery to development of lead molecules. She also explained the process for Biologics development that includes choice of host, cell line creation, fermentation process, formulation and device development.

Dr. Alpana also discussed about the phases in clinical development of drugs and said that the process would require about 5-7 yrs for completion. She also gave an insight into the future of drug development by using nanotechnology and its importance for digitalized medicine and personalized medicine and cell therapy. There were 170 participants who joined the webinar and gave a good feedback about the speaker and the topic which was apt in this time of pandemic.



BHAVAN'S VIVEKANANDA COLLEGE
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 Accredited With 'A' Grade By NAAC
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Department of Biochemistry
Welcomes you to the

International Webinar on
“DRUG DEVELOPMENT”

Under DBT Star College Scheme
19th January, 2021
6:30pm [IST]



Dr. ALPANA GUPTA
 Associate Director
 CMC Regulatory Affairs (Biologics)
 Boehringer Ingelheim Pharmaceuticals, Inc.
 Ridgefield, Connecticut



AshokYaski

Zoom Meeting

Vanitha S.


sai padma Alluri

alpana

AshokYaski

Santi Rao

Dr. Vikram Panc...



AshokYaski

Umute Start Video Security Participants Chat Share Screen Record Reactions Leave

18:33
19-01-2021

Zoom Meeting

Vanitha S.


sai padma Alluri

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alpana

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19-01-2021

Zoom Meeting

Vanitha S.


sai padma Alluri

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AshokYaski

Santi Rao

Dr. Vikram Panc...



sai padma Alluri

Chat

From Vanitha to Everyone:
<https://forms.gle/8RYS0ketLcc8BNA>

From Dr. Ranee Gupta to Everyone:
 Ma'am can we get the photograph..

From Ananya Gupta SDS BI MCKDL to Everyone:
 good evening mam

From Abu Dajee to Everyone:
 thank you madam

From Dr. Vikram Panchal to Everyone:
 can we get the video recording ppt.?

From Ruby pandya to Everyone:
 thank you so much maam

From Madhika Moun to Everyone:
 Thank you.

From Vanitha to Everyone:
 great session mam

From Vanitha to Everyone:
 unable to unmute

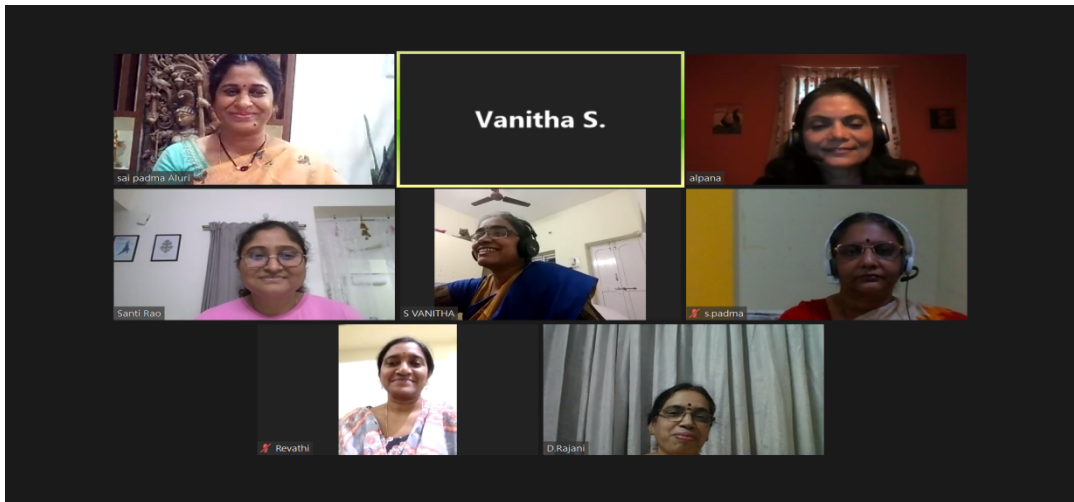
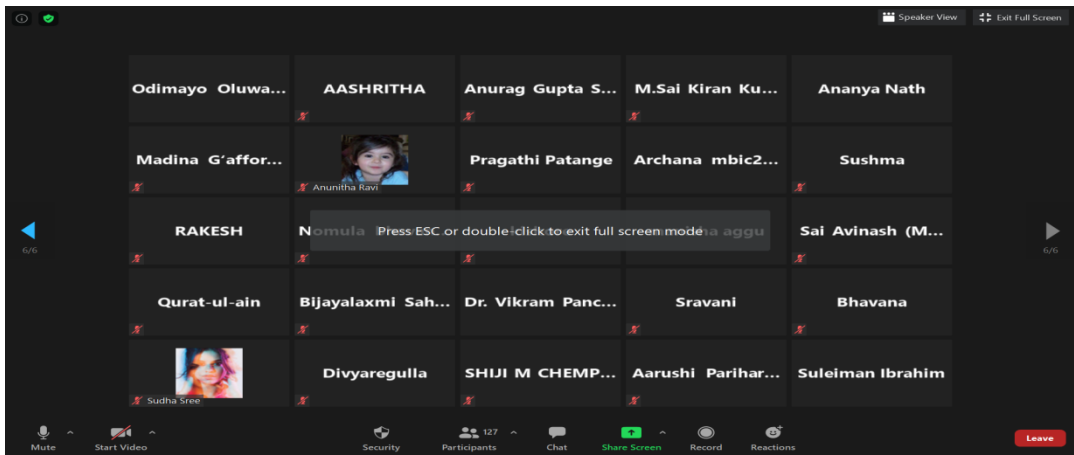
From Vanitha to Everyone:
 great work mam

To: Vanitha S. (Private)

Type message here...

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18:34
19-01-2021



**“Dietetics Day – 2021” Celebrations
Under DBT Star College Scheme
11th January, 2021**

The Department of Biochemistry, Bhavan’s Vivekananda College, Sainikpuri, celebrated Dietetics Day-2021 to create awareness among students and other community to highlight the importance of dietetics and nutrition in the maintenance of health and in the prevention and treatment of diseases. The program was organized under DBT-Star college scheme.

The first webinar titled "Significance of Nutrition and Diet management in adolescent and young adults" was delivered by Prof. B. R. Shamanna, Professor, School of Medical Sciences, University of Hyderabad, Hyderabad. In his lecture, Dr. Shamanna highlighted the current scenario of nutrition related health problems and stressed on the urgent requirement for nutritionists and dietitians to find solutions for the nutritional deficiencies. He also gave an overview of the various nutritional programs initiated by Government of India and emphasized on the importance of community nutrition.

The second lecture titled “Fad diets. Do they work?” was delivered by Mrs. Sunitha Premalatha, Chief Dietitian, Yashoda Hospitals, Somajiguda, Hyderabad. Mrs. Sunitha stressed upon the maintenance of calorie balance, increased portion sizes of different food items, life style modifications along with continuation of regular physical activity. Mrs. Sunitha spoke extensively on the pros and cons of formula diets, commercial weight loss programs, intermittent fasting etc. and how an ideal weight of a person can be achieved. The lecture was very informative and apt for the present audience group.

As part of the Dietetics Day celebrations, “**Nutrifest**”, a cooking competition was also organized for students below 25 years. The competition received 56 entries from various colleges. Students have actively participated in this contest making simple and healthy recipes adding a note on the nutritional significance of the recipe. Winners were given appreciation certificates after the webinar.

Health Camp-2020

20th and 21st of November, 2020

The Medical and Health Committee of BVC in association with Department of Biochemistry organized a health camp for the teaching and non teaching staff of BVC on 20th and 21st of November, 2020. The health camp was in association with Vimta Labs, Hyderabad. The list of tests in the health camp included Master Health checkup, Complete Health checkup, Diabetic screening, complete blood picture, HbA1C, fasting blood glucose, lipid profile, thyroid profile, calcium, uric acid, Vitamin D and B₁₂ levels. During this COVID-19 pandemic, evaluating the levels of all health parameters especially vitamin D and B12 are considered to be important to fight against infections.

A total of 39 teaching and non teaching staff from the college have got various parameters tested. It was observed that there were 26 staff members who have got their Master Health Check done. This profile includes all the tests associated with the functioning of the vital organs. While rest of the staff have got tested for profiles like either Complete Health Checkup or Sunshine vitamin screening profile showing their awareness and importance of the camp. Overall, the health camp received a very good response from staff even during this pandemic time.

**Bhavan's Vivekananda College
of Science, Humanities and Commerce,
Sainikpuri, Secunderabad**

Department of Biochemistry

**3day-online workshop on
“Bioinformatics, Molecular modelling and Biostatistics”
Under DBT Star College Scheme
12th -14th August, 2020**

Report of the workshop

A 3-day online workshop on “Bioinformatics, Molecular modelling and Biostatistics” was organised for students and faculty of life sciences by Department of Biochemistry under DBT-Star college scheme. A total of 220 participants including students and faculty members from various academic institutions all over India have attended and benefitted from the programme.

The program started on 12th August, 2020 with a formal inauguration by Principal Prof. Y. Ashok, and Dr. A. Sai Padma, Head, Department of Biochemistry. The inaugural lecture was delivered by Dr. Manjari Kiran, Assistant Professor, Department of Systems and Computational Biology, School of Life Sciences, University of Hyderabad. The topic of her lecture was “Bioinformatics: From Sequence Analysis to Prognostic Markers”, in which she explained various bioinformatics approaches and the significance of Long Non-coding RNAs (lncRNAs) based prognostic signatures in gliomas. The practical session was conducted by Dr. S. Padma, Asst Prof, Department of Biochemistry, BVC. The participants were given hands on training in few bioinformatics practicals including retrieving nucleotide sequences from databases using online resources, finding exons using GENSCAN, using BLAST for sequence alignments and primer design, CLUSTAL alignment of sequences and Protein structure prediction. The participants were also demonstrated the use of biopython and next generation sequencing data analysis.

The second day programme was started with technical session by Ms. S. Vanitha, Asst Prof, Department of Biochemistry, BVC. She gave a virtual demonstration of ligand design using Chem sketch tool and also demonstrated Protein-ligand docking using Autodock tool. The second session was conducted by Mr. V. A. Ramesh, SRF, CDFD, Hyderabad on Study of Protein Protein Interaction Networks. He explained various bioinformatics tools to study the process of protein-protein interactions.

The third day of the workshop was started with a lecture by Dr.N.Balakrishna, HOD, Department of Statistics, Apollo Institute of Medical Sciences and Research, Hyderabad on“Applications of statistics in Medical and Health”.The technical session on “Applications of SPSS software” by Dr.N.Balakrishna gave an overview of the various statistical methods and their applications in data analysis.

The participants were provided with e-manuals and practice material for all three days, for further practice at their convenience. The 3-day workshop has received very good feedback and appreciation from participants for having chosen the topics relevant to the modern science. The programme was concluded with valedictory session and e-certificates were distributed to the participants.

12th August,2020(DAY 1: BIOINFORMATICS)

Bhavan's Vivekananda College
of Science, Humanities & Commerce
Sainikpuri, Secunderabad – 500094
Autonomous College - Affiliated to Osmania University
(Accredited with 'A' grade by NAAC)

Department of Biochemistry
Welcomes you to the

3 - day online workshop on
“Bioinformatics, Molecular modelling and Biostatistics”
Under DBT- Star College Scheme
12th - 14th August, 2020

You are viewing Manjari Kiran's screen View Options

Bioinformatics is the science of storing, retrieving and analyzing large amounts of biological information.

Computational Biology: development of novel and efficient algorithms

Bioinformatics: data management and analysis

Talking: Manjari Kiran

You are viewing Manjari Kiran's screen View Options

Alignment

Based on completeness
Global
Local

Based on numbers
Pair wise alignment
Multiple sequence alignment

Methods

1. Dotplot
2. Dynamic Programming
3. K-tuple based : FASTA and BLAST

Steps involved in Basic Local Alignment Search Tool

1. Query: MRDPTKLIS
2. Scan every three residues to be used in searching BLAST word database.
3. Assuming one of the words finds matches in the database.
Query PYN PYN PYN PYN ...
Database PYN PFN PFQ PFE ...
4. Calculate sums of match scores based on BLOSUM62 matrix.
Query PYN PYN PYN PYN ...
Database PYN PFN PFQ PFE ...
Sum of score 20 16 10 10 ...
5. Find the database sequence corresponding to the best word match and extend alignment in both directions.
Query MRD PYN K L I S
Database M B E PYN D V P W
← extension to left extension to right
6. Determine high scored segment above threshold (22).
Query MRD PYN K L I S
Database M B E PYN D V P W
5 0 2 20 -1 1 -3 -3
HSP, total score 24

Mansari Kiran

Unmute Start Video Security Participants Chat Share Screen Pause/Stop Recording Reactions Leave

Long non-coding RNAs as biomarker

- >200 nt, no ORF > 50 AA, non-coding RNA
expression level is more closely associated to its function
- Numerous
(Derrien et al, Genome Res, 2012) ~ 15779 GenCODEv28
~ 27,919 FANTOM5
- Cell-type and tissue-specific
(Cabili et al, Genes Dev 2011)
- Indicator of tumor progression
(Reviewed in Huarte, Nat Med 2015)
- Found in exosomes, microvesicles eg. HULC
(Mohankumar et al, Brief Funct Genomic 2016)
- Varied function (Reviewed in Yanga G et al, BBA (2014))

Bhan et al, Cancer Res

12 August 2028
University of Hyderabad
NGS and its application

Zoom Meeting
Vanitha S.
Sangeetha.S

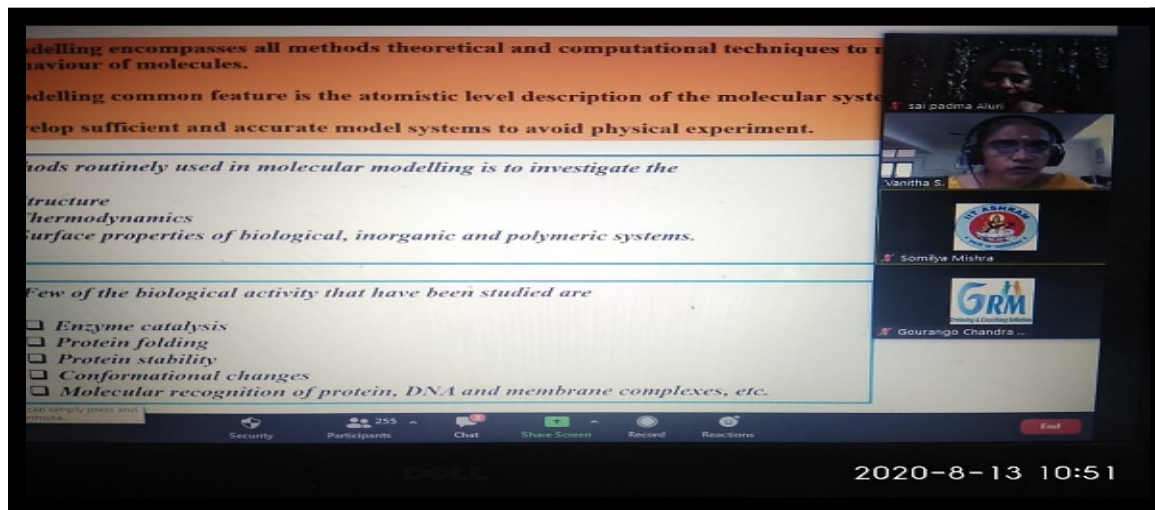
Type here to search
Windows Taskbar

Dr.S.Padma explaining the PROTPARAM tool for protein structure analysis

Zoom Meeting
Vanitha S.
sai padma Aluri
borti ya Mishra

Type here to search
Windows Taskbar

Dr.S.Padma talking about the results ofNGSanalysis using GALAXY window
13th August, 2020 (DAY 2: MOLECULAR MODELLING)



The screenshot shows a Zoom meeting window. The main content is a presentation slide with the following text:

Modelling encompasses all methods theoretical and computational techniques to study the behaviour of molecules.

Modelling common feature is the atomistic level description of the molecular system.

Develop sufficient and accurate model systems to avoid physical experiment.

Methods routinely used in molecular modelling is to investigate the structure

Thermodynamics

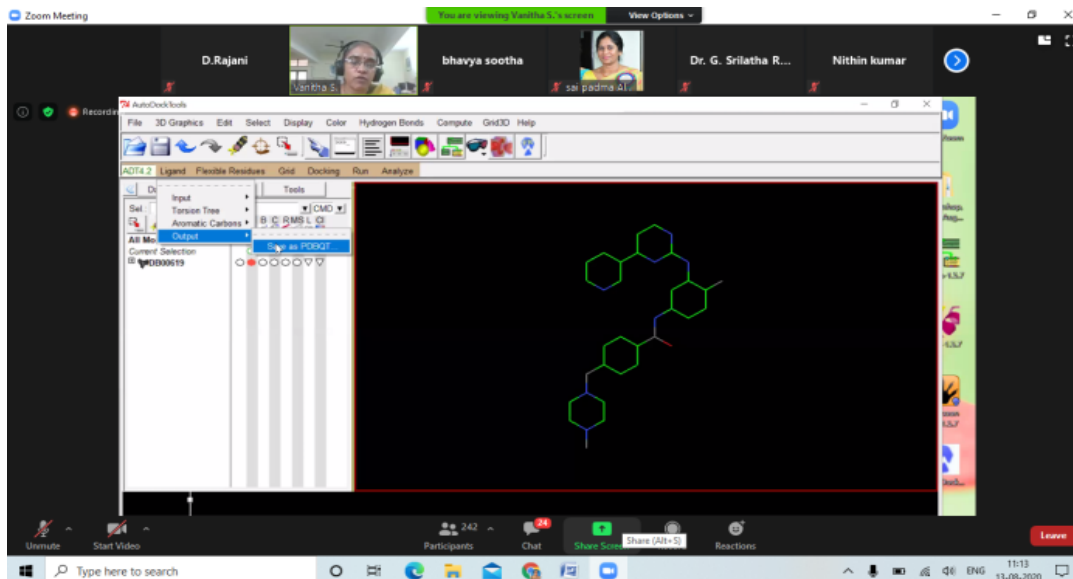
Surface properties of biological, inorganic and polymeric systems.

Few of the biological activity that have been studied are

- Enzyme catalysis
- Protein folding
- Protein stability
- Conformational changes
- Molecular recognition of protein, DNA and membrane complexes, etc.

At the bottom of the slide, it says "You simply press and hold the mouse button." Below the slide is the Zoom meeting interface with a toolbar and a video grid on the right showing participants: sai padma Aluri, Vanitha S., Somiya Mishra, and Gourango Chandra ... The date and time at the bottom right are 2020-8-13 10:51.

Mrs.S.Vanitha describing the importance of molecular modeling



The screenshot shows a Zoom meeting window with a software interface for ligand design. The software has a menu bar (File, 3D Graphics, Edit, Select, Display, Color, Hydrogen Bonds, Compute, GxETIO, Help) and a toolbar. The main window displays a chemical structure of a ligand, which is a chain of six-membered rings connected by various functional groups. The software interface includes a left-hand panel with a tree view showing 'Input', 'Torsion Tree', 'Automatic Carbons', and 'Output'. The 'Output' section shows 'Current Selection' as 'M0000019'. The Zoom meeting interface at the top shows participants: D.Rajani, bhavya sootha, Dr. G. Srilatha R..., and Nithin kumar. The bottom of the screen shows the Windows taskbar with the date and time 11:13 13-08-2020.

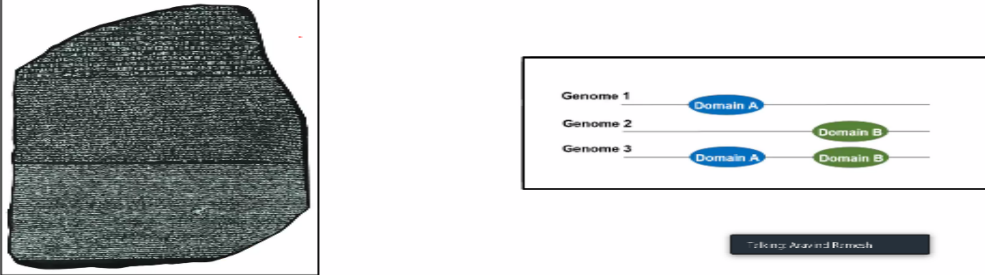
Demonstration of design of ligand

Mrs. S.Vanitha explaining the protein ligand docking using Autodock tool

The image displays a Zoom meeting window with a software interface for protein-ligand docking. The software window, titled "Autodock", shows a 3D model of a protein structure with a ligand docked. The interface includes a menu bar (File, 3D Graphics, Edit, Select, Display, Color, Hydrogen Bonds, Compute, Grid3D, Help) and a toolbar. The main window shows a 3D view of the protein and ligand, with a sidebar on the left containing a "Select" panel and a "Tools" panel. The Zoom meeting interface shows participants: D.Rajani, bhavya sootha, Dr. G. Srilatha R..., and Nithin kumar. The Windows taskbar at the bottom shows the date and time: 2020-8-13 11:16.

Recording... You are viewing Avinash Ramesh's screen. View Options

Rosetta Stone Method



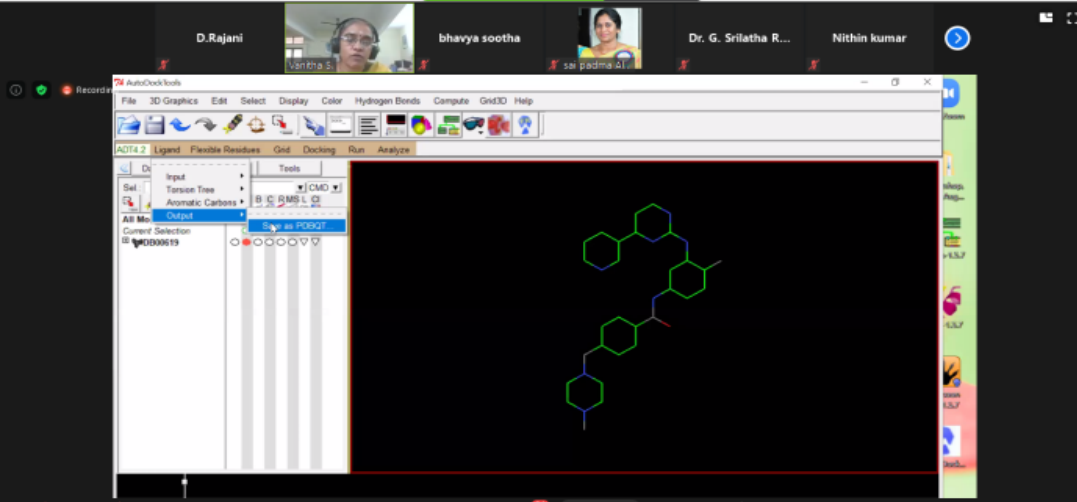
The diagram illustrates the Rosetta Stone method for protein-protein interaction analysis. On the left is a large, dark, textured image of the Rosetta Stone. On the right, a schematic shows three genomes (Genome 1, Genome 2, and Genome 3) with two domains, Domain A and Domain B, highlighted in blue and green respectively. A caption below the schematic reads "Talks: Avinash Ramesh".

Unmute Start Video Security 216 Participants Chat Share Screen Pause/Stop Recording Reactions Leave

Mr.V.A.Ramesh explaining the Rosetta Stone for analyzing protein protein interactions

Zoom Meeting You are viewing Vanitha S.'s screen. View Options

D.Rajani bhavya sootha Dr. G. Srilatha R... Nithin kumar



The screenshot shows the AutoDockTools software interface. The main window displays a 3D molecular model of a protein-ligand complex. The left sidebar shows the 'ADT4.2' menu with options like 'Input', 'Tools', and 'Output'. The bottom status bar indicates 242 participants and a chat window.

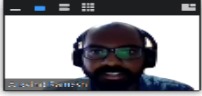
Unmute Start Video 242 Participants Chat Share Screen Share (Alt+S) Reactions Leave

Type here to search 11:13 13-08-2020

Recording... You are viewing Avinash Ramesh's screen. View Options

Databases of Protein-Protein Interactions

1. STRING [<https://string-db.org/>]
2. BIOGRID [<https://thebiogrid.org/>]
3. HPRD [<https://www.hprd.org/>]
4. IntAct [<https://www.ebi.ac.uk/intact/>]
5. HIPPIE [<http://cbdm-01.zdv.uni-mainz.de/~mschaefer/hippie/>]



Unmute Start Video Security 207 Participants Chat Share Screen Pause/Stop Recording Reactions Leave

List of databases for protein –protein interactions

14th August,2020 (DAY 3:BIOSTATISTICS)

Bhavan's Vivekananda College
of Science, Humanities & Commerce
Sainikpuri, Secunderabad – 500094
Autonomous College - Affiliated to Osmania University
(Accredited with 'A' grade by NAAC)

Department of Biochemistry
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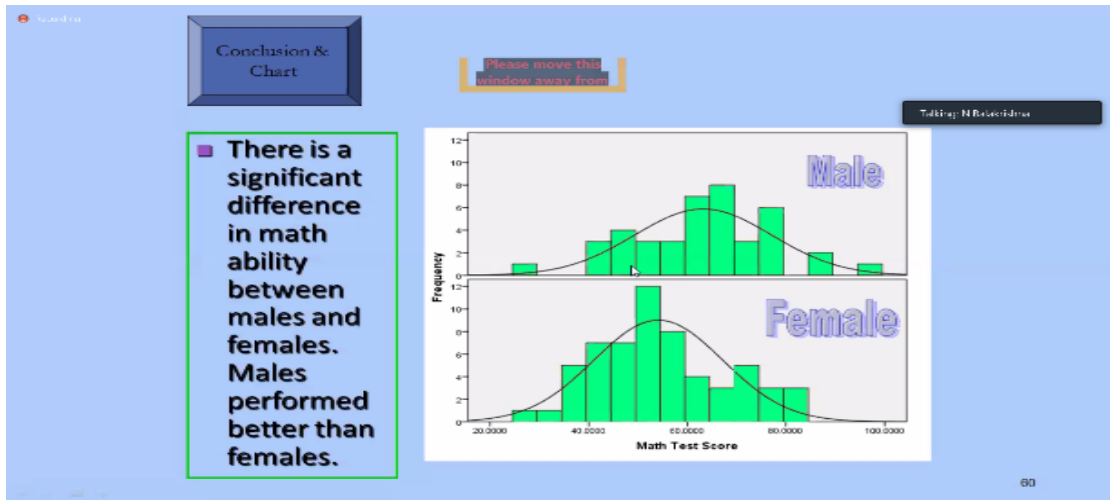
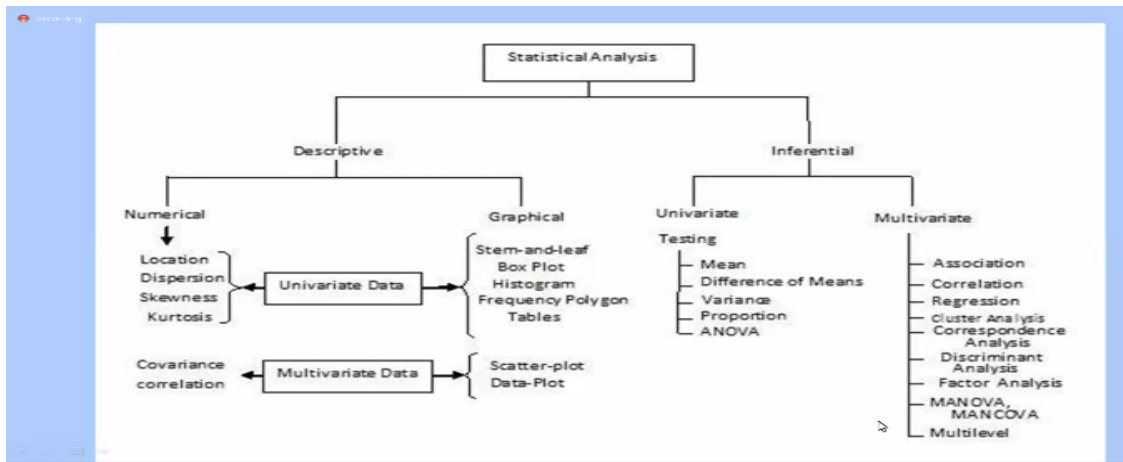
Under DBT- Star College Scheme

12th - 14th August, 2020

Day 3 Resource person



Dr. N. Balakrishna
HOD, Dept of Statistics
Apollo Institute of Medical Sciences & Research
Hyderabad
Former Scientist E (Dy. Director)
National Institute of Nutrition, Hyderabad



Recording You are viewing N.Balakrishna's screen View Options

2-Way Factorial ANOVA

Please move this window away from

Talking N.Balakrishna

1. Go to General Linear Model &

2. Choose One Dependent & Two Independent

Unmute Start Video 199 Participants Chat Share Screen Record Reactions Leave

Recording

Mute Stop Video Security Participants Chat Share Screen Raise/Hide Recording Reactions Leave

Student - Alumni Interaction

25th July, 2020

The Department of Biochemistry organized a webinar on “CAREER IN LIFE SCIENCES – SUCCESS STORIES” a Student - Alumni Interaction on 25th July, 2020 from 10 am to 1:00pm on Zoom platform. Alumni who are settled in the field of academics, as scientists and as industry experts were invited to interact with the students of present batches pursuing their studies for their orientation towards a successful career. Alumni were invited starting from the first batch of 2001-03 to 2013-15 batches. The alumni spoke about their experiences and narrated how they have reached to the position they are in now. Since the invited alumni included who are settled at various places in India, USA and Switzerland they provided the information to the students about the various opportunities available and how to avail them. They gave suggestions to the students how to have short term and long term goals and to plan in achieving these goals. The alumni also intimated to the students to approach them through their E-mail for any further guidance required which was very encouraging to the students.

Students from the undergraduate and post graduate courses of life sciences attended the webinar and found the interaction very useful in planning their career. From the feedback on webinar, it was seen that 100% students felt the interactive session with the alumni useful to them.

The screenshot shows a Zoom webinar interface. At the top, there are controls for Mute, Start Video, Security, Participants (70), Stop Share, Pause Share, and Remote. Below this is a banner for BHAVAN'S VIVEKANANDA COLLEGE, of Science, Humanities & Commerce, Sainikpuri, Secunderabad, Accredited with 'A' Grade by NAAC, Autonomous College - Affiliated To O.U.

The main content area is a purple-themed slide with the following text:

- Department of Biochemistry
- Welcomes you to the Webinar ON
- CAREER IN LIFE SCIENCES – SUCCESS STORIES
- Student - Alumni Interaction
- 25th July, 2020
- 10:00am to 12:00 noon IST

The slide is divided into two sections: "Academicians & Scientists" and "Industry Experts".

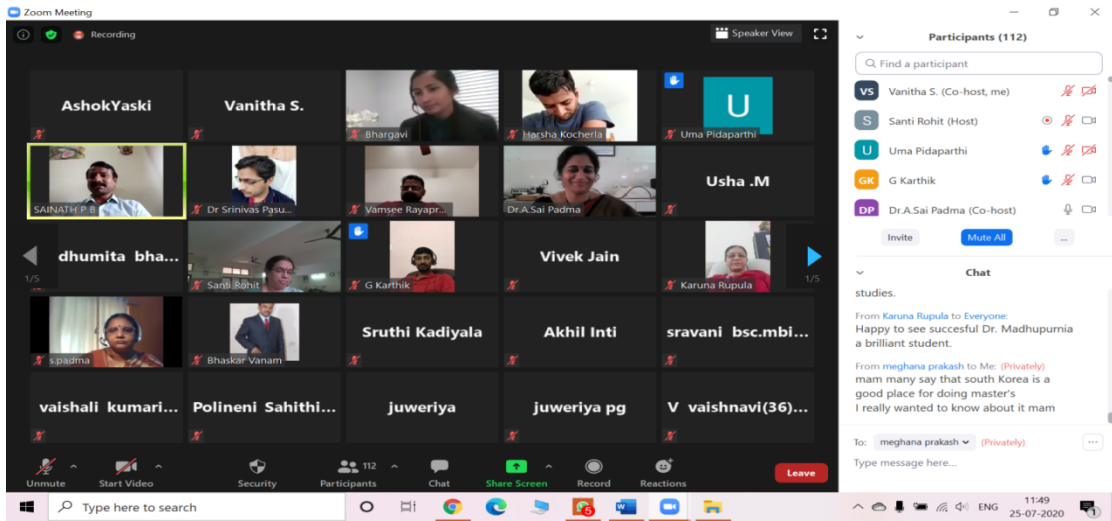
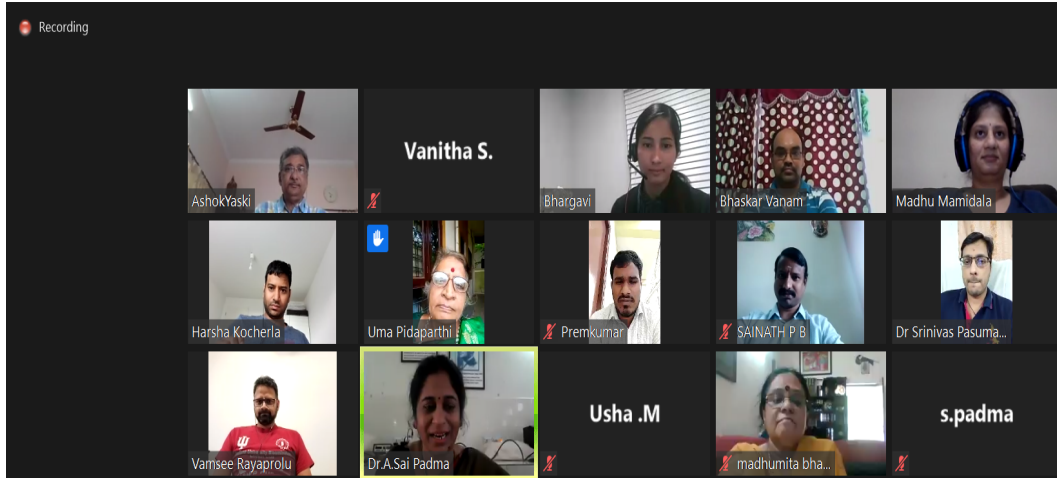
Academicians & Scientists:

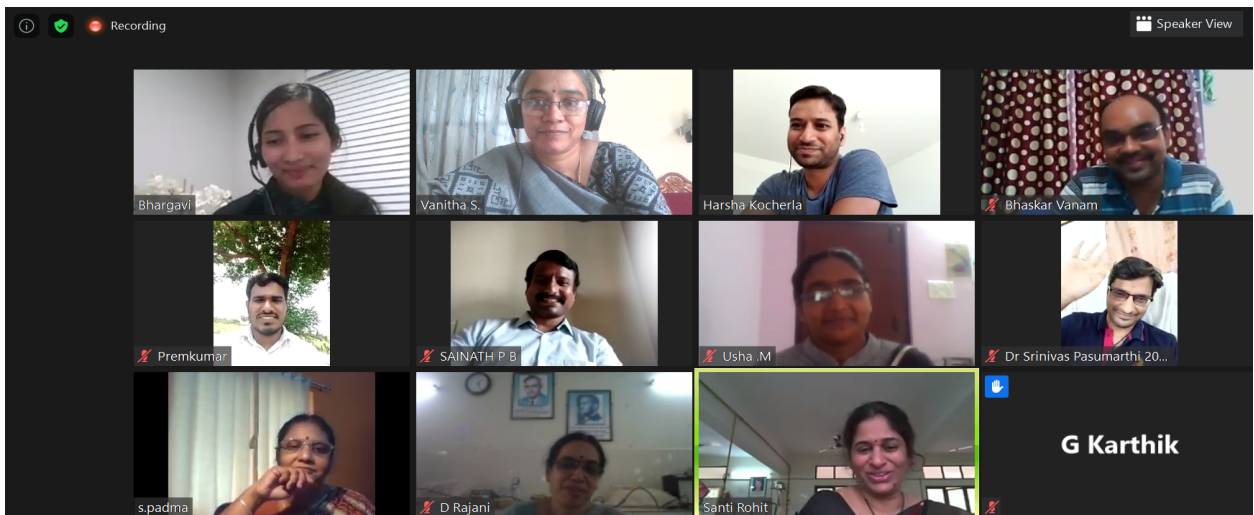
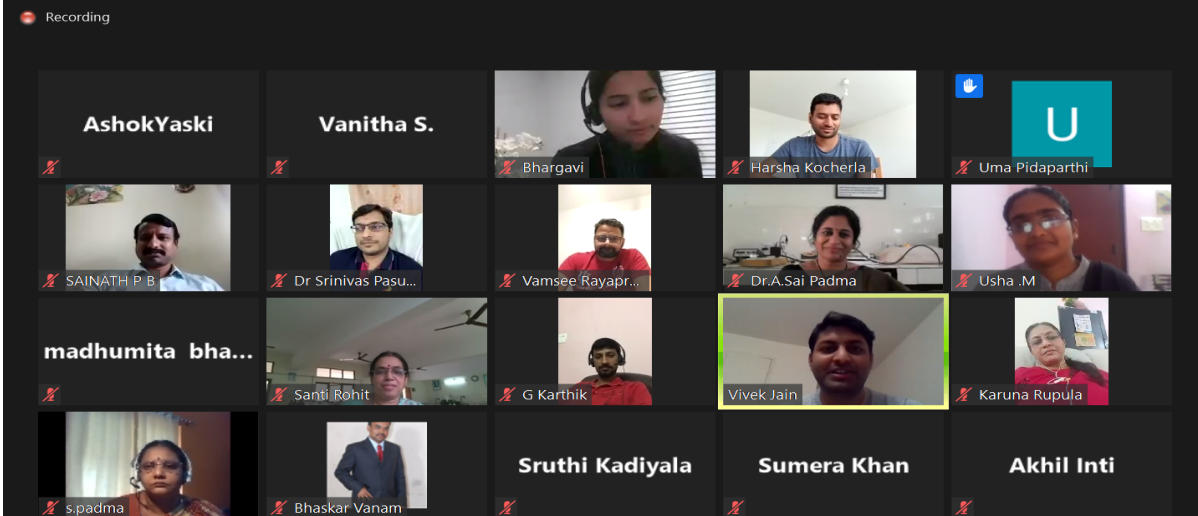
- Dr. Vamsudhar Rayapudi** (M.Sc. Biochemistry 2002-2004), Scientific Associate, La Jolla Institute for Immunology, USA
- Dr. Sainath PB** (M.Sc. Biochemistry 2002-2004), Technical Officer, Ministry of Sports & Nutrition, ICMR, NIN, Hyderabad
- Mrs. Usha, M** (M.Sc. Biochemistry 2002-2004), Lecturer, MJPT Degree College for Women, Warangal, Telangana
- Dr. Madhu Mamidala** (M.Sc. Biochemistry 2006-08), Research Coordinator, The University of Tennessee Health Science Center, Tennessee, USA
- Dr. Bhargavi Jetti** (M.Sc. Biochemistry 2007-2009), Sr. Scientist R&D - Highs Center of Excellence, Nature's Sunshine, USA
- Mr. ...** (M.Sc. B. Grads. Unives)

Industry Experts:

- Dr. Srikrishna Pasumarthi** (M.Sc. Biochemistry 2001-03), Scientist, Aurobindo Pharma Ltd, Biologics, Hyderabad
- Mr. Bhaskar V** (M.Sc. Biochemistry 2004-2006), Deputy Manager, QA, MSN labs, Kothur, Hyderabad
- Mr. Karthik Gohouri** (M.Sc. Biochemistry 2010-12), Quality Specialist, Novartis, Hyderabad
- Mr. Visha Jain** (M.Sc. Biochemistry 201), Sr. Validation Specialist, Integrity Compliance, Mer...

On the right side of the Zoom interface, there is a list of participants and a video grid showing several attendees. The participant list includes Harsha Kocherla, Santhi Rohit, and Usha M.





e-poster presentation competition
on
“Impact of COVID-19 infection on human immune system and physiology”
9-7-2020

The department of Biochemistry organized an online e-poster presentation competition on 9-7-2020. The programme was organized on Zoom platform from 12.30 pm onwards. There was submission of posters from 36 candidates all over India that included Undergraduate, Postgraduate students and research scholars. Among them, 15 were shortlisted for online presentation based on the content and preparation of the slide. The e- posters were judged by eminent doctors, Dr.Devender Singh Negi, Prof & HOD of Physiology, Mediciti Hospitals, Ghanpur, Telangana state and Dr.S.Srinivas, Head, critical care, Virinchi Hospitals, Hyderabad. The selected 10 posters were given the order of merit and were given e-certificates.

The participants were applauded by the judges for their good efforts in understanding the biochemical processes underlying in how the COVID-19 impacts the human immunity and physiology of the body. The feedback has shown that 100% participants have felt that this kind of competitions will motivate and help them to learn the subject.

Awareness for protective measures to be taken for COVID-19 prevention

Medical and Health committee along with the Department of Biochemistry has taken an initiative in providing an interim guidance to the staff of the college to prevent COVID-19 infection. As a part of this, thermal scanners and pedal lifting hand sanitizing dispensers are arranged at the entrances. Staff members are strictly instructed to wear face masks as they enter into the campus and maintain a physical distance of at least meter. The committee also arranged for 1% hypochlorite as a disinfectant for cleaning the surfaces at the work place and also the knobs, handles and lifts. To keep the staff aware constantly of the symptoms of corona virus infection the institutional guidelines to be followed were circulated among them. Staff received the guidelines positively and were seen implementing them.





Department of Biochemistry
Online Quiz on “Immunization and Vaccines”
26th May- 27th May, 2020

On the occasion of World Immunization Week celebrated in the last week of April (24 to 30 April)2020, WHO declared its theme for this year as “Vaccines Work for All”. Vaccines are the most successful, safe, cost-effective way to protect everyone against serious and often deadly diseases such as measles, polio, and even some forms of cancer. Immunization is a shared responsibility—families, health workers, and public health officials must work together to help protect entire communities. In order to create awareness on the significance of immunization and types of vaccines against a variety of diseases that can affect all of us and our families, department of Biochemistry has organized an online Quiz on “Immunization and Vaccines”. Questions based on immunization and vaccines were created using Google form and circulated amongst the student and faculty communities of various institutions. The forms were made available for 24 hours to respond in large number. There was 229 responses with nearly 60% of the participants scoring more than 70%. e-certificates were issued to the deserved participants as a token of appreciation.

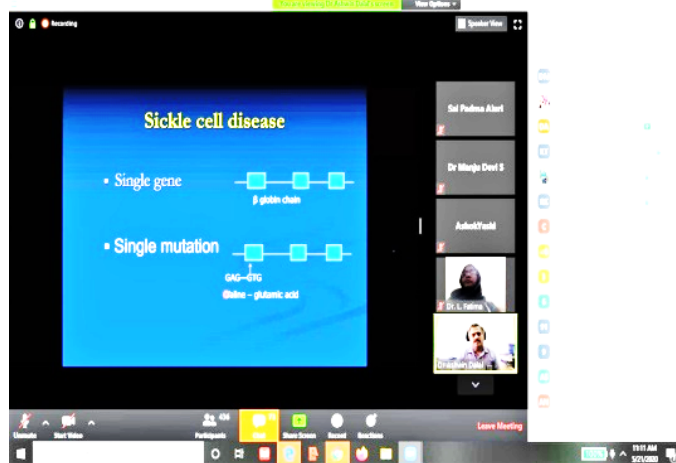
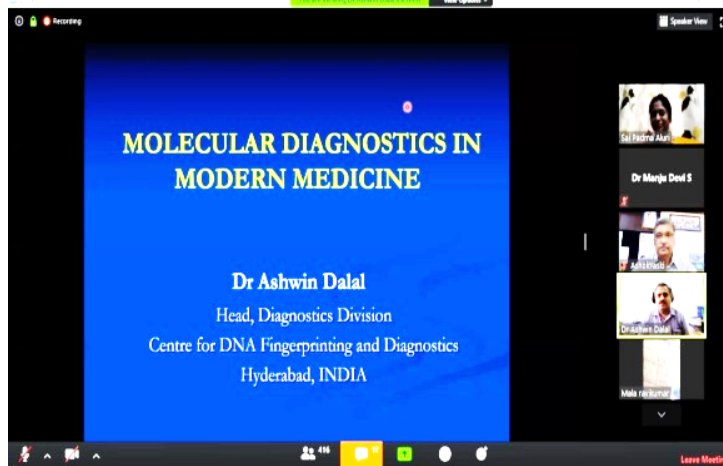
Link for the quiz:

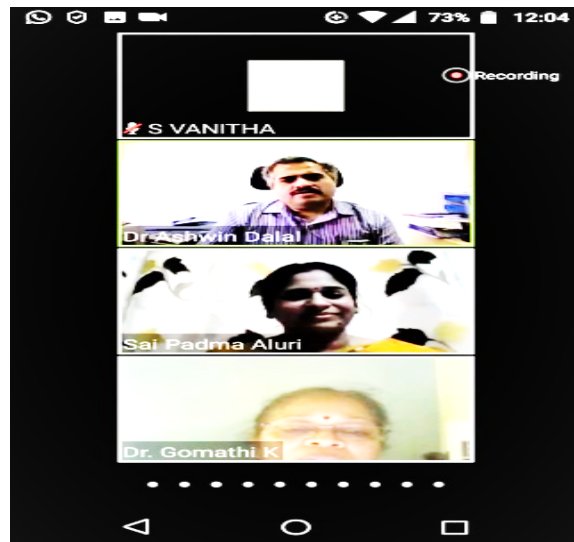
https://docs.google.com/forms/d/1oJFq0WTEZ4VIC-7hk1Ghw-0LAABYCr8V_5x_-338kPg/edit

Department of Biochemistry
Webinar on “Molecular Diagnostics and Modern Medicine”
21st May, 2020

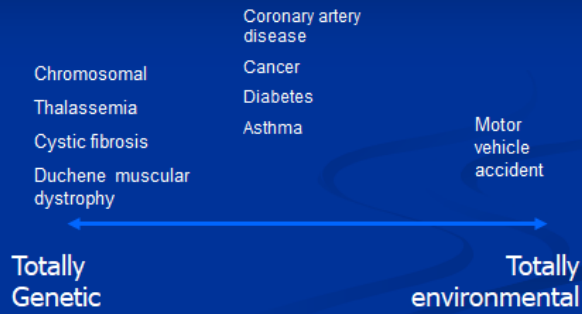
Department of Biochemistry has organized second webinar on the topic “Molecular Diagnostics and Modern Medicine” on 21st May, 2020 at 11:00am to 12:00 noon using Zoom as an online platform. The guest speaker of the day was Dr. Ashwin Dalal, Head, Diagnostic Division, Centre for DNA Finger printing and Diagnostics (CDFD), Hyderabad, Telangana, India. The webinar started with welcome address by Dr. A. Sai Padma, Head, department of Biochemistry followed by Prof. Y. Ashok, Principal inviting the speaker and the audience. The main aim of this lecture was to introduce the participants to advanced and latest diagnostic methods available to screen genetic defects at various stages and possible genetic counselling. Session started with introduction to basic concepts of human cell and different types of genetic disorders. The techniques covered in the webinar were PCR, and PCR based methods like MLPA, PCR-RFLP, ARMS-PCR along with antigen-antibody interactions by DOT-BLOT.

Advanced screening methods like Sanger's sequencing, Microarray and NGS (Next Generation Sequencing) were addressed in correlation to genetic disorders. The webinar received a huge response with 550 participants including faculty members and students from various institutions. A positive feedback was obtained from the participants and e-certificates were dispatched to the attendees.

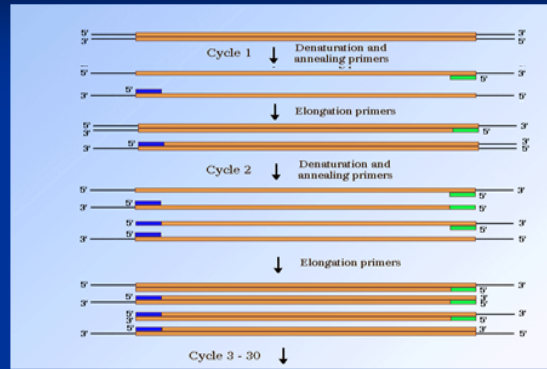




Spectrum of genetic disorders

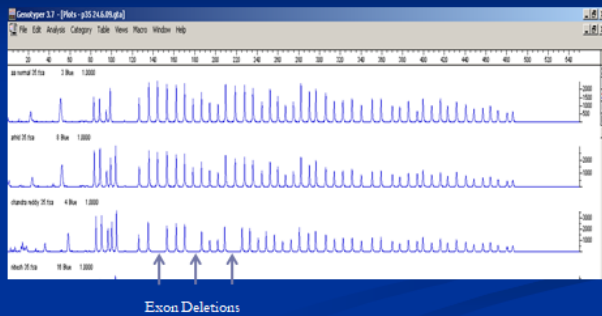


Polymerase chain reaction

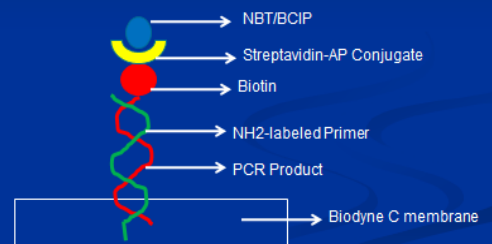


PCR-RFLP, PCR-SSCP, DNA Sequencing

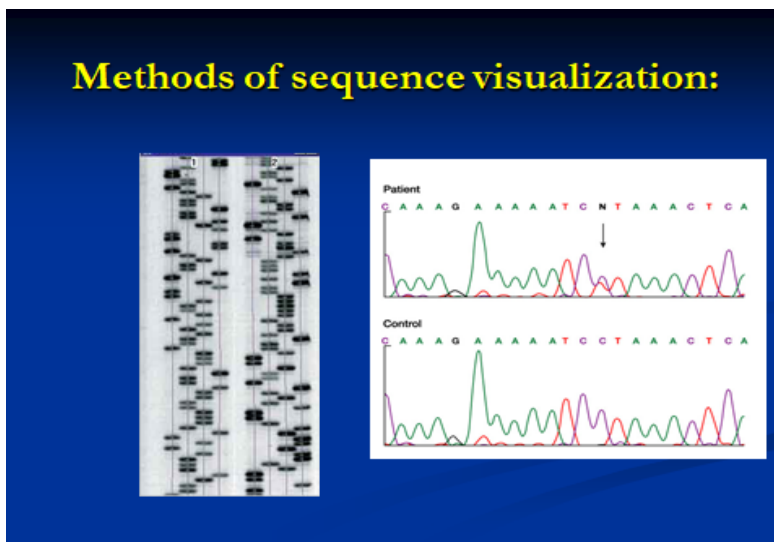
DMD- MLPA



Reverse Dot Blot



Methods of sequence visualization:



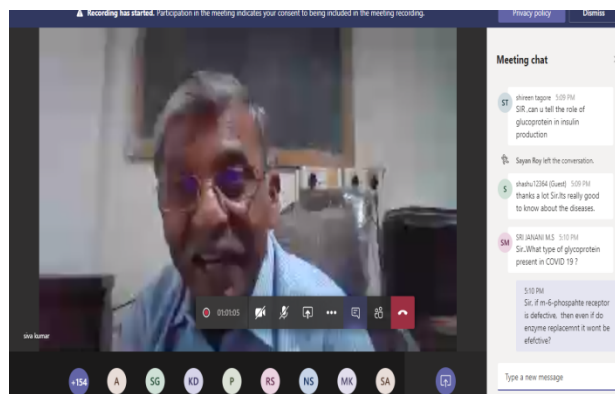
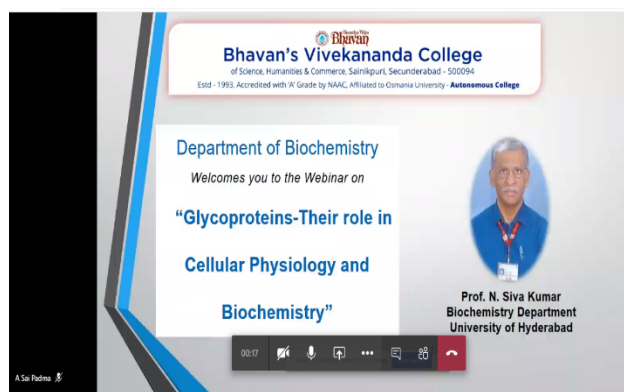
Department of Biochemistry

Report on Webinar

“Glycoproteins -Their role in Cellular Physiology and Biochemistry”

9.5.2020

In order to effectively utilize time and refresh the knowledge during Covid-19 pandemic time, Department of Biochemistry, Bhavan’s Vivekananda College, Sainikpuri, organized a webinar on 9-5-2020 from 4.00-5.00 pm. The speaker of the webinar was Dr. Nadimpalli SivaKumar- Senior Professor and Director of International Affairs, Biochemistry Department, School of life Sciences, University of Hyderabad. The Topic for the webinar was ‘Glycoproteins- Their role in Cellular Physiology and Biochemistry’.



The webinar started with the welcome address by Dr. A. Sai Padma, HOD, Department of Biochemistry. She welcomed the speaker of the webinar Dr. Nadimpalli SivaKumar, Principal Prof. Y. Ashok and all the participants. With the wishes from Prof. Y. Ashok for a successful webinar the session was started by prof. N. Sivakumar. He detailed about the role of glycoproteins and their biosynthesis in cells. He also emphasized on the lysosomal hydrolases and their specific transport to lysosomes. Further, the diseases associated with the lysosomal hydrolases, and possible ways of treatments were also explained well. An interactive session with the speaker was also arranged at the end of the webinar for queries from the participants. The delegates of the webinar included faculty and students from various universities and colleges in Telangana, Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Maharashtra, Pondicherry, Punjab and West Bengal. A total of 177 delegates attended the webinar, which was successfully completed with no technical flaws. The participants gave a good feed back at the end of the session about the seminar topic, effective delivery by the speaker and smooth conduct of webinar.

