

TEACHER'S ACTIVITY REPORT 2017-2018

FACULTY: Science

DEPARTMENT: Biochemistry

IQAC ACTIVITY No: SVC/2017-18/BIOCHEM/SS/2

NAME OF THE ACTIVITY: Educational Visit to NDRI, Karnal and IISER, Mohali

DATE	FACULTY	DEPARTMENT/COMMITTEE	COORDINATOR NAME
13 th -14 th October,2018	Science	Biochemistry	Dr. Shalini Sen
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor
1:00pm - 4:00pm, NDRI 10:00am- 2:00 pm IISER	National Dairy Research Institute, Karnal Indian Institute of Scientific Education and Research, Mohali	Students :40 BSc.(H) Biochemistry and P.G.Diploma in Molecular and Biochemical Technology Faculty members : 5	Outdoor, Indoor
SUPPORT/ASSISTANCE:	Travel Grant P.G.Diploma		

BRIEF INFORMATION ABOUT THE ACTIVITY (CRITERION NO. II, V, VII)

TOPIC/SUBJECT OF THE ACTIVITY	The National Dairy Research Institute is the country's premier dairy research facility that has developed considerable expertise in areas of dairy production and processing. IISER Mohali nurtures the basic tenets of science education and research at undergraduate and postgraduate levels.
OBJECTIVES	A visit to NDRI was aimed to acquaint our students to the good practices being followed in obtaining dairy products from cattle, some of which were genetically manipulated. IISERs are to science what the IITs are to engineering, so the students could see how a healthy scientific environment could boost the creativity of young minds.
METHODOLOGY	The students were allowed to visit all the departments as well as labs in both the institutes, in small batches. They interacted with the scientists as well as the technical staff regarding research approaches being adopted to solve interesting scientific puzzles.
OUTCOMES	The students were excited to see both the organizations, NDRI offering them a modern breeding and rearing ground for cattle and other animals and IISER encouraging them to work hard and possibly become part of a research and teaching institute in their future, that allowed their scientific temperament to bloom.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

Notice & Letters	Student list of participation ✓	Activity report ✓	Photos ✓	Feedback form
Feedback analysis	News clip with details	Certificate	Any other	

IQAC Document No:	Criterion No:	Metric No:
Departmental file no	IQAC file No;	

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
Dr. Meenakshi Kuhar Dr. Nandita Narayanasamy Dr. Shalini Sen Dr. Kameshwar Sharma Dr. Ravindra Varma	Dr. Shalini Sen Teacher-in-Charge Department of Biochemistry	Dr. N. Latha IQAC Coordinator Sri Venkateswara College

For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

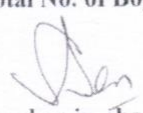
Proofs (Next Page)

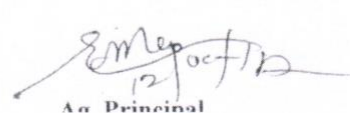
Proofs:

- **List of Students Participated (next page continued)**

List of students		
PG Diploma in Biotechnology		
S. No.	Roll No.	Name of the students
1.	3017001	Ms. Chitra
2.	3017004	Ms. Divya Bindra
3.	3017006	Ms. Purnima Singh
4.	3017008	Mr. Anuj Yadav
5.	3017009	Ms. Iram Rais
6.	3017014	Mr. Saswata Bhattacharyya
7.	3017015	Ms. Poonam
8.	3017018	Mr. Gaurav Kumar Singh
9.	3017019	Ms. Pragya Ahuja
Third Year Biochemistry (Vth Semester)		
S. No.	Roll No.	Name of the students
1.	1215028	Ms. Mehar
2.	1215033	Mr. Shivam
3.	1215016	Mr. Samoel
4.	1215013	Ms. Shagufa
5.	1215008	Mr. Rohan
6.	1215045	Mr. Akash
7.	1215010	Mr. Abhinav
8.	1215006	Ms. Eeshita
9.	1215017	Ms. Bhoomika
10.	1215020	Ms. Akanksha
11.	1215022	Ms. Shivani
12.	1215039	Ms. Vanshika
13.	1215027	Ms. Himanshi
14.	1215024	Ms. Sakshi
15.	1215025	Ms. Tanushka
16.	1215046	Ms. Shivangi
17.	1215023	Ms. Charvy
18.	1215021	Ms. Ifrah
Third Year Biological Sc. (Vth Semester)		
S. No.	Roll No.	Name of the students
1.	1315030	Ms. Monika
2.	1315053	Ms. Sushma
3.	1315023	Ms. Shriya
4.	1315033	Ms. Atrayee
5.	1315017	Ms. Lovika Rajpal
6.	1315008	Ms. Kajal Yadav
7.	1315020	Mr. Dilsher
8.	1315039	Mr. Shubham
9.	1315027	Mr. Harshit
10.	1315013	Mr. Namit Malhotra
11.	1315037	Mr. Rohit
12.	1315018	Mr. Abhishek
13.	1315031	Mr. Rohit Goyal

Total No. of Boys : 15 and Girls : 25


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- **Activity Report**

Report on the visit to

National Dairy Research Institute (NDRI),
Karnal

And

Indian Institute of Science and Educational
Research (IISER), Mohali

From 13-10-17 to 14-10-17

Organized by

Department of Biotechnology, Sri Venkateswara
College, University of Delhi

As part of our curriculum, a guided tour was conducted by Department of Biotechnology, Sri Venkateswara College to National Dairy Research Institute (NDRI), Karnal and IISER, Mohali, Chandigarh from 13th-14th October, 2017.



NDRI, Karnal



IISER, Mohali

NDRI, Karnal, Haryana



During our visit to NDRI, Karnal, we attended Seminar disseminating information about highest milk production in India and the role of NDRI in optimum production of milk by utilizing latest techniques developed by NDRI. This has resulted in better quality of milk production and also generation of employment.

We were also informed that NDRI was started in 1923 under the name of Imperial Institute of Animal Husbandry and Dairy which became an important institute in 1930. After its inception, NDRI started various regional institutes in India and also started International Training programmes and Krishi Vigyan Kendras involving participation of farmers and making them aware of adopting latest methods. NDRI organizes Dairy Melas in which various activities like Calf Rally and Pashu Chikitsa Camp are organised for the benefit of farmers.

As part of its research activities, NDRI developed genetically new species of cows and buffaloes through IVF. Also NDRI is the first institute to produce clones of buffaloes. NDRI has developed kits and methods for tests for detection of any contamination. These kits and methods have been patented by NDRI. It has also developed defined Strain Starter Culture for the production of probiotic milk products. The institute actively participates in exchange programmes with countries such as Germany and collaborations with institutes such as NDDB and Art Breeding Research Centre to conduct future research programmes.

After seminar, we visited various genomics and proteomics laboratories carrying out research in different areas. Here we interacted with noted Professors and Scientists who introduced us to various techniques and instruments. We were also informed that techniques such as SDS-PAGE and HPLC are being employed as an important component of research.



Faculty interacting with students

After visiting labs, we were then taken to fields of NDRI where we saw calves, goats, cows, buffaloes kept in sheds and clones developed by NDRI. We also visited areas where extraction of milk by different machines was being carried out.



(A) Cows kept in sheds. (B) Area where milk extraction process takes place.

Following this we visited various counters opened by NDRI exhibiting its various dairy products and concluded our visit to NDRI.



IISER Mohali



During our visit to IISER Mohali next day viz. on 14th Oct, 2017, we first attended the Seminar where we were introduced to the research work being carried out in various fields of science and the importance of interdisciplinary in the field of research. We were further informed how IISER Mohali makes its students involve in various extracurricular activities as well.

Following this we were taken to different labs where research in different fields of biology and allied topics was going on. In one of the labs, research was being carried out on zebra fish to study organ regeneration, to study mechanisms primarily taking place in eye regeneration including other organs such as liver. We were then introduced to various techniques such as confocal microscopy (for Protein Localisation by fluorescent markers) and other advanced instruments.



During the above visit we had privilege of interacting with Dr. Debi Prasad Sarkar, Director, IISER Mohali.

The visit concluded with conveying our thanks to the faculty members and students of IISER, Mohali.





SRI VENKATESWARA COLLEGE
(University of Delhi)

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Prof C. Sheela Reddy
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Sri Venkateswara College

IQAC Coordinator

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Department of Biochemistry

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Department of Biochemistry
University of Delhi South
Campus

Prof Alo Nag
University of Delhi South
Campus

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NIPGR, Delhi

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Dr. Neeraj Sahay
Department of History

Dr. Vartika Mathur
Department of Zoology

Dr. Shruti Mathur
Department of Commerce

Dr. Padma Priyadarshini
Department of Sociology

Dr. Nimisha Sinha
Department of Biochemistry

Shri D. Venkat Ramana
A.O(I/C)

This is to certify that the Activity report (Teacher/Department /Society/Association) has been submitted for documentation to IQAC, Sri Venkateswara College, University of Delhi.

N. Latha

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