



Since 1951

**P.G. & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)**

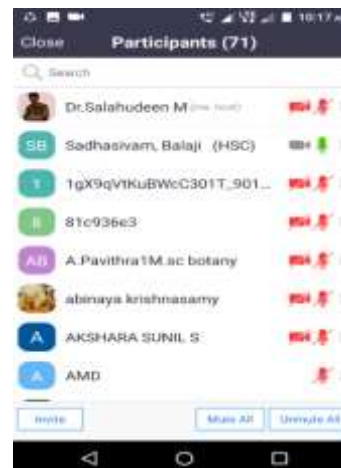
College with Potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST-FIST funded
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI- 620 020



Department of Biotechnology


ACTIVITIES UNDER DBT STAR COLLEGE SCHEME FOR THE ACADEMIC YEAR 2020-2021


MARCH & APRIL



21-days **ONLINE SUMMER TRAINING COURSE ON ADVANCES IN LIFESCIENCES** from 29th March 2020 to 18th April 2020 through ZOOM ONLINE. The Online training consisted of a series of lectures from Lifesciences. Nearly 80 participants from reputed institutions participated in the Course.

MAY

 **P.G. & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE** (Autonomous)
College with Potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST-FIST funded
(Affiliation to Bharathidasan University)
TRUCHIRAPPALLI-620 020

 Department of Biotechnology

Cordially invites you to participate in the Webinar session on

COVID19: Break the chain

On 7th May 2020, 11. A.M
@ ZOOM ID : **5756458080**
Password: **JMCzoology**


Dr. DANIEL CHELLAPPA. J
Eminent Scientist, Chennai

For enquiry:
Dr. A. SADIQ BUKHARI
Assistant Professor of Zoology
+91 98433 80146

All are Welcome



One day **Webinar on Covid-10 Break the Chain** was conducted on 07.05.2020 at 11.00 AM through Zoom Online. The session was handled by the Eminent Scientist Dr. J. Denial Chellappa, Chennai.

JULY

P.G. & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI-620 020

Hands on Training on Microtechniques
(DBT STAR - Student Enrichment Programme)
Date: 08.07.2020 Time : 12.30AM @ ZOOM Online

Dr. A. SADIQ BUKHARI,
Assistant Professor of Zoology,
Jamal Mohamed College, Tiruchy

Registration Link : <https://forms.gle/wd3NpF3oVek3VVD6o>

MICROTECHNIQUE
(Histology of Animal Cell)

Dr. A. SADIQ BUKHARI
Assistant Professor
P.G. and Research Department of Zoology,
Jamal Mohamed College, Tiruchirappalli

Sectioning: Ribbon of sections

Hands on Training on Micro technique for students on 08.07.2020 at 12:30 PM through Zoom Online. The session was handled by Dr.A.Sadique Bukhari, Assistant Professor of Zoology, Jamal Mohamed College.

P.G. & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI-620 020

Online Training on Electrophoresis
(DBT STAR - Student Enrichment Programme)
Date: 09.07.2020 Time : 11.30 AM @ ZOOM Online

Dr. S. Mohamed Hussain
Assistant Professor of Zoology,
Jamal Mohamed College, Tiruchy

Registration Link : <https://forms.gle/gFemJPhr3C3y6yF0A>

AGAROSE GEL ELECTROPHORESIS

Definition
Separation of charged particle in an electric field.
Most commonly used for biomolecule separation
such as DNA and RNA

Father of Electrophoresis
Arne Tiselius
(Sweden, 1902-1971)
Nobel Prize in Chemistry 1948
"For his research on electrophoresis and adsorption analysis, especially for his discoveries concerning the complex nature of the serum proteins"

Running the gel

- Connect the cover on the gel rig.
- Connect the leads to the power supply.
- Remember the DNA migrates towards anode.
- Run the gel 5 volt per cm between leads, normally 50 V is adequate and 60-100 mA
- Stop the run when the dye marker is approximately 2/3 of the way down the gel.

Online Training on Electrophoresis on 09.07.2020 at 11:30 AM through Zoom. The session was handled by Dr.S.Mohamed Hussain, Assistant Professor of Zoology, Jamal Mohamed College.

PG & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
 College with Potential for Excellence
 Accredited (3rd Cycle) with 'A' Grade by NAAC
 DBT Star Scheme & DST-FIST funded
 (Affiliated to Bharathidasan University)
 TIRUCHIRAPPALLI- 620 020

Department of Biotechnology

Online Workshop on Insect Pest Management
 (DBT STAR - Student Enrichment Programme)
 Date: 10.07.2020 Time : 11.30 AM @ ZOOM Online





Dr. M. Aneez Mohamed
 Associate Professor of Zoology
 Jamal Mohamed College, Tiruchir.

Registration Form : <https://forms.gle/AUMWjrmGcoSgn4PA7>

Workshop Objective
 To provide the students with required information regarding the common Insect pests of crops in terms of their classification, hosts, damage, pest status, history, distribution and control.

Workshop learning Outcomes (WLO)
 At the end of this workshop, students should be able

1. to identify and describe the common pests of crops
2. to know the host plants that may be attacked by these insect pests
3. to know the life history of pests especially their life stages and places of existence
4. to know the effective control measures that may be undertaken against these pests.



Order Coleoptera
Beetles and Weevils

Four wings: the first pair thickened or hardened
 a) First pair of wings usually as long as **elaboration** protecting second pair of wings that are membranous



Notes Comments



Online Workshop on Insect Pest Management on 10.07.2021 at 11:30 AM through ZOOM. The session was handled by Dr.M.Aneez Mohamed, Associate Professor of Zoology, Jamal Mohamed College.

PG & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
 College with Potential for Excellence
 Accredited (3rd Cycle) with 'A' Grade by NAAC
 DBT Star Scheme & DST-FIST funded
 (Affiliated to Bharathidasan University)
 TIRUCHIRAPPALLI- 620 020

Department of Biotechnology

Workshop on Vermitechnology
 (DBT STAR - Student Enrichment Programme)
 Date: 11.07.2020 Time : 11 AM @ ZOOM Online




DR. M. MEERAMAIDEEN
 Assistant Professor of Zoology
 Jamal Mohamed College, Tiruchir.

Registration Link : <https://forms.gle/4s7vylapRmqyQRA>

PG & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
 College with Potential for Excellence
 Accredited (3rd Cycle) with 'A' Grade by NAAC
 DBT Star Scheme & DST-FIST funded
 (Affiliated to Bharathidasan University)
 TIRUCHIRAPPALLI- 620 020

Department of Biotechnology

WORKSHOP ON VERMITECHNOLOGY



Presented by

Dr. M. MEERAMAIDEEN
 Assistant Professor of Zoology
 Jamal Mohamed College, Tiruchir.



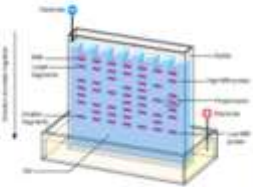

Workshop on Vermitechnology on 11.07.2020 at 11 AM through Zoom platform. The session was handled by Dr.M.Meeramaideen, Assistant Professor of Zoology, Jamal Mohamed College

AUGUST

P.G. & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
 College with Potential for Excellence
 Accredited (3rd Cycle) with 'A' Grade by NAAC
 DBT Star Scheme & DST-FIST funded
 (Affiliated to Shree Siddhaganga University)
 TIRUCHIRAPPALLI- 620 020

Department of Biotechnology

Online Workshop on Methods in Protein Separation and Quantification
 (DBT STAR - Student Enrichment Programme)
 Date: 07.08.2020 Time : 05.00 PM @ ZOOM Online

Dr. Kanagaraj Palaniyandi
 Assistant Professor (S.G.)
 Department of Biotechnology, School of Bioengineering,
 SRM Institute of Science and Technology,
 Kattankulathur campus,
 Chennai.

Sample preparation

Take 100mg tissue or 10⁷ cells

Keep the tissue or cells on the ice

Tissue/cells will be lysed in RIPA buffer composed of protease inhibitor – ice-cold



Tissue will be lysed in mortar and pestle in ice-cold condition

Collect the lysate in micro-centrifuge tubes

Centrifuge at 8000 x g at 4°C for 30 min

Collect the supernatant

Protease inhibitor

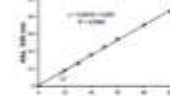






RIPA BUFFER
 20 mM Tris-HCl (pH 7.5) 150 mM NaCl, 1 mM Na2EDTA 1 mM EDTA 1% NP-40
 1% sodium dodecylsulfate 2.5 mM sodium pyrophosphate 1 mM β-glycerophosphate 1 mM Na3VO4 1 μg/ml leupeptin

Total protein quantification

Total protein quantification: ~~Lowry method~~ / Coomassie blue/ Bradford's method. ~~ES~~

The absorbance will be quantified by UV SPEC / microplate readers

Online Workshop on Methods in Protein Separation and Quantification on 07.08.2020 at 5:00 PM through Zoom. The session was handled by Dr. Kanagaraj Palaniyandi, Assistant Professor (S.G), Department of Biotechnology, School of Bioengineering, SRM Institute of Science and Technology, Kattankulathur campus, Chennai.

P.G. & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
 College with Potential for Excellence
 Accredited (3rd Cycle) with 'A' Grade by NAAC
 DBT Star Scheme & DST-FIST funded
 (Affiliated to Shree Siddhaganga University)
 TIRUCHIRAPPALLI- 620 020

Department of Biotechnology

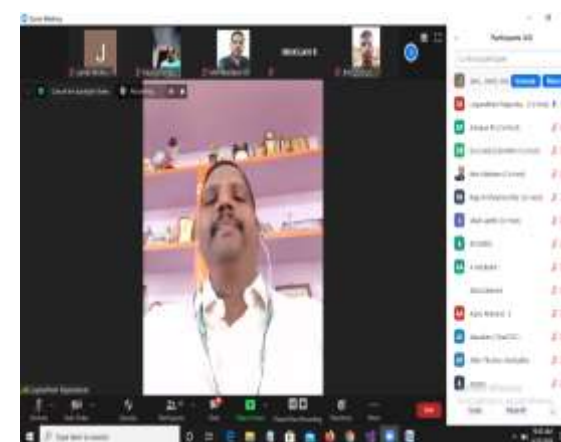
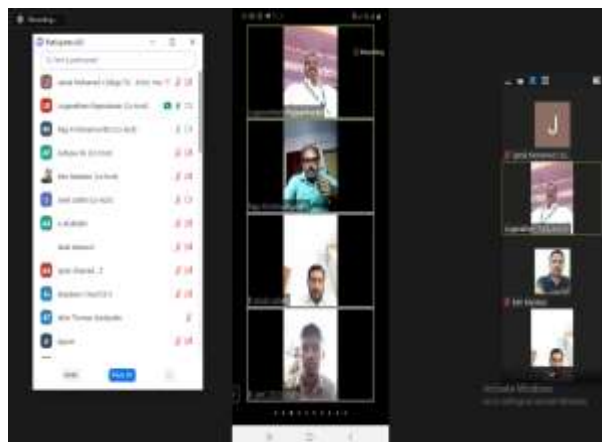
Online Workshop on Sustainable Integrated Farming System (SIFS) - A Successful Model
 (DBT STAR - Student Enrichment Programme)
 Date: 22.08.2020 Time : 10.00 AM @ ZOOM Online



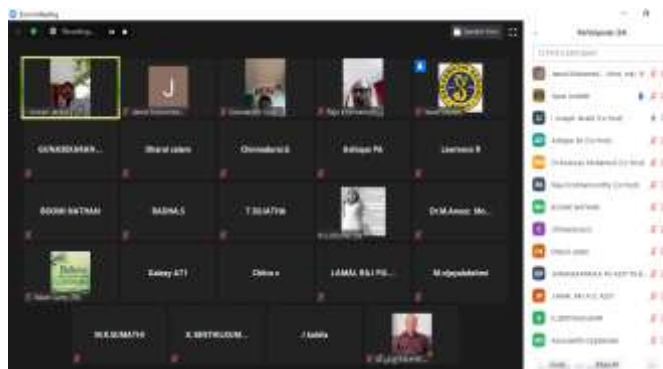

Dr. Shanmugam Anbaraman
 Assistant Professor
 Department of Environmental Microbiology,
 School of Environmental Sciences,
 SRM Institute of Science and Technology,
 Chennai.




Online Workshop on Sustainable Integrated Farming System(SIFS) – A Successful Model on 22.08.2020 at 10:00 AM through Zoom. The session was handled by Dr. Shanmugam Achiraman, Associate Professor, Department of Environmental Biotechnology, School of Environmental Sciences, Bharathidasan University, Chennai.



Online Training Programme on Student Projects in Life Sciences on 23.08.2020 at 10:30 AM through Zoom. The session was handled by Dr. L. Rajasekaran, Assistant Professor, Department of Physics, Arignar Anna Government Arts College, Chennai.



DBT-Star Faculty Outreach Programme on the Topic **“Essentials of Values and Ethics in the Post Covid Era”** on 25.08.2020 at 11:00 AM through Zoom online. The session was handled by Dr.I.Joseph A. Jerald, Associate Professor, Department of Zoology, Jamal Mohamed College.



DBT-Star Faculty Outreach Programme on the Topic **“Virtual Classroom – Need of the hour”** on 27.08.2020 at 10:30 AM through Zoom online. The session was handled by Dr.M.Aneez Mohamed., Associate Professor, Department of Zoology, Jamal Mohamed College.

SEPTEMBER



PG & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (2nd Cycle) with 'A' Grade by NAAC
OBT Star Scheme & DST-FIST funded
(Affiliated to Bharathidasan University)
TRUCHIRAPPALLI- 620 020

Department of Biotechnology

Webinar on Fermentation Technology
(DDEI STAR - Student Exchange Programme)
Date: 20.09.2020 Time : 11.00 AM @ Microsoft Teams



Dr. N. Manivannan
Assistant Professor
Department of Biology
Gandhigram University, Dindigul

Registration : <https://forms.gle/w64E1j8c7gQ3MEg8>



Batch & Fed Batch Fermentation

Fed intermittently



Webinar on FERMENTATION TE...

Participants: RP, US, N002, IR, Mohamed F., IRSHATHA, Kannadasan

Webinar on Fermentation technology on 20.09.2020 at 11: AM through Microsoft teams online. The session was handled by Dr. N. Manivannan, Assistant Professor, Department of Biology, Gandhigram University, Dindigul.

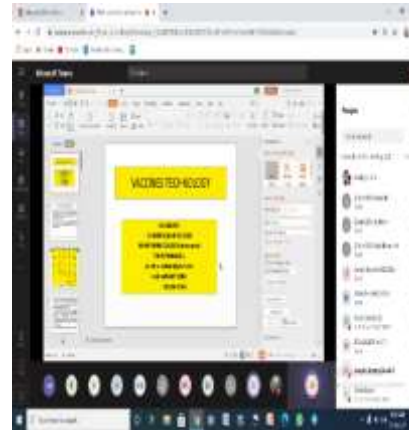
PG & RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (3rd Cycle) with B Grade by NAAC
DET Star Scheme & DET-FIST funded
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI- 620 020

Webinar on Vaccine Technology
(DIT STAR - Student Enrichment Programmes)
Date: 27.09.2020 Time : 10.00AM @ Microsoft Teams



Registration: <https://forms.gle/RvdPQaQTAFAQaIE>

Dr. R. Selvam
Former Dean of Sciences
Bishop Heber College
Tiruchirappalli



Webinar on Vaccine Technology on 27.09.2020 at 10:AM through Microsoft Teams online. The session was handled by Dr. R. Selvam, Former Dean of Sciences, Bishop Heber College, Tiruchirappalli

OCTOBER



Webinar on Entomopathogenic Fungi (EPF) A Potential Biocontrol Agent for the control of insect pest of crops on 27.10.2020 at 10 AM through Microsoft teams online. The session was handled by Dr. B. Padmanaban, Scientist (Retired), Agriculture Research Service of ICAR, Tiruchirappalli.



Online Training on Poultry Farm Management on 29.10.2020 at 10 AM through Microsoft Teams Online. The session was handled by Dr. P. Sekar, Assistant Professor, Dept. of Zoology, Hans Rover College, Perambalur.

NOVEMBER

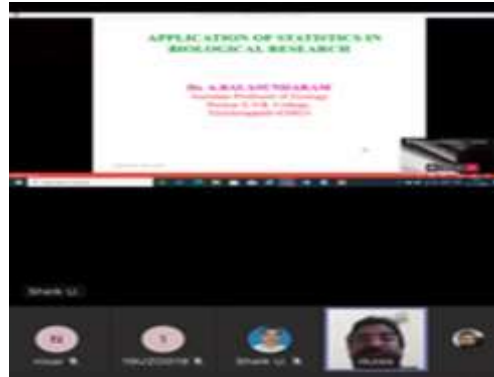


JAMAL MOHAMMED COLLEGE, (Autonomous)
College with Potential for Excellence
Accredited (3rd cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST - FIST Funded
(Affiliated to Bharathidasan University
Tiruchirappalli - 620 020)

Workshop on
**BIostatISTICS AND ITS
APPLICATIONS IN
BIOLOGICAL SCIENCES USING
STATISTICAL PACKAGE**
(DBT STAR STUDENT ENRICHMENT PROGRAMME)

MICROSOFT TEAMS ONLINE
27-11-2020
10:30AM - 12:30PM
REGISTER AT: <https://forms.gle/qAUw2zJ4FeP9zpLk7>

Dr. A. BALASUNDARAM
Assistant professor of zoology
Periyar EVR College - Trichy



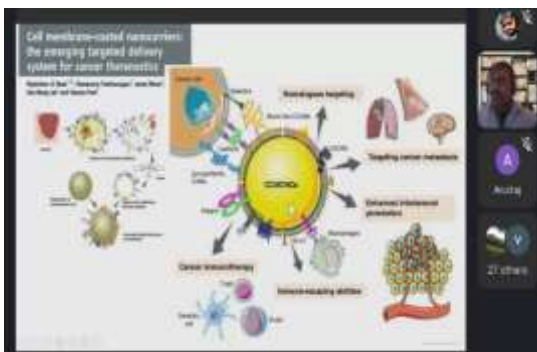
Airtel 5Gy Home 4G 11:28 AM 67%

In the meeting (31)

- ASHIQUE P A
- Sadiq Bukhari A
- MmdUvais 19UZO015 (Guest)
- nisar (External)
- Venuprasanth A.C (Guest)

Workshop on Biostatistics and its Application in Biological Sciences on 27.11.2020 at 10:30 AM through Microsoft Teams online. The session was handled by Dr. A. Balasundaram, Assistant Professor, Dept. of Zoology, Periyar EVR College, Tiruchirappalli.

DECEMBER



Three days **Online Faculty Development Programme** on the Title **“Drug Development and delivery”** during 10.12.2020-12.12.2020 at 10AM through Microsoft teams Online. Resource Persons:

1. **Jagathesh Chandra Bose**, Postdoctoral Researcher, Biomedical and Translational, Medical, Masonic medical Research Institute, Utica New York.
2. **Dr. Ramesh Pennamareddy**, RAC, Senior General_Chemo India formulations, Hyderabad.
3. **Dr. Kanagaraj Palaniyandi**, Assistant Professor (S.G), Department of Biotechnology, School of Bioengineering, SRM Institute of Science and Technology, Kattankulathur campus, Chennai.



JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (3rd cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST- FIST Funded
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI – 620 020



P.G. AND RESEARCH DEPARTMENT OF ZOOLOGY
Organizes
A Training Programme for Laboratory Assistants
On
Solution Preparation and Glassware Handling
(Under DBT Star College Scheme)



Resource Person :
Dr. A. IRUDAYA JOTHI
Assistant Professor
Department of Chemistry
St. Joseph's College
Tiruchirappalli

Date : 29-12-2020
Time : 10.30 AM
Venue : Zoology Seminar
Hall

All are cordially invited



Training programme for Laboratory Assistant on Solution preparation and Glassware Handling on 29.12.2020 at 10:30 in the Zoology Seminar Hall. The session was handled by Dr. A IRUDAYA JOTHI, Assistant Professor, Department of Chemistry, St. Joseph's College, Tiruchirappalli.

JANUARY



Hands on Training on Molecular biological Instruments (for Staff and Students) 08.01.2021 at 10:30 AM in the Instrumentation Room, Department of Zoology. The session was handled by Mr.Naveen, Technical Officer, The Precision Scientific Thillainagar, Tiruchirappalli.



JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (3rd cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST- FIST Funded
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI – 620 020



P.G. & RESEARCH DEPARTMENT OF ZOOLOGY
Organizes
A Training Programme on Ornamental Fish Culture
(DBT Star Student Enrichment Programme)



Resource Person :
V.Suresh M.Sc.,D.Aqua
Aquarium Consultant
Vasantha Aquarium
Thennur
Tiruchirappalli

Date : 12-01-2021
Time : 12.00 Noon
Venue : Zoology Seminar Hall

All are cordially invited



Training programme on Ornamental Fish Culture on 12.01.2021 at 12:00 PM in the Zoology Seminar Hall. The session was handled by Mr. V. Suresh M.Sc., D.Aqua, Aquarium Consultant, Vasantha Aquarium, Thennur, Tiruchirappalli.



Hands On Training Programme on Microbiological Instruments (for Staff and Students) on 23.01.2021 at 11:30 AM in the Instrumentation room, Department of Zoology. The session was handled by Mr. Durairaj, Technician (Lab). The Suresh Scientific, Thennur, Tiruchirappalli-17.

FEBRUARY



Field Visit cum Training Programme at Gundur lake (DBT- STAR Intercollegiate Programme - Jamal Mohamed College and

National College, Tiruchirappalli) on 06.02.2021 at 9.00 AM to 1.00 PM. Training Programme was conducted by the following Resource persons on the following topics:

1. **Analysis of Water quality parameters** by Dr. R.Krishnamoorthy, Assist. Prof. Zoology, Jamal Mohamed College, Tiruchirappalli.
2. **Plankton studies** by Dr. Janakiraman, Assist. Prof. of Zoology, National College, Tiruchirappalli.
3. **Bird Watching** by Dr. V. Gokula, Associate Professor and Head, Department of Zoology, National College, Tiruchirappalli.
4. **Butterfly survey** by V. Muthukrishnan, Butterfly Conservation Officer, Tropical Butterfly Conservatory, Tiruchirappalli.

 **JAMAL MOHAMED COLLEGE (Autonomous)**
College with Potential for Excellence
Accredited (3rd cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST- FIST Funded
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI - 620 020

P.G. & RESEARCH DEPARTMENT OF ZOOLOGY & TAMILNADU SCIENCE FORUM - SEVENTEEN COLLEGE STUDENTS BRANCH, TIRUCHIRAPPALLI
Jointly Organizes
A Special Programme on the Commemoration of 150th Anniversary of Darwin's publication "The Descent of Man"
Topic : "Darwin's Legacy and Modern Science"
(DBT Star Student Enrichment Programme)

 Resource Person :
Dr. V. SUKUMARAN
Assistant Professor of Zoology
Kuntharai Nachiyar Government
Arts College for Women (A)
Thanjavur

Date : 12-02-2021
Time : 10.15 AM
Via ZOOM Online
Meeting ID : 5270753416
Passcode : tnsf2020

All are cordially invited



A Special programme on the Commemoration of 150th Anniversary of Darwin's publication "The Descent of Man" on 12.02.2021 at 10:15 AM through Zoom online. The session was handled by Dr. V. Sukumaran, Assistant Professor of Zoology, K. N. Govt. Arts and Science College - Thanjavur.



Training Programme On Ornamental Fish culture (DBT – Star Outreach Programme) to promote **women self help group to boost self employment & Cottage industries** on 13.02.21 for the Local people in Gundur village. The session was handled by Mr. V. Suresh M.Sc., D.Aqua. Aquarium Consultant, Vasantha Aquarium, Thennur, Tiruchirappalli.



Training on Vermiculture and composting (Faculty Outreach Programme) on 21.02.2021 at 10:30 AM in the Zoology Seminar Hall. The session was handled by Dr. M. Meeramaideen, Assist. Prof. of Zoology, Jamal Mohamed College, Trichy.



Students of Zoology Department attending a **3 Day Internship in Animal Cell Culture Technique at Bharathidasan University**, Tiruchirappalli Under the Guidance of Dr. B. Kadal Mani, Associate Professor, Bharathidasan University, Tiruchirappalli on 22nd – 24th February 2021.

MARCH



Field Visit to Tropical Butterfly Conservation Centre, Trichy on March 10, 2021.



Workshop on Polymerase Chain Reactor (PCR) Handling on 12.03.2021 at 10:30 AM in the Zoology seminar hall. The session was handled by **Mr. Ashok Jeyaram**, Chief of Laboratory Service, Palani.



Workshop on DNA Separation Technique on 12.03.2021 at 10:30 AM in the Zoology Seminar Hall. The Session was handled by Dr. S. Mohamed Hussain, Assist.Prof. of Zoology, Jamal Mohamed College , Tiruchirappalli.



Field Visit to the following destinations on 15.03.2021

1. Periyar Manniammai University, Thanjavur

2. Indian Institute of Food Processing Technology, Thanjavur
3. Himalayan Aquaculture Farm and feed production unit, Thanjavur.



Inter Collegiate **Hands on Training Programme on Laboratory Specimen Culture** (For Lab Assistants and Students) on 16.03.2021 at 10:30 AM in the Zoology Seminar hall. The session was handled by Dr. M. Meeramaideen, Assistant Professor of Zoology, Jamal Mohamed College, Tiruchirappalli.



Inter Collegiate **Summer Training Programme on Micro techniques** on 18-23 March 2021. The Session was handled by Dr.A. Sadqi Bukhari, Assist.Prof. of Zoology, Jamal Mohamed College – Tiruchirappalli.