



Women's
Christian
College

Lighted to Lighten



ACADEMIC ACTIVITIES 2020-2021

PG & RESEARCH DEPARTMENT OF BIOTECHNOLOGY



INDUSTRIAL VIST & WORKSHOP IN GOLDEN JUBLIEE BIOTECH PARK ON

8th FEB- 10th FEB, 2021

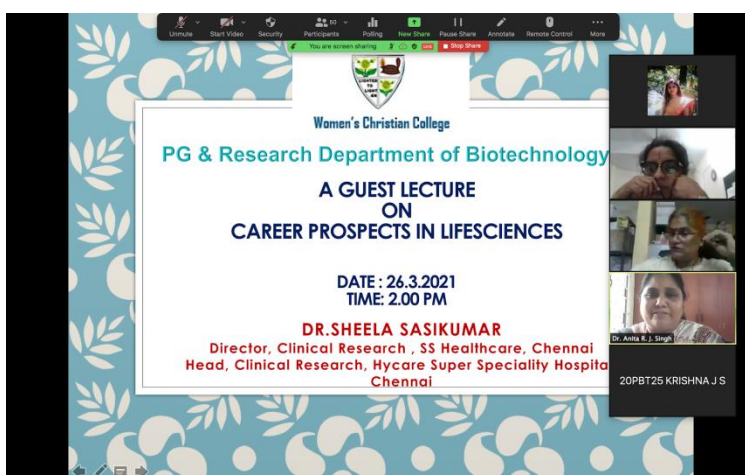
A 3-day training cum workshop on 'Real time PCR -Hands on Training program exclusive for women aspirants' was organized by Golden Jubilee Biotech Park for Women Society, Sipcot , Chennai between **8th -10th February , 2021**. 17 students attended the training program and successfully completed with certification. This workshop was a Bioentrepreneurship for women jointly organized with Entrepreneurship development and Innovation institute, Tamilnadu (EDII-TN). The technical team was from the renowned company Thermo- Fisher, who are pioneers in the field of PCR and related techniques.



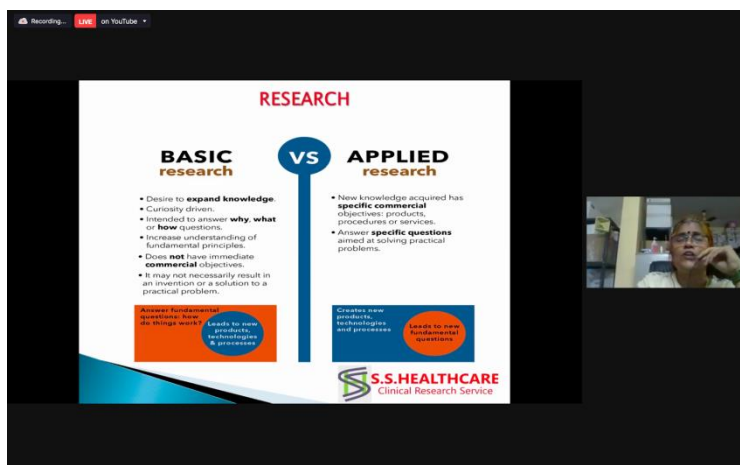
A TALK ON 'CAREER PROSPECTS FOR LIFE SCIENCE STUDENTS'

Speaker: Dr.Sheela Sasikumar , SS Healthcare. Chennai

A guest lecture on 'CAREER PROSPECTS FOR LIFE SCIENCE STUDENTS ' for Postgraduate students of Biotechnology was conducted on **26th March , 2021** from 2.00 p.m. to 3.00 p.m. via the virtual platforms Zoom meet and Youtube channel (Biotech WCC). The programme began with a Welcome address and speaker introduction by Dr.Anita RJ Singh, Associate Professor, Department of Biotechnology. The speaker, Dr.Sheela Sasikumar, addressed the students on topic 'Career Prospects for Life science Students' She has over 25+ years of Counselling experience in Clinical research & Entrepreneurship . She has received various national and International awards to her credit. She spoke on the various career opportunities for life science graduates and also discussed on how to become an Entrepreneur ? and various funding options available for the same. Overall it was an eye opening talk for the student community exposing them to the various career opportunities and guiding them to choose the right career for their future. Dr.Priya R. Iyer , Head of the Department , PG & Research Department in Biotechnology rendered the vote of thanks .Link of the live broadcast is given: <https://www.youtube.com/watch?v=OiZPU-HYDJw>



The image shows a Zoom meeting interface with a central slide. The slide has a blue background with white floral patterns. At the top, it says 'Women's Christian College' and 'PG & Research Department of Biotechnology'. The main title is 'A GUEST LECTURE ON CAREER PROSPECTS IN LIFESCIENCES'. Below that, it lists the date and time: 'DATE : 26.3.2021 TIME: 2.00 PM'. The speaker's name and affiliation are listed: 'DR. SHEELA SASIKUMAR Director, Clinical Research , SS Healthcare, Chennai Head, Clinical Research, Hycare Super Speciality Hospital Chennai'. On the right side of the slide, there are three small video thumbnails showing participants. The Zoom interface at the top shows various controls like 'Unmute', 'Start Video', 'Security', 'Participants', 'Polling', 'New Share', 'Pause Share', 'Annotate', 'Remote Control', and 'More'. A status bar at the bottom of the slide shows '20PBT25 KRISHNA J S'.



The image shows a slide titled 'RESEARCH' comparing 'BASIC research' and 'APPLIED research'. A large blue 'VS' is placed between the two columns. The 'BASIC research' column lists: 'Desire to expand knowledge', 'Curiosity driven', 'intended to answer why, what or how questions', 'increase understanding of fundamental principles', 'Does not have immediate commercial objectives', and 'It may not necessarily result in an invention or a solution to a practical problem.' Below this, it says 'Answer fundamental questions, how things work' and 'Leads to new technologies & processes'. The 'APPLIED research' column lists: 'New knowledge acquired has specific commercial objectives, products, procedures or services', and 'Answer specific questions aimed at solving practical problems.' Below this, it says 'Creates new products, technologies and processes' and 'Leads to new fundamental questions'. At the bottom, the logo for 'S.S. HEALTHCARE Clinical Research Service' is visible. On the right side of the slide, there is a small video thumbnail showing a participant.

POSTER COMPETITION 2020-21

E-Poster competition on 'Environment' was organized by PG & Research Department of Biotechnology on 7.11.2020 through virtual platform between 9.30 am to 2.30 pm. The students of II M.Sc Biotechnology, exhibited various e-posters on current environmental issues and highlighted the applications of recent biotechnological approaches to remediate the pollutions. The students from both UG and PG departments of WCC logged in through the G meet Link - <https://meet.google.com/huz-wsjb-ijp> to view the E posters.

Ms. Anjaly from PG Department of Physics, who is also the co-ordinator of ENVIRO CLUB OF WCC was invited as a judge for the exhibition. Ms. Shanmathy & Ms.Hemalakhmi won the 1st & 2nd prizes for their posters. The exhibition put forth by the students created awareness among the student community about various environmental issues around the globe.

The screenshot shows a Google Meet interface with a presentation titled "AIR POLLUTION" by Vishnuvardhini R. The presentation content includes:

- INTRODUCTION:** Air pollution is a mixture of solid particles and gases in the air. Car emissions, chemicals from factories, dust, pollen and mold spores may be suspended as particles. Ozone, a gas, is a major part of air pollution in cities. When ozone forms air pollution, it's also called smog.
- CAUSES:** Some air pollutants are poisonous. Inhaling them can increase the chance of health problems. People with heart or lung disease, older adults and children are at greater risk from air pollution.
- COMMON INDOOR AIR POLLUTANTS:** A pyramid diagram showing levels of pollutants: Tobacco smoke, Radon, Carbon monoxide, and Volatile organic compounds.
- EFFECTS:** A pyramid diagram showing health effects: Irritation, Asthma, and Lung cancer.
- CONCLUSION:** Air pollution can be reduced by vehicles release many harmful gases in the air. Hence try to drive those cars which run on gas or electricity. If possible minimize the use of personal vehicle and travel by public transport. This way we can also control the problem of pollution. For less amount of carbon emission we can also use renewable energy like wind power which generate negligible amount of harmful gases.

The Meet interface shows a list of participants on the right, including Ms Anjaly Rahal, Dr Priya Iyer, and others.

The screenshot shows a Google Meet interface with a presentation titled "SOIL CONTAMINATION: IT'S CAUSES, EFFECTS AND SOLUTIONS" by Narmatha J. The presentation content includes:

- INTRODUCTION:** Soil pollution is either directly or indirectly as a result of human activities.
- CAUSES:** Deforestation and soil erosion, Overcrowded landfills, Agricultural activities, Mining activities, Industrialization and acid rain.
- EFFECTS:** Change in climate patterns, Effect on human health, Disruption in food chain, Ecological imbalance, Bio-magnification.
- SOLUTIONS:** Make people aware about the concept of reducing, reusing and recycling, Reduced the use of pesticides and fertilizers, Avoid plastic packaging items, Green trees.
- WASTE MANAGEMENT:** Waste generation, Collection of waste, Transportation, Segregation of waste, Disposal of waste (Landfilling, Composting, Bioremediation).

The Meet interface shows a list of participants on the right, including Dr Anitha Devi, 19PBT01 AKSHARAA S R, and others.

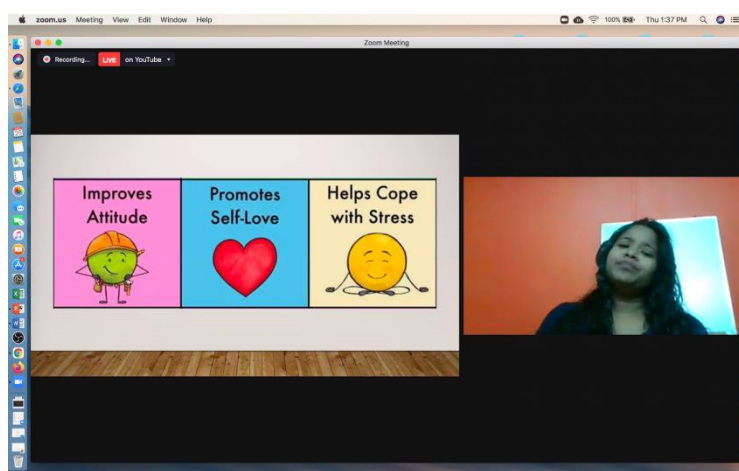
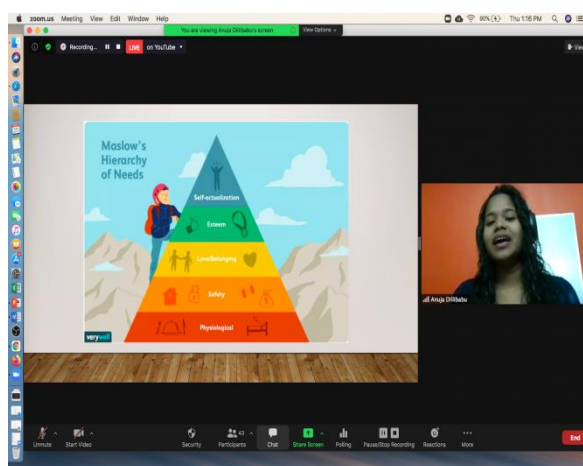
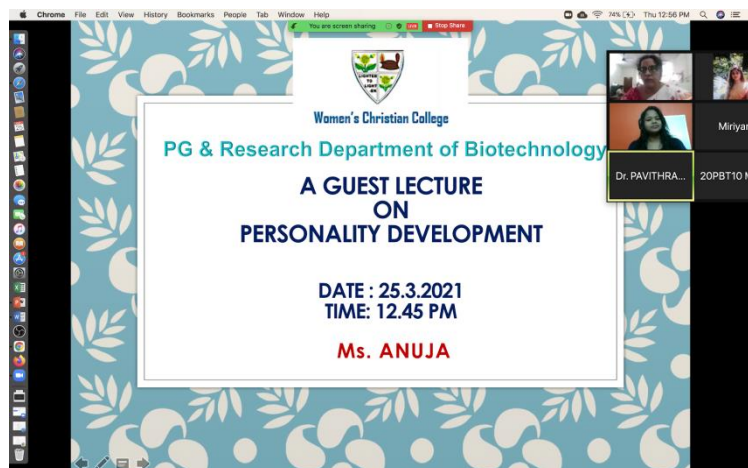
A TALK ON PERSONALITY DEVELOPMENT

Speaker: MS.ANUJA , PARENTOOK

A guest lecture on ' PERSONALITY DEVELOPMENT ' for Postgraduate students of Biotechnology was conducted on **25th March , 2021** from 12.45 p.m. to 2.00 p.m. via the virtual platforms Zoom meet and Youtube channel (Biotech WCC). The programme began with a Welcome address by Dr.Priya, Head of the Department Biotechnology. . The speaker was introduced by Dr.Pavithra , Assistant Professor , PG & Research Department in Biotechnology. Vote of thanks was rendered by Dr.Priya Iyer, Head of the Department.

The speaker, Ms.Anuja , addressed the students on topic 'Personality development'. She has over 3+ years of Counselling experience in Psychiatry . She works for an International organization as HR professional. The session was filled with practical examples and activities .Overall it was an eye opening talk for the student community regarding the importance of mental health in improving their own personality.

Link of the live broadcast: <https://www.youtube.com/watch?v=poZbHuf81kc>



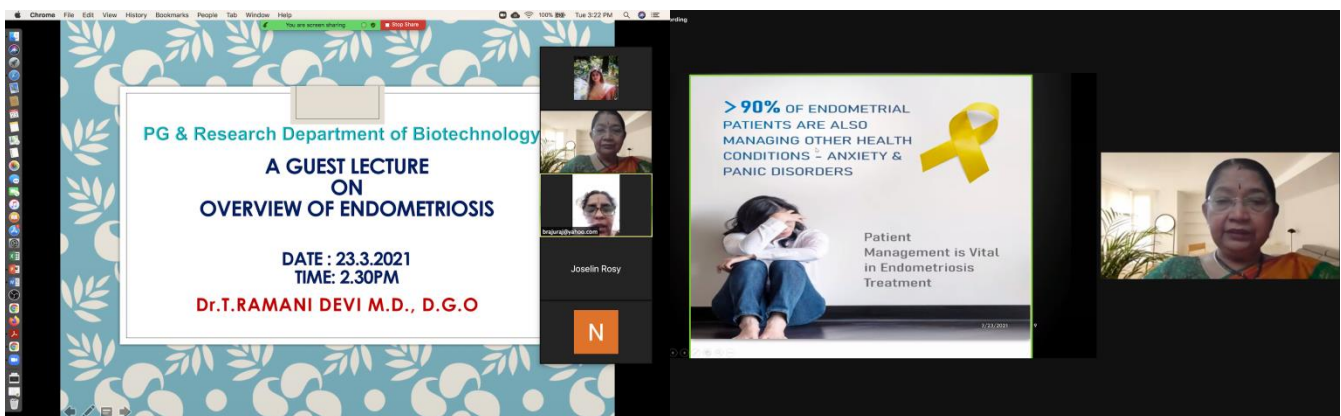
A TALK ON 'AN AWARENESS ON ENDOMETRIOSIS '

Speaker: Dr. T.Ramani Devi, Consultant Obstetrics and Gynaecologist , RMC, Trichy

A guest lecture on ' ENDOMETRIOSIS ' for Postgraduate students of Biotechnology was conducted on **23rd March , 2021** from 2.30 p.m. to 3.30 p.m. via the virtual platforms Zoom meet .The programme began with a Welcome address by Dr.Pavithra, Assistant Professor, Department of Biotechnology. . The speaker was introduced by Dr.Anchana Devi , Assistant Professor , PG & Research Department in Biotechnology.

The speaker, Dr T.Ramani Devi , addressed the students on the topic 'An Awareness on Endometriosis'. She has over 33 years of medical practice experience in Gynaecology . She has received various national and International award to her credit. She has visited many countries to deliver lectures on reproductive wellness for women. She has authored various chapters for books and been an editor for quite a few books . In her talk to the students, she highlighted the causes , symptoms and prevention of Endometriosis and also on the management of the condition . Overall it was very useful information on Endometriosis, which is considered to be on the higher rate among the reproductive age group of Women.

Vote of thanks was rendered by Dr.Priya Iyer , Head department of Biotechnology.



A TALK ON WOMEN & WELLNESS

Speaker: Dr. C.Archana Devi Devi, Consultant Obstetrics and Gynaecologist , Apollo Hospitals , MUSCAT

A guest lecture on ' Women and Wellness ' for Postgraduate students of Biotechnology was conducted on **26th March , 2021** from 11.30 p.m. to 1.00 p.m. via the virtual platforms Zoom meet and Youtube channel (Biotech WCC). The programme began with a Welcome address by Dr.Pavithra Assistant Professor, Department of Biotechnology. . The speaker was introduced by Dr.Archana Devi, Assistant Professor , PG & Research Department in Biotechnology.

The speaker, Dr C.Archana Devi , addressed the students on topic 'Women and Wellness'. She has over 10 years of medical practice experience in Gynaecology , She has received various national and International award to her credit. She has visited many countries to deliver lectures. He has published research articles in the refereed national and international journals. She has authored various chapters for books .She highlighted on the problems faced by women at different stages of life as Adolescents , Reproductive age group , Perimenopausal issues and Post-menopausal issues - disease symptoms and prevention methods and management of the condition .She insisted on healthy lifestyle modifications, that has to be adopted by young women to sustain a better health in later years. Overall it was a very informative talk for the student community regarding the health issues faced in women's life and ways to overcome health issues in future. Vote of thanks was rendered by Dr.Pavithra .Link of the live broadcast: <https://youtu.be/8samcA1vg8c>

The image shows two screenshots from a virtual event. The left screenshot is a Zoom meeting window displaying a presentation slide. The slide is from Women's Christian College, PG & Research Department of Biotechnology, and is titled "A GUEST LECTURE ON WOMEN & WELLNESS". It lists the date as 26.3.2021 at 11.30 AM and the speaker as Dr. ARCHANA DEVI M.D., (OG) APOLLO, MUSCAT. The right screenshot is a YouTube video recording of the same lecture. The slide content is as follows:

ADOLESCENCES-TENDER AGE- BODY AND MIND UNDERGOES VARIOUS CHANGES

10 commandments

1. Educate girl children about menarche, physical changes in body
2. Menstrual hygiene
3. Healthy diet (veggies, fruits, milk, pulses and cereals)
4. Adequate physical activity (sports, dance, yoga etc)
5. Adequate sleep
6. Vaccination – inj rubella
inj gardasil
7. Use of dioxin free napkins
8. Sexual education
9. Restrict gadgets
10. Communication

IRREGULAR CYCLES > 1YR OR HEAVY BLEEDING OR DYSMENORRHEA CAUSING ABSENCE FROM REGULAR WORK IS CONSIDERED SERIOUS