



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(AUTONOMOUS) COLLEGE WITH POTENTIAL FOR EXCELLENCE (LINGUISTIC MINORITY INSTITUTION)

NEWCLEOTIDE

DEPARTMENT OF BIOCHEMISTRY

Volume 1 Issue 1
June-Dec 2020

OUR COLLEGE

Dwaraka Doss Goverdhan Doss Vaishnav College is a linguistic minority institution established in the year 1964 by the Rajasthanis and Gujaratis settled in Chennai, with the sole purpose of imparting value based quality education and empowering the youth. It has been a haven for generations of enthusiastic learners through five decades and more. A multi disciplinary approach in designing the course work is adopted to ensure industry-academia collaboration. Outstanding performance of the students in academics and extension activities has enabled the college to emerge as one of the premier institutions of higher learning.

DEPARTMENT OF BIOCHEMISTRY

The undergraduate program in Biochemistry was started in the year 1995. The department was upgraded to a postgraduate department in 1998 and research department in 2015 with the state of art facilities. The primary objective of the department is to develop and strengthen the academia-industry relationship, in order to make the students industry-ready besides imparting value-based education. The department also facilitates interactions with eminent experts from industries and hospitals. The department has completed a 25-year mark and is celebrating its **SILVER JUBILEE (1995-2020)** this year. Several research papers have been published by teachers and scholars of the Department in national and international scientific journals. Some of our alumni are in very high positions in India and abroad in academic and administrative fields. Several research projects have been undertaken by the teaching faculty. The department is dedicated to the expansion and transmission of knowledge about the biological world and to develop a suitable foundation for careers in research, teaching, R&D, hospitals and clinical laboratories.

VISION OF THE DEPARTMENT

To be the center for excellence in Biochemistry by/and producing students highly skilled in the latest tools and technologies and making them to enhance the quality of life. To become a leader in near future in biochemistry by integrating teaching & learning, learning & skills, skills & employability, learning & research and research & service.

MISSION OF THE DEPARTMENT

- ❖ To provide better understanding of the subject with sound knowledge in theory & practical
- ❖ To cultivate the ability to apply creativity and independent thinking resulting in bridging the gap between industry and academics to meet the industrial demands.
- ❖ To follow a multidisciplinary research strategy by harnessing all the available resources
- ❖ To apply the biochemical knowledge in solving human life and environment related problems.

Chief Patron:

Shri. ASHOK KUMAR MUNDHRA
Secretary.

Patron:

Capt. Dr. S. SANTHOSH BABOO
M.Sc., Ph.D.,
Principal.

Editor-in-Chief:

Dr. P.T. SRINIVASAN
M.Sc., Ph.D., M.A.(P&R)
M.Sc.,(BI),MA (T)SLET,MISCA,
Head, Department of Biochemistry.

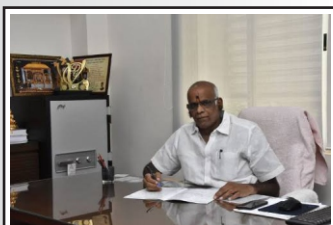
Sub Editor:

Mrs. M.MARIA CAROLINE REBELLOW
M.Sc.,M.Phil.,NET,
Assistant Professor,
Department of Biochemistry.

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MESSAGE FROM THE SECRETARY



Shri. ASHOK KUMAR MUNDHRA
Secretary.

Warm greetings. The college is dedicated for the overall development of its students. Besides the academic development, other aspects such as communication skills, leadership qualities, self-discipline are being focused. I congratulate the PG & Research Department of Biochemistry which has been constantly striving to provide the best platform for the students to learn by conducting various workshops, webinars, National & International conferences, etc. Best wishes to the department as they have completed a 25-year mark and are releasing their newsletter. Wishing them success in all their endeavours!

MESSAGE FROM THE PRINCIPAL

It gives me immense pleasure to release “NEWCLEOTIDE” the newsletter of the PG & Research Department of Biochemistry. The college has witnessed some important events that will embellish the annals of the college. The Silver Jubilee celebration of the Department of Biochemistry is one among them. The department has been doing an amazing work by conducting webinars, alumni talks every month as they celebrate the silver jubilee this year. The department has grown from the time of its inception with committed head, professors and students who have contributed to the long history of the department. I wish that the department will march with excellence towards its Ruby Jubilee.



Capt. Dr. S. SANTHOSH BABOO
Principal.

MESSAGE FROM THE EDITOR



Dr. P. T. SRINIVASN
Head,
Department of Biochemistry

Welcome to the Department of Biochemistry at Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai.

Biochemistry is the language of biology and the biochemical changes at the cellular and molecular levels are in all branches of medical and life sciences. This makes Biochemistry an important component of life sciences.

Our department is located in a sprawling environment with the state of art facilities and highly qualified faculty. The department works with the objective of addressing critical challenges faced by the industry, society and academia and tries to bridge the gap between them. Even more important is our unceasing commitment to our students, helping them to learn, grow, develop, and achieve their goals in their pursuit to excel in their professional career. A team of dedicated faculty with rich experience in research, frame curriculum and modify it periodically to accommodate the latest developments in biochemistry.

As we are celebrating the silver jubilee of our department this year, the department has been organizing various webinars and programmes every month.

The alumni of the department occupy high positions in industry and academia, in India and abroad. Their accomplishments have been outstanding and reflect on the quality training imparted at the undergraduate and post graduate level. I congratulate the entire team of faculty and students of the department who have been constantly bringing laurels to the department.

NEUBERG CREW

The "**NEUBERG CREW**" is a student run club of the Department of Biochemistry dedicated to advancing the interests of the undergraduates & postgraduates of the department. Club activities are organized regularly to encourage students in research, academics, internship opportunities, career opportunities and intercollegiate events. The crew was instituted in 2018.

The crew looks at the application of concepts and methods in the field of life sciences. Members are also introduced to internships, conferences, professional guest lectures etc. The crew also conducts intercollegiate event - Cellutions and alumni meet ups. The crew also provides a platform for members to enhance their leadership and communication skills.

FACULTY COORDINATOR



Mrs. M. MARIA CAROLINE REBELLOW

Assistant Professor

OFFICE BEARERS



Ms. S. CHARUHASINI

President, Neuberg Crew



Ms. SNEHA SATHAPATHI

Secretary, Neuberg Crew



Mr. DUKE SHOLTO JEBA THOMAS

Joint Secretary, Neuberg Crew

STATE LEVEL ONLINE QUIZ

- Event** : State level online quiz on
"Understanding the Biochemistry of Covid-19"
- Intercollegiate.
- Platform** : Google forms.
- Date** : 24th - 25th May 2020
- Time** : 5.00 PM
- No of questions** : 15
- Organizers** : Prof. S. Vaidehi,
Prof. Sangeetha Sathyanarayan, Neuberg Crew,
PG & Research Dept. of Biochemistry, DG Vaishnav College.

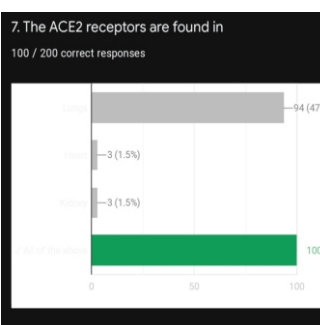
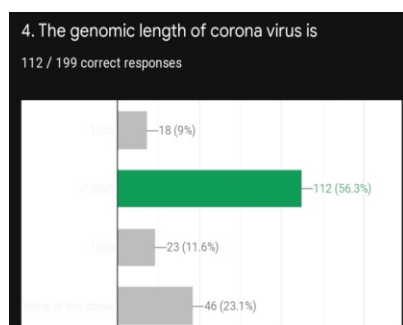
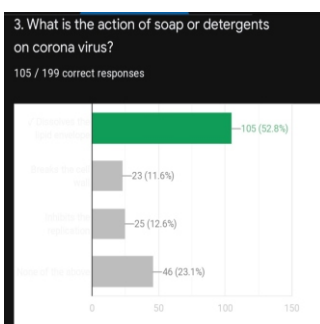
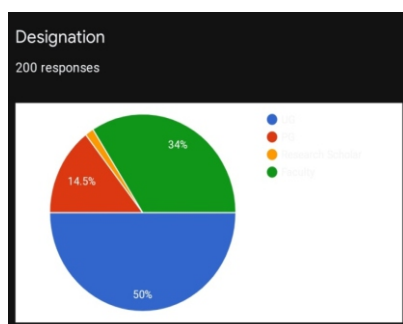


No. of entries per day : 100 entries.

Number of participants : 200.

Number of participants who passed the quiz : 123

Outcomes of the event : Created awareness regarding the biochemistry aspect of COVID-19.



State Level Online Quiz on Understanding the Biochemistry of COVID-19

The quiz is organised by The Department of Biochemistry, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai-106

Email address *

Valid email address

This form is collecting email addresses. [Change settings](#)

Full Name *

Short-answer text

College *

Short-answer text

State Level Online Quiz on Understanding the Biochemistry of COVID-19

Questions Responses (201) Total points: 15

Snake

Tiger

Bat

3. What is the action of soap or detergents on corona virus?

Dissolves the lipid envelope

Breaks the cell wall

Inhibits the replication

None of the above

4. The genomic length of corona virus is

Event : International E-Conference on Nutraceuticals as Immune Boosters

Platform : Cisco webex meet & You Tube live streaming.

Date : 28th October 2020.

Time : 11:00 AM - 1:00 PM

Venue : Inauguration at Ganga block, D.G Vaishnav College,

Organizers : PG and Research Dept. of Biochemistry.

Resource Persons :



Dr. U.S. Mahadeva Rao

Dept. of Biochemistry, Faculty of Medicine,
University Sultan Zainil Abidin, Malaysia.

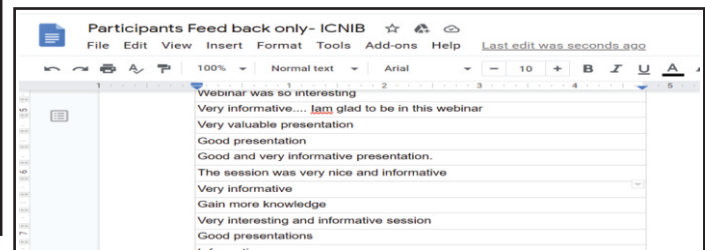
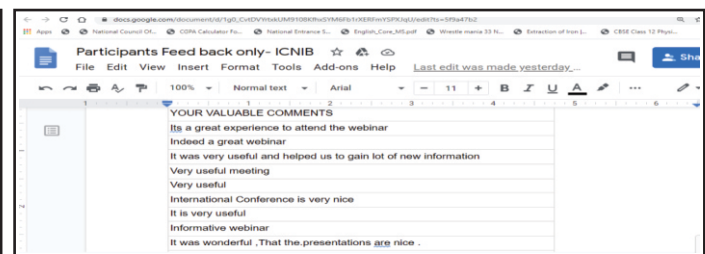
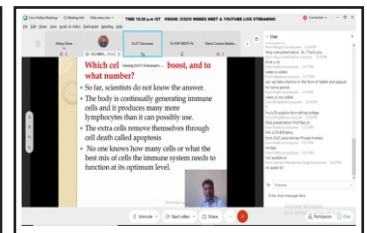
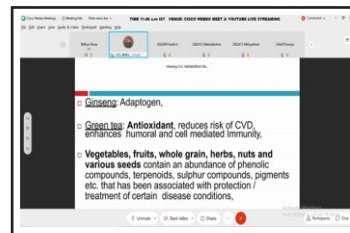
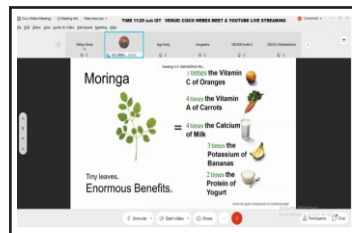


Dr. Kalandar Ameer

Associate Professor, Dept. of Biochemistry, School of Medicine,
College of Health & Medical sciences, Haramaya University, Ethiopia.

No. of Participants : 455

No. of Countries : 9-Ethiopia, Malaysia, Nigeria, US, Somalia, India, Finland, Saudi Arabia, Maldives.



Event : National webinar on "Understanding the signs & symptoms of COVID-19".

Platform : Google meet & You Tube live.

Date : 02nd December 2020

Time : 3:00 PM - 4:15 PM

Organizers : Neuberg crew, PG & Research Dept. of Biochemistry, DG Vaishnav College.

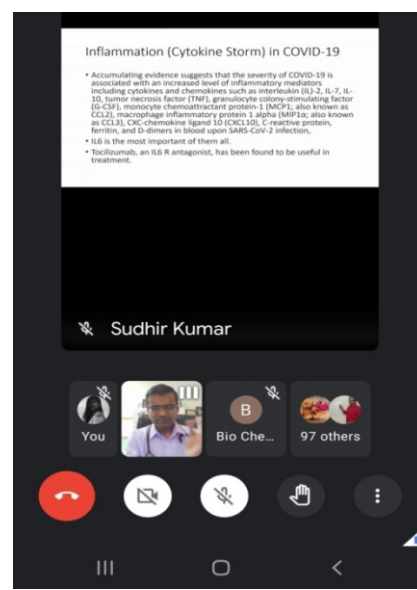
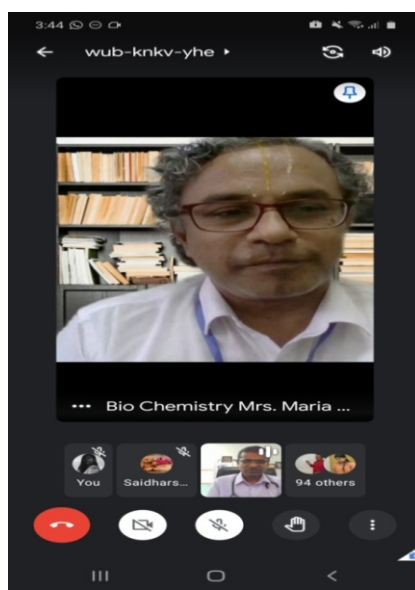
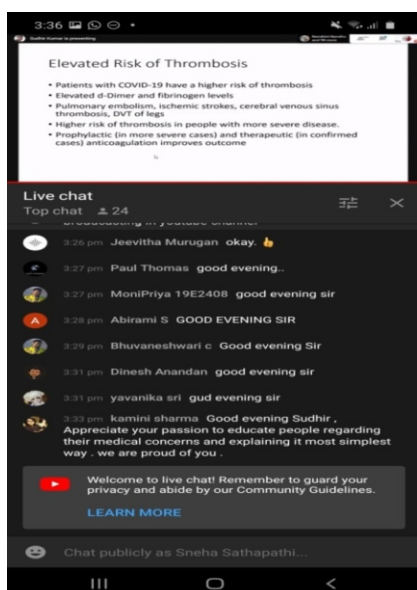
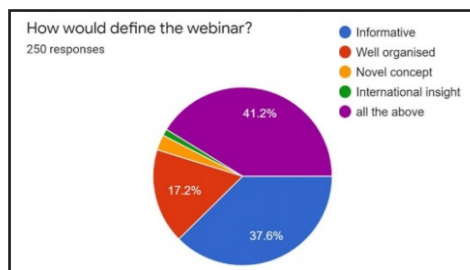
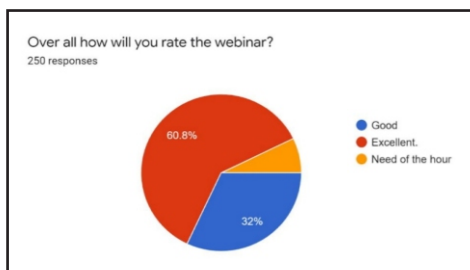
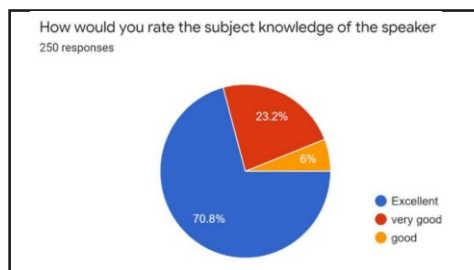
Resource person :



Dr. Sudhir Kumar, MD,
Consultant Neurologist,
Apollo Hospitals, Hyderabad.

Number of participants : 250

Outcomes of the event : ❖ Deeper understanding of myths & facts of COVID-19 infection.
❖ Information, knowledge and learning about precautions to be taken.





Prof. D. VENKATESH

Prof D. VENKATESH has been awarded "BEST ORAL PRESENTATION AWARD" in conference organized by Dr. Ambedkar Govt College in association with Tamil Nadu State Council for Science and Technology, Department of Science and Technology, Government of India on 3rd & 4th August 2020.

Prof. SANGEETHA SATHYANARAYAN

Prof. SANGEETHA SATHYANARAYAN has been awarded HONOUR OF EXCELLENCE IN TEACHING (4 STAR) from Edge India Publishing Private Limited on 15th November 2020.



Prof. S. VAIDEHI

Prof. S. VAIDEHI has been awarded HONOUR OF EXCELLENCE IN TEACHING (5 STAR) from Edge India Publishing Private Limited on 15th November 2020.

Dr. R. UMA

Dr. R. UMA received BEST PAPER PRESENTER AWARD at Biospectrum 2020 an International conference on Biotechnology and Biological science organized on 19-21st November 2020.



Ph.D COMPLETED
THIS YEAR

Dr M. KAVITHA

Title : Phytochemical analysis of *Phyllanthus Acidus* L. Fruit and Anti-apoptotic Effect of its aqueous extract in H9c2 cells
Institution: Bharathiar University, Coimbatore.

- ❖ Prof. S. VAIDEHI & Dr. G. SRIRAM PRASATH published an article on "HPLC identification of Rutin (3, 3', 4, 5, 7- Pentahydroxyflavone-3-rhamnoglucoside) from *Costus pictus* leaves extract and evaluation of its antioxidant activity" in *Asian Journal of Medical and Biological Research*, 6(2), 334-339 on 7-7-2020.
- ❖ Prof. K. NAGALAKSHMI has published an article on "*In-vitro* insight into the impact of diabetes and implant debris on orthopedic implant" in *International Journal of Pharmaceutical Sciences and Research* Page No: 5923-5931, 1-9-2020.
- ❖ Dr. P.T.SRINIVASAN published an article on "An *in vitro* study on the phytochemicals, antioxidant, antidiabetic and cytotoxic properties of a polyherbal formulation". *Journal of Natural Remedies*, 21(6(S1)), 28-37, 9-10-2020.

FACULTIES PARTICIPATION

Type of Program	International	National	State
WEBINAR	22	24	42
PAPER / E-PAPER PRESENTATION	8	-	-
FDP	6	3	14
E-QUIZ	-	4	16
CONFERENCE	3	-	-
WORKSHOP	1	10	6

- ❖ Prof SANGEETHA and S. VAIDEHI Completed ONE WEEK FDP sponsored by MHRD under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching in association with Ramanujan college on "ICT ENHANCED TEACHING LEARNING AND CREATING MOOCs from 18.08.2020 to 25.08.2020



Dr. D. SARAVANAN

Dr. D. SARAVANAN was the Judge for "LINGHUASCIARTIC" an Inter-school competition held at SBOA Matriculation & Hr. Sec. School, Anna Nagar, Chennai on 20.02.2020.



Mr. VYTHEESHWARAN VEDAGIRI

Principal L&D Consultant with GP Strategies Corporation

Hello there,

I would like to share a few words about my experience during my PG days at the Biochemistry department of DGVC college. To be honest, words aren't enough to express the support and encouragement that I received from PTS sir and the rest of the staff from the biochemistry department.

I am able to recollect my days at the department where I received such enormous support - starting from when I took the initiative to set up the first rudimentary microbiology lab at the department, being part of the first edition of Cellutions, which was a massive success, and the numerous talks that I had presented at the department - to name a few. With the support of the department staff, I was able to complete two projects for my final semester and it won high praise from the external examiners from the university.

Visiting the department after all these years gives a warm feeling for me to see our group photo from the first edition of Cellutions still sitting on Sangeetha Mam's desk. My two years at the department has played a significant role in shaping my career.



Ms. SRUTHI

Machine Learning Engineer,
Rudram Phronesis Infra Z Analytics.

I'm thankful to all the faculty members of the department for their encouragement and support throughout my study. College life is one of the most important part of one's life and I'm fortunate to be a member of the Biochemistry Department, and it gives me immense pleasure in saying that I was given complete freedom to explore all avenues with respect to the study which helped me grow academically and hone life skills. In a nutshell, best phase of student life.



OUR ALUMNI REMINISCENCE



Mr. PRASANNA V SHEKAR

Teacher, Marlboro county school district, South Carolina, USA

I can't believe its been 13 years since I graduated from DG Vaishnav college. I did my Masters in Biochemistry from 2006 to 2008. College was an holistic experience. We studied , and also had a nice rapport with the professors and the head of the department. I believe that college is not only a place where one can learn the subject but also it should help one become a better person.

Biochemistry department in DGVC is one such place, which helped me grow personally and professionally. Who could forget the strictness of Uma mam or the guidance of Sangeetha mam . The professors didn't only teach but also role modeled of how we should be. I am proud that our batch was the first to host the best " Cellutions". (Sangeetha mam can vouch for that, she still has our group photo on her table) . The two years in biochemistry department was one of the best moments in my life.



Dr. ANAND DURAI SWAMY

Asst. Manager – New Initiatives
Wheecon Instrument Pvt. Ltd., Chennai

The Alumni Meet at my Alma Mater held on 21/02/2021 at the Lion's Edifice Auditorium was enchanting. With the old students grouping around, recalling the old memories was a different experience. It was the 1st ever alumni meet I have attended and was taken to a different level by our old students, especially, Justice Mr. Prakash, incidentally, an alumnus of my school too.



The contribution of the old students in terms of mentorship to the current students, setting up a corpus, insurance, support to the college for obtaining accreditation from various bodies was also deep delved. I would prefer to attend more such alumni interactions not only at the college level but also at the dept. level soon. This will enable us to co-create an ecosystem for future generations. Having graduated in 2004-2007 (B.Sc.) & 2008-2010 (M.Sc.) personally, I would like to help my juniors in the Biochemistry dept. to understand the level of expertise they require to face the interviews, the skill sets they need to develop to explore more in research.



Dr. ASHOK NARASIMHAN,
Postdoctoral fellow,
University of British Columbia, Canada.

I am Ashok Narasimhan, former postdoctoral fellow in Indiana University, USA and currently continuing my post doctoral training in University of British Columbia, Canada. I did my bachelor's in Biochemistry in DGVC between 2003-2006, which I still consider as a golden period of my academic journey. Fresh from grade 12, to be trained by some of the wonderful Teachers who made sure to teach values along with biochemistry, was the best foundation that an individual could aspire for.

Our batch of 50 students had pretty much every faculty in the department teaching us different topics and made the learning process so much fun. The foundation was laid so strong that I still remember the concepts like it happened yesterday. Apart from being great teachers and mentors, their kindness towards their students is something I have learnt to inculcate. To attest to that, I remain in touch with my teachers to keep them updated about my progress both in professional and personal lives.

I am truly indebted to my wonderful college and my fabulous biochemistry department teachers for being very instrumental in making me what I am today. Our teachers continue to hold the ladder patiently and selflessly, for their students to climb and reach their true potential. That to me is a thankless task.

ARTS & DOODLING



FRESHERS DAY

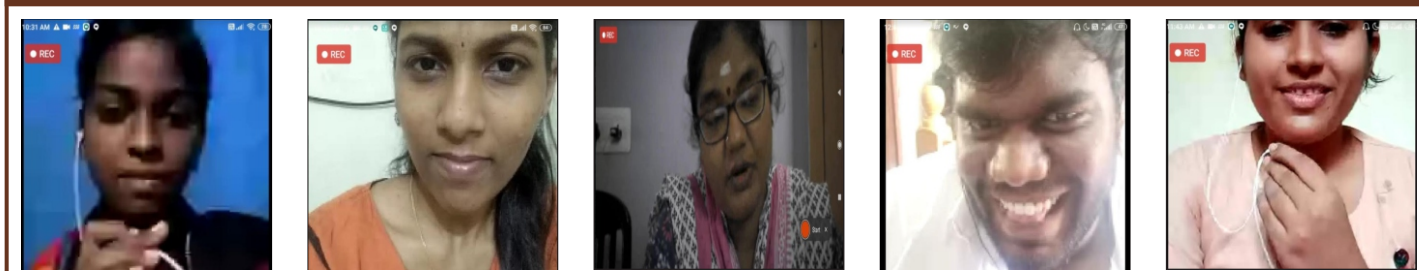
THE FRESHERS PARTY

DÍA FRESCO

we welcome you all to the fun-filled live "freshers day celebration". Mark your presence. Hope you will enjoy

The Event Starts by 12:30Pm
on 18th December 2020

WEB GALA

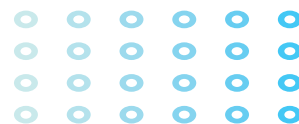


- Dr. R. Uma**, M.Sc.,M.Phil.,M.Sc.(BI),Ph.D.,
Asst. Professor, Dept. of Biochemistry.
- Dr. D. Saravanan**, M.Sc.,M.Phil.,B.Ed.,Ph.D.,
Asst. Professor, Dept. of Biochemistry.
- Dr. M. Kavitha**, M.Sc.,M.Phil.,B.Ed.,SLET.,NET.,
Asst. Professor, Dept. of Biochemistry.
- Mrs. Sangeetha Sathyanarayanan**, M.Sc.,M.Phil.,M.Sc.(Psy),SET.,
Asst. Professor, Dept. of Biochemistry.
- Mrs. S. Vaidehi**, M.Sc.,M.Phil.,M.Sc.(BI),SET.,
Asst. Professor, Dept. of Biochemistry.
- Mrs. K. Nagalakshmi**, M.Sc.,M.Phil.,NET.,SLET.,
Asst. Professor, Dept. of Biochemistry.
- Dr. G. Sriram Prasath**, MSc.,Ph.D.,NET.,
Asst. Professor, Dept. of Biochemistry.
- Dr. P. Indumathi**, M.Sc.,M.Phil.,Ph.D.,
Asst. Professor, Dept. of Biochemistry.
- Dr. D. S. Pushparani**, M.Sc.,M.Phil.,Ph.D.,NET.,
Asst. Professor, Dept. of Biochemistry.
- Mr. D. Venkatesh**, M.Sc.,M.Phil.,(Ph.D.),
Asst. Professor, Dept. of Biochemistry.



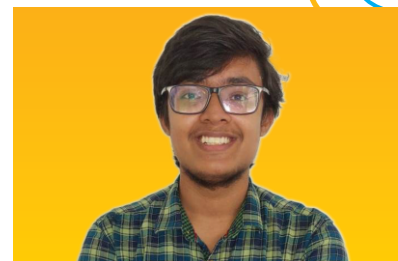
SANJUVIKASINI G.K.

Template Designer
I M.Sc., Biochemistry



SNEHA SATHAPATHI

Content Curator
III B.Sc., Biochemistry



SANTHOSH M.E.

Graphic Designer
II B.Sc., Biochemistry



M. VISHAL

Nomenclator
III B.Sc., Biochemistry



S. PRASANNA KUMAR

Graphic Editor
II B.Sc., Biochemistry



S. SAIDHARSHINI

Proof Reader
II B.Sc., Biochemistry



DARSHINI S.P.

Layout Designer
II B.Sc., Biochemistry





