

Programme Report - 1

Name of the Department

: Biotechnology

Date

: 20.09.2021 AN

Name of the Programme

: Inauguration of Creauctus Association Activities 2021 - 2022

and a Guest Lecture on "Current Trends in Biophysics"

Venue

: Virtual Platform

Objective of the Programme : To update students about the Current Trends in Biophysics

Resource Person

: Dr.M.N.Ponnusamy, UGC Emeritus Professor

Department of Biophysics and Crystallography

University of Madras, Chennai

Beneficiaries

: 150 (UG Biotechnology)

Outcome of the Programme:

Students were able to get the concept of Biophysics in an interesting manner. Lecture concentrated on structure of biomolecules, analyzing its 3D structures, applications of biophysical techniques in life science. The concept of Nanoscience was introduced to students which will help them for the further analysis and characterization of nanoparticles. At an outset the Guest Lecture increases the skill of a student in various dimensions.





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Programme Report - 2

Name of the Department

: Biotechnology

Date

: 25.10.2021 FN

Name of the Programme

: Extension Activity - Awareness Program on Breast Cancer

Objective of the Programme

: To create awareness on breast cancer to the Women in

Nasiyanur village

Beneficiaries

: 50 (Village Women)

Outcome of the Programme

Under DBT Star College scheme Department of Biotechnology has arranged for a Public awareness program on Breast Cancer. October has been designated as a Pink month to raise awareness on Breast cancer. As an initiative B.Sc Biotechnology students on 25.10.2021, went to Nasiyanur Panchayat for educating Women on early identification, signs and symptoms of Breast Cancer. The Program enlightened the women community about the risk factors related to Breast cancer and they enthusiastically clarified their doubts accordingly.





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Programme Report - 3

Name of the Department

: Biotechnology

Date

: 30.10.21

Name of the Programme

: Alumni Interaction - CreauMeet -2021

Objective of the Programme

: To educate students about the process of getting into higher education, the scope of placement

and entrepreneurship

Beneficiaries

: 130 (UG Biotechnology)

Outcome of the Programme

As a part of DBT Star College scheme activities, Department of Biotechnology has arranged for an "Alumni Interaction - CreauMeet -2021" for UG Biotechnology Students. The interaction session was between Alumni of 2020 and 2021 and current UG Students. During the session, the Alumni shared their experience of getting into higher education, the scope of placement and entrepreneurship. Through this, students were able to gain knowledge about the post degree process.





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Programme Report - 4

Name of the Department

: Biotechnology

Date

: 30.10.2021 FN

Name of the Programme

: One Day Workshop on Fermentor Handling

Objective of the Programme

: To develop the Student's Skill in working with Lab scale Fermentor and get familiarized with the Principle, Parts and

Working Mechanism

Resource Person

: Mr.R.Hemanth Kumar, Senior Research Executive,

Eastman Group of Companies, Tirupur

Beneficiaries

: 40 (III UG Biotechnology Students)

Outcome of the Programme

As a part of DBT Star College scheme activities, Department of Biotechnology has arranged for a One Day Workshop on Fermentor Handling for III UG Biotechnology Students. The workshop

focused on the Principle, Parts, Working and Applications of Fermentor in production of Industrial Products. The students were extremely benefited by understanding the commercial

applications of a Fermentor and upgraded their Equipment Handling Skills.





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Programme Report - 5

Name of the Department

: Biotechnology

Date

: 03.11.2021

Name of the Programme

: Outreach Activity – Teaching by Taught – To Infuse Science Temperament among Orphanage Students

Objective of the Programme

: To inculcate the Importance of Science among Secondary and Higher Secondary Students and to motivate them for their Scientific contribution.

Venue

: Tirupur Social Service Organization (TISSO), Tirupur

Beneficiaries

: 50 (Secondary and Higher Secondary Students of

(TISSO), Tirupur

Outcome of the Programme

As a part of DBT Star College scheme activities, Department of Biotechnology has arranged for an Outreach Activity to Infuse Science Temperament among Orphanage Students. The Student representatives from B.Sc Biotechnology were taken to Tirupur Social Service Organization (TISSO), Tirupur to educate the significance of Science among Secondary and Higher Secondary Orphan Students. Students participated in the Demo sessions and were highly responsive for the Competitions. Prizes were distributed for their energetic participation.





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Programme Report - 6

Name of the Department

: Biotechnology

Date

: 03.11.2021

Name of the Programme

: Interdisciplinary Webinar on "Gynecological concerns in Young Adults" for girl Students of all departments

Objective of the Programme

: The objective of the programme is to educate and create awareness on common Gynaecological problems girls

students encounter in their day to day life.

Venue

: Virtual platform

Beneficiaries

: Around 1200 students

Outcome of the Programme

Department of Biotechnology, Kongu Arts and Science College organized an Interdisciplinary Webinar on Gynecological Concerns in Young Adults for girl students under DBT STAR COLLEGE Scheme. Around 1200 girl students of the college participated in the programme and got benefited. Dr.K.Anupriya MBBS., MD (OG)., from PSG Institute of Medical Science and Research, Coimbatore served as the resource person and highlighted on various Gynecological problems like Ovarian cysts, Pelvic pain, Endometriosis, Uterine fibroids, Polycystic ovarian syndrome (PCOS), Genital tract infections and Sex education. Students actively participated in the program and cleared their doubts.





YouTube link details: https://www.youtube.com/watch?v=ZjC8xO05Z6Q

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Programme Report - 7

Name of the Department

: Biotechnology

Date

: 18.11.2021 FN & AN

Name of the Programme

: Hands on Training in "Laboratory Instrumentation"

Venue

: Biotechnology Lab

Objective of the Programme: To educate students about the instrumental handling

Resource Person

: Mr.A.P.Thangadurai

Proprietor

The Scientific Engineering Works

Coimbatore

Beneficiaries

: 45 (II B.Sc., Biotechnology Students)

Outcome of the Programme:

Students were able to get knowledge about instrument handling in an exciting manner. Workshop focused on the usage of instruments like Microscope, Autoclave, Incubator, Hot air oven, Centrifuge, Magnetic stirrer and its applications in Biotechnology field. Getting information about the procedure of instruments will help them for project and their future research in life science. At an outset the Workshop increases the skill of handling laboratory instruments.



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Programme Report - 8

Name of the Department

: Biotechnology

Date

: 22.11.2021 FN & AN

Name of the Programme

: One Day Workshop on "Invitro Culture of Animal Cells

and its Applications"

Venue

: Biotechnology Lab

Objective of the Programme

: To develop the skill set of students to culture Animal

cells.

Resource Person

: Dr. Thamaraiselvan Rengarajan

Scientist

Scigen Research and Innovation Pvt. Ltd

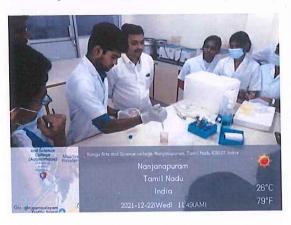
Thanjavur

Beneficiaries

: 46 (II B.Sc., BIOTECHNOLOGY)

Outcome of the Programme

Students were able to obtain knowledge about culturing of Animal cells in an exciting manner. The workshop focused on the requirements of animal cell culture, media used for culturing animal cells, development of cell lines and the methods used for preservation. This would help the students to involve themselves for project and research areas. At an outset of the workshop students gain the knowledge about animal tissue culture.





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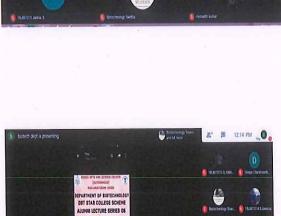
KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), ERODE

DEPARTMENT OF BIOTECHNOLOGY

DBT STAR COLLEGE SCHEME

Alumni Guest Lecture series 6 Biological Process of Effluent Treatment REPORT





Alumni Guest Lecture series 6 Biological Process
of Effluent Treatment

DATE: 05.12.2021

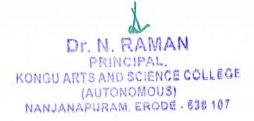
BENEFICIARY: UG Students of Biotechnology

RESOURCE PERSON: Mr. R. Gowtham Krishna
Alumni(2009-2012 Batch)
ETP Manager, Dollar Apparel Limited,
Sipcot, Perundurai

Nature of Waste water, its Hazardous Effect and the methods for treating the effluent water was described. Effluent treatment plant commonly known as ETP or ETP plant, is a waste water treatment process (WWTP) used for treating the waste water and to meet pollution board laid disposal guidelines and norms.

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Programme Report - 9

Name of the Department

: Biotechnology

Date

: 14.12.2021 AN

Name of the Programme

: Students Presentation Competition

Venue

: Zoom

Objective of the Programme : To gain knowledge on Ecosystem and its restoration

Beneficiaries

: 100 (UG BIOTECHNOLOGY)

Outcome of the Programme

The World Energy Conservation Day was celebrated on 14.12.2021. On this occasion, the Students participated and presented innovative ideas about the Energy Conservation, Global Warming and Ecosystem. The students quoted interesting strategies and also how to reduce, reuse and recycle the products in the Universe. Among the participants, best presenters were selected and honoured with Books. This celebration proved to be a highly valuable platform for students and enhauncing their skill in presentation.

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Programme Report - 10

Name of the Department

: Biotechnology

Date

: 28.12.2021

Name of the Programme

: Educational Visit

Objective of the Programme

: To obtain knowledge about Extraction and utilization of

Starch as a byproduct in various industries.

Venue

: SPAC Starch Products (India) Ltd., Anthiyur.

Beneficiaries

: 46 (III B.Sc., BIOTECHNOLOGY)

Outcome of the Programme

An academic Industrial visit to SPAC Starch Products (India) Ltd., Anthiyur was organized for Students of II B.Sc., Biotechnology under DBT Star College Scheme on 28.12.2021. It helped students to get an exposure of industrial experience. They gained knowledge about the extraction of Starch from Tapioca and Maize and its utilization as a byproduct in Pharma and Food sectors.



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Programme Report - 11

Name of the Department

: Biotechnology

Date

: 28.01.2022

Name of the Programme

: Webinar cum Virtual Workshop on "Microbial

Identification and Genomics"

Objective of the Programme

: To educate the students about various forms of Corona

Virus and Genomics tools for Microbial Identification

Resource Person

: Dr.Prasanth Manohar Post Doctoral Fellow

Zhejiang University- University of Edinburgh Institute (ZJE)

Zhejiang University School of Medicine, China.

Beneficiaries

: 100 (UG BIOTECHNOLOGY STUDENTS)

Outcome of the Programme

The students gained knowledge about the history of the Corona viruses, types of Corona viruses and its mode of infection. Students had a better understanding about evolution of Corona viruses and its continuous mutations. Through the virtual workshop student's acquired knowledge on Sanger sequencing, Primer design by primer3 web software, Genome annotation using RAST server. This information leads the students to go for their higher studies and research.





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Programme Report - 12

Name of the Department

: Biotechnology

Date

: 22/02/2022

Name of the Programme

: Farm Visit to RR Aqua Industries, Modakurichi.

Objective of the Programme

: To educate the students about the manufacturing of

Aqua water.

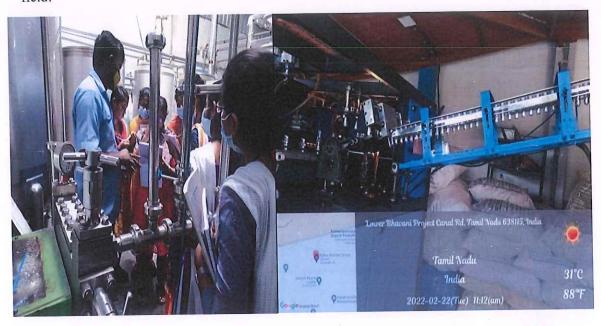
Beneficiaries

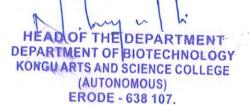
: 50 (III B.Sc., BIOTECHNOLOGY)

Outcome of the Programme

:

In this visit, students learnt about the manufacturing of Aqua water. The officials in the industries gave a detailed explanation about the purification of water. They briefly gave a note on the cleaning process carried out in their industry. Also they demonstrated the steps involved in the juice manufacturing. They interacted with students and gave them clarity on their doubts. They provide a detailed working experience and the knowledge that students can acquire in this field.









Programme Report - 13

Name of the Department

: Biotechnology

Date

: 22/02/2022

Name of the Programme

: An Extension activity on "Awareness and Prevention of

Dengue Fever"

Objective of the Programme

: To aware the students regarding Dengue Fever

Beneficiaries

: Students of Government Boy's Higher Secondary School,

Perundurai

Outcome of the Programme

The presentation given by Dr.S.K.Gangai Abirami on awareness and prevention of Dengue Fever was informative and also applicable in day today life style. Also Ms.Srimathi Snekha of III BSc Biotechnology explained the importance of Medicinal Plants using PPT and chart works. The students of Government Boy's Higher Secondary School interacted well and raised questions on the topics and were clarified. Various competitions like Debate and Quiz were conducted among the students and were rewarded with prizes. The Government Boys were so happy and assured that they will spread the information gained to others.



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Programme Report - 14

Name of the Department

: Biotechnology

Date

: 24/02/2022

Name of the Programme

: A One Day Workshop on "Food Packaging: Quality

Control and Safety Considerations"

Venue

: Quantity Training Kitchen (Dept of Catering Science and

Hotel Management)

Objective of the Programme

: Students came to know some techniques employed in the

food packaging industries and to check the quality of the

product they are using in their day to day life.

Resource Person

: Mr. Sathish Chandrasekaran,

Excutive Chef,

CAG Pride, Coimbatore.

Beneficiaries

: 80 (UG BIOTECHNOLOGY)

Outcome of the Programme

In this Workshop, Sathish Chandrasekaran highlighted about the Food Packaging Techniques and the parameters to be considered during packaging. Also, he explained about the techniques used in checking the Quality of the packed food and Safety precautions to be done while purchasing and consuming the processed food items. He also demonstrate the preparation of few recipes and encourage students to involve themselves.



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Programme Report - 15 (DAY-2)

Name of the Department

: Biotechnology

Date

: 25/02/2022 & 26/02/2022

Name of the Programme

: A Two Day Hands on Workshop on "Analysis of Secondary Metabolites and Histochemical Screening

Techniques"

Venue

: UG Biotechnology Lab

Objective of the Programme

: To educate the students about scope and uses of

Histochemistry

Resource Person

: Dr.V. Nandhagopalan,

Vice Principal and Associate Professor,

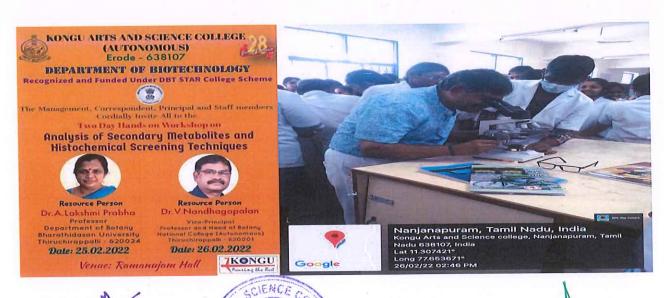
National College, Trichy.

Beneficiaries

: 50 (III B.Sc., BIOTECHNOLOGY)

Outcome of the Programme

In this Workshop, Dr.V. Nandhagopalan highlighted about the scope and uses of Histochemistry and the recent advancements in the field of Biotechnology. He explained about the Metabolism and the types of metabolites that are essential for plant growth. He briefly gave a note on the types of Chemical analysis. And he a demonstration on the steps involved in Histochemical analysis of various plant samples. He interacted with students and also encouraged themselves in the demonstration.



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Programme Report - 15 (DAY-1)

Name of the Department

: Biotechnology

Date

: 25/02/2022 & 26/02/2022

Name of the Programme

: A Two Day Hands on Workshop on "Analysis of Secondary Metabolites and Histochemical Screening

Techniques"

Venue

: UG Biotechnology Lab

Objective of the Programme

: To educate the students about Plant growth regulators and

its functions.

Resource Person

: Dr. A. Lakshmi Prabha,

Professor and Head, Department of Botany,

Barathidasan University, Trichy. : 50 (III B.Sc., BIOTECHNOLOGY)

Beneficiaries

Outcome of the Programme

In this Workshop, Dr. A. Lakshmi Prabha highlighted about the History and scope of the Plant tissue culture. She gave a detailed explanation about the Plant growth regulators and its function. She also shared her views about Primary and Secondary Metabolites. Also, she demonstrated the steps and techniques involved in Hairy Root Culture. She encouraged students to shared their views on plant tissue culture and explained them about her research works.





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