

For Academic year 2019 -20

Summary of activities done by **Department of Life Sciences** to upgrade online teaching skills

The following members of the department originally decided to form 2 groups but are now working together as a single group

Dr. Hema Ramachandran, Dr. Hema Subramaniam (part of the group but has been unable to participate actively due to extremely poor internet connection), Dr. Yasmin Khan, Dr. Sree Nair, Dr. Bhavna Daswani, Dr. Snehal Martins, Ms Rinki Shah and Ms. Divya Sinha.

The group meets once a week using Google Hangouts to plan a strategy for the week (the group has so far met online via video conferencing on 11th 18th and 25th of April and 2nd May 2020). The first week each person read up on or watched videos describing how Google Classroom can be used.

After the meeting it was decided that 2 classrooms can be made for each of the MSc classes and get students to log in. In the subsequent weeks, a question bank was uploaded by Dr. Yasmin on the MSc part 2 group and a quiz was uploaded by Dr. Bhavna on the MSc part 1 group. The quiz consisted of 10 multiple choice questions on cell biology which was created offline first and then uploaded on to the google classroom as a google form with a deadline of 48 hours. Most of the students scored between 7 and 9 out of 10. Reference articles pertaining to the topic 'Brain and Behaviour' were uploaded by Dr.Sree for MSc Part II and an ensuing discussion based on the same would be held on the digital platform next week

This week Dr.Yasmin decided to also include the current TYBSc group and started an activity where an article on vaccines against COVID are undergoing / ready for trial was posted on the group. The class is expected to understand the strategies used in developing these vaccines and discuss their pros and cons. This is meant to encourage the students to apply their immunology concepts in the current scenario. Some of the students have responded with either their comments or with more material. Since all the other staff are co-teachers they are also posing questions. On the whole, the response has been poor from the students. The Question Banks for TY PII and PIV were uploaded on the group by Dr.Sree. The students have to submit model answers in a week.

Dr. Snehal created a classroom for the SYBSc. Both Hema R and Snehal M posted activities for the class. Questions, crosswords and infographic related to recent COVID outbreak have been put up on the group.

Seminars / Workshops attended by staff:

**Hema R:**

Attended and completed a ten day (two sessions each) in April 2020 .Online course on E-content development with United Teachers Academy.

Attended Webinar and Discussions on Nature and Conservation. Suggested webinar for TY students as well. (Indian Bird: Pipits , Butterfly conservation, Conservation action group and Legal issues on conservation of Panchgani.

PG Literature survey follow up as mentor, submission of review article for publication.

Hema R and Yasmin Khan participated in finalising the PET syllabus for upcoming University examination.

**Yasmin Khan -**

Faculty Development Program by North Storm Academy with Lala Lajpatrai College on How to take your College sessions online - 3 day workshop.

Let's Talk Education - Webinar 2 - Making Faculty Technology Ready - organized by TEACH US in association with IQAC Dept Cosmopolitan Education Society's Valia College of Arts, Commerce and Science - on 2nd May 2020.

**Hema S** : Has not been able to do due to internet connectivity issues.

### **Sree R Nair**

1. National Online Seminar on Creation of MOOCs" organised by IQAC, Kirti M. Doongursee College of Arts, Science and Commerce Dadar Mumbai held on 27th April 2020
2. Online Teaching Masterclass-Teacher's Inclusive, IIDE on 25th April 2020
3. COVID-19: Ask The Experts: Part-II, 26th March 2020 organised by India Alliance DBT Welcome trust
4. "Education 4.0" organised by IQAC, Atharva College of Engineering held on 28th - 30th April 2020"
5. COVID-19: Ask The Experts: Part-VI, 1st May 2020 organised by India Alliance DBT Welcome trust

### **Rinki Shah**

Master Class on Online Education to transform offline education systems to effective and efficient online systems by Karan Shah, IIDE on 25th April, 2020

Faculty Development Program on How to create Digital Branding for teachers by Tilak Education Society's Tilak College of Science and Commerce, Vashi with North Storm Academy on 3rd May, 2020

Global Webinar on Covid19: Clinical Development and Healthcare Scenario on 4th May, 2020.

Bhavna Daswani -

Molecular Docking (bioinformatics) online course on Udemy.

PG literature review followup as mentor

### **Snehal Martin**

Master Class on Online Education to transform offline education systems to effective and efficient online systems by Karan Shah, IIDE on 25th April, 2020

Faculty Development Program on How to create Digital Branding for teachers by Tilak Education Society's Tilak College of Science and Commerce, Vashi with North Storm Academy on 3rd May, 2020.

### **Bhavna Daswani**

Molecular Docking (bioinformatics) online course on Udemy.

PG literature review followup as mentor

### **Divya Sinha**

Introduction to Neuroeconomics: How the Brain Makes Decision online course on Coursera. A credit course for St. Xavier's College, Mumbai.

## **Yasmin**

Completed Project 'Effect of retinoic acid on migration of the developing lateral line in zebrafish' [BT/PR8350/BRB/10/1254/2013]. Amount sanction Rs. 4237100.00/- for the period 31/12/2015 to 31/12/2018. Submitted the report and went for presentation on 18<sup>th</sup> July 2019

**In-charge Principal – from 1<sup>st</sup> April to 31<sup>st</sup> July 2019**

**Vice Principal – Science**

**Coordinator of Star College Scheme**

**Nodal Officer for the RUSA project**

**Member Secretary of the CPCSEA**

**Member of IQAC cell**

**Internal Expert on the RRC of Applied Biology**

**Editorial board of Spectrum**

**Appointed as Member Secretary of Academic Council of Sophia College (Autonomous)**

**Member of the CDC Committee of Sophia College**

**Member of the Planning and Evaluation Committee of Sophia College**

**Appointed on the BOS of Life Science – Mumbai University (13<sup>th</sup> September 2019)**

**Invited as member of the IAEC of Ramniranjan Jhunjhunwala College of Arts, Science and Commerce**

- 1 Subject expert on panel for Staff Selection interviews – Jai Hind College 4<sup>th</sup> May 2019
- 2 Organized the Khandala seminar – 24<sup>th</sup> & 25<sup>th</sup> August 2019. Resource persons Dr. Krishna Iyer (from Bombay Pharmacy college) and his wife. Nature expert -
- 3 Nominated by Vice Chancellor as a Subject expert for Life Sciences for CAS at K C College, 26<sup>th</sup> November 2019
- 4 Avishkar – Participated and was selected for Final Round of 14<sup>th</sup> Avishkar Research Convention 2019-20. Project by Simrah Khan – Effect Of Ethanol On Cell Death And Motor Neuron Development In Zebrafish (*Danio rerio*), in the Medicine and Pharmacy category – 14<sup>th</sup> December 2019. Participated in the Final Round on 6<sup>th</sup> January 2020
- 5 Member of team to conduct the Academic Audit of Jai Hind College on 11<sup>th</sup> and 12<sup>th</sup> December 2019
- 6 Participated in the RUSA sponsored Lecture-workshop "The Cell and Time" on 20<sup>th</sup> and 21<sup>st</sup> December 2019 at Sophia College
- 7 Appointed on the Expert Committee for Addition of BSc in Life Science at the N.G. Acharya and D.K. Marathe College of Arts, Science and Commerce on 6<sup>th</sup> January 2020

## **Hema R.**

**Member Board studies :Life Sciences (Mumbai University)**

**Chair person BOS Life Sciences.(Sophia College)**

**Member : Governing Body.**

Post graduate students (Part II) presented at the Annual IAN conference ,New Delhi and two students presented at ACTREC,Kharghar.

BOS meetings for the academic year was successfully completed on 14 Sept 2019 and 29th Feb 2020.

Nominated by Vice Chancellor as a Subject expert for Life Sciences for CAS at K C College, 26<sup>th</sup> November 2019.

Mindfulness based stress reduction during PMS : a neurobiological study under the WOS-B was accepted by DST and sanction order was received.

Under RUSA scheme a state level seminar "Relevance of Gandhi in the 21st Century" was conducted along with the department of Education and Political Science.(18th January 2020).

One day lecture workshop on Geriatric Management (100 Not Out) at K.C.College on 5th Feb 2020.

Dr. Hema. S

Dr. Sree Nair.

A National Hands-on Training Workshop on Innovative Experiments in Biological Sciences for College teachers under STAR COLLEGE SCHEME Organized by a STAR STATUS COLLEGE, Ramnarain Ruia Autonomous College in Collaboration with HBCSE, Mumbai

Dr. Bhavna

Dr. Snehal