

Under Internal Quality Assurance Cell (IQAC) (Convener: Dr. Pooja Jain)
The following academic activities and extra-curricular activities
have been planned for academic year 2018-19

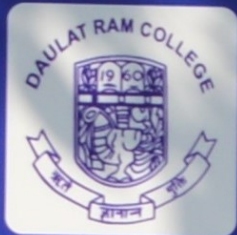
Month	Nature of Activity	Theme	Organising Department
Jul-18			
4 th -10 th	SDP**	Digital Literacy	Zoology
10 th -16 th	FDP*	Biochemical Techniques	Biochemistry
16 th -18 th	Workshop for Teachers DBT Star Project	Research Based Pedagogical Tools	Zoology
20th Classes Begin			
23 rd -28 th	Orientation workshop for 1st years	Academic reading and writing	English
Aug-18			
20 th -30 th	Lecture series	History of English literature	English
4 th week	Initiatives for Sustainable Development	Sustainable Development Through Environmental Protection Measures	Multi-disciplinary
Sep-18			
6 th	Panel discussion	Legal Awareness	Political Science
1 st -15 th	Value engagement program	Experiencing values through art	Psychology
2 nd Week	Symposium	Subaltern History	History
Last Week	National Seminar	Social media as perceptively impactful watchdog over mainstream media	Interdisciplinary
15 th Sep-15 th Oct	Acculturation Program	Psychological growth of North East Students	North East Cell/ Psychology
Oct-18			
4 th	Symposium	Appreciating differences and diversity of North East India	North East Cell
	Workshop	Applications of optoelectric devices in day to day life	Physics
15th-21st Mid-semester break			
22nd Classes begin after mid-sem break			
31 st	National Paper presentation competition	To develop research skills	Psychology
	Bhashan Mala	Acharya Hazari Prasad Dvivedi Smarak	Hindi
Dispersal of classes, practical exams begin			
19 th -22 nd	FDP*	Application of Econometric methods and techniques	Economics
19 th -24 th	FDP*	Indian theories of	Philosophy

Month	Nature of Activity	Theme	Organising Department
18 th -24 th	FDP*	Indian theories of meaning	Philosophy
18 th -24 th	FDP*	Survey Research	Political Science
	Student Workshop/ DBT Star College project	Biotechnological tools and techniques	Botany
	SDP**	Designing of digital circuits	Physics
	SDP**	Application of instrumental techniques and EVS	Chemistry
10 th -16 th	SDP**	Using recycling products as resource material	Recycling Unit
17 th -24 th	SDP**	SPSS (Statistical Package for Social Sciences)	Commerce/Economics
21 st -29 th	SDP**	Ayurvedic principles and their relevance	Sanskrit
Jan-19			
1 st	Classes begin after winter break		
3 rd -4 th	International Conference	South East India: "The Shaped Identities, History, literature, politics, culture, divinity and tourism"	Multidisciplinary
8 th -9 th	International Conference	Integrating traditional healing practices with contemporary Western Health	Psychology
Feb-19			
	Workshop	Capacity building program of visually and physically challenged students	Psychology/ Enabling Unit/ NSS
22 nd	National Seminar	Paryavaraniya Chintana; Bhartiya Drishti	Sanskrit
	Panel discussion	Global Connections/ Global History	History
	National Conference	Recent trends in biotechnology and environment	Botany
	National Seminar	Empowering visually impaired women	Enabling Unit
Mar-19			
15 th -16 th	National Conference	Yoga and meditation for holistic well being	Multidisciplinary

- **DST-Inspire Camp** was organized from 17th of December to 22nd of December. A five day camp was organized by all the science departments in the college for 11th class students from various schools from Delhi and NCR. The camp included talks by eminent scientists and hands on training on various science subjects for the students.

Department of Science and Technology (DST), Government of India organized a specially designed programme titled **DST Inspire Science Conclave 2019: Research on the Frontiers** from Wednesday 16 January to Friday 18 January 2019, under the aegis of the D S Kothari Centre for Research and Innovation in Science Education established at Miranda House, University of Delhi. Shefali Jain, 3rd year student from Department of Biochemistry, Daulat Ram College presented the Scientific Poster titled **"Zebrafish Embryo as a Biosensor to assess Health Impacts of Food Additives"** which was given the Best Poster Award in the category of Biological Sciences.





DAULAT RAM COLLEGE

(NAAC Accredited 'A' Grade & Star Status College)



University of Delhi

Organizes

INSPIRE SCIENCE CAMP

(INNOVATION IN SCIENCE PURSUIT FOR INSPIRED RESEARCH)

17 – 21 December, 2018



Department of Science and Technology
Government of India



REPORT of



A Star Status &
NAAC Accredited 'A' Grade College

INSPIRE SCIENCE CAMP

(Innovation in Science Pursuit for Inspired Research)

December 17 - 21, 2018

Organized by

**Daulat Ram College
(University of Delhi)**

sponsored by

**Department of Science & Technology
Govt. of India**



सत्यमेव जयते
Department of Science and Technology
Ministry of Science and Technology
Government of India

Daulat Ram College organized its first INSPIRE (Innovation in Science Pursuit of Inspired Research) Science Camp, sponsored by Department of Science and Technology (DST), Govt. of India, from 17th – 21st December, 2018. The camp was organized with the aim to expose the young minds to the exciting world of science and technology and stimulate the spirit of curiosity, learning and innovation. Around 150 students from various schools of Delhi NCR region actively participated in the camp. A day -wise glimpse of the five day camp is given below:

17th December, 2018

Inauguration Program: Prof. Chandrima Shaha, Professor of Eminence and Former Director, National Institute of Immunology, New Delhi and Dr. Savita Roy, Principal, Daulat Ram College, University of Delhi, inaugurated the five day INSPIRE camp on 17th December 2018. Dr. Savita Roy, Principal, Daulat Ram College, welcomed the participating school students and their teachers and highlighted the advance scientific infrastructure and ongoing research projects in the College. Dr. Padmashree Mudgal, Coordinator INSPIRE Science Camp, Assoc. Professor, Department of Biochemistry, Daulat Ram College, apprised the students about the main aim and objectives of INSPIRE Camp and broadly outlined the various hands on interactive lab sessions and activities planned for young students during the five day Camp.

Mentor Lecture -1 : Prof. Chandrima Shaha, gave an inaugural lecture on “*The remarkable journey of cells*”. She took the students on a fascinating journey starting from prehistoric times how single cells would have formed and then how cells differentiated to form specialized cells with specific function and then how they interacted with each other to organize into tissues, organs and organisms. Students were amazed at how cellular machinery could go wrong to form cancer growth and could even lead the cell to suicide. Prof Shaha also touched upon the topic of stem cells. Prof Shaha’s amazing talk stirred a number of questions in minds of young students which was reflected during the interactive Q&A session.

Mentor Lecture -2 : Post tea, Prof. Ajoy Ghatak, Eminent Scientist (Physical Sciences), Bhatnagar laureate, Formerly Professor, IIT Delhi gave a lecture on “*Einstein & $E=mc^2$* ”. In a very simple manner, he started with the importance of Optics in our lives, from light to fibre optics, and then he went on to explain the Einstein’s theory of relativity with its significance and examples in our day to day lives. Such was the impact of his lecture that students questions extended even during lunch time.

Hands on Practical sessions / Laboratory visits: Post lunch each day, parallel practical hands on sessions in Re-cycling unit, Biochemistry, Botany, Chemistry, Mathematics, Physics, and Zoology and Research lab experience in Drosophila and Zebrafish labs were organized. Students were divided into groups and were rotated in labs such that in each lab at one time there were not more than 10-12 students.

18th December, 2018

Mentor Lecture -3 Prof. Akhilesh Tyagi, Eminent Scientist (Life Sciences), Bhatnagar Laureate, Department of Plant Molecular Biology, University of Delhi "*Tinkering with plant genomes!*" Prof Tyagi's talk was on evolution of wheat genome, novel wheat varieties developed and the role of agriculture/plant research in assuring food security for the nation. Prof tyagi also mentioned about transgenic crop development and its application in developing nutritionally fortified crop products.

Mentor Lecture -4 Prof. Shrikant Kukreti, Eminent Scientist (Chemical Sciences), Department of Chemistry, University of Delhi. "*Brilliant Discoveries: Incredible People*". Dr.Kukreti took us back in time with the life journey of Alfred Nobel, into the chemistry's marvelous discovery of nitroglycerine to the greatest chemical invention -Dynamite. His story -telling narrative kept the students engaged and they learned about the life and discoveries of many other notable scientists such as Louis Pasteur. Prof Kukreti gave a truly engaging and inspirational talk.

19th December, 2018

Mentor Lecture -5 Prof. R. K Sharma, Eminent Scientist (Chemical Sciences), Department of Chemistry, University of Delhi "*Green Chemistry: Designing Chemistry for Human Health and Environment*". He highlighted how Green Chemistry is the order of the day in an ever polluting environment today. Prof. Sharma spoke about his research on developing green alternatives for otherwise used toxic chemicals in the industries. He also shared a few stories on how one can use green chemistry to modify a chemical process such that the by products are less toxic or environment friendly. In addition Prof Sharma informed about his engagement with different schools for conducting workshops and interactive sessions of green chemistry and better environment.

Mentor Lecture -6 Prof. Suman Kundu, Head, Department of Biochemistry, University of Delhi "*Story of Proteins - The Amazing Life Molecules*". After giving a general introduction on proteins, Prof Kundu discussed on his tinkering with the oxygen carrying molecule hemoglobin. He shed light on the discoveries where in hemoglobins are discovered in other organisms and plants. He also spoke about how his research on hemoglobin could be applied towards developing 'artificial blood'.

20th December, 2018

Mentor Lecture -7 Prof. T. S Seshadri, Eminent Scientist (Physical Sciences), Department of Physics & Astrophysics, University of Delhi "*Surprises from the Sky: Accidental discoveries in Astronomy*". The discipline of Astrophysics was mesmerisingly described by taking examples of the landmark discoveries. Prof Sheshadri's vivacity and involvement was such that all the students and teachers were infused with celestial energy.

Mentor Lecture -8 Prof. M. M. Chaturvedi, Eminent Scientist (Zoology), Department of Zoology, University of Delhi "*Understanding the Design of Living System*". He spoke about how

living systems evolved, starting from the making of cells-the basic unit of life to complex organisms.

Mentor Lecture -9 21st Prof. Deepak Pental, Eminent Scientist (Life Sciences), Department of Genetics, and ex-Vice chancellor, University of Delhi “*Interaction of science, technology and ideology in shaping the modern world*”. Journey / History of Science and how scientific discoveries have shaped our world today. Starting from Graham Bell, to smart phones today, from ancient agricultural practices to genetic crosses to genetically modified crops.

Mentor Lecture -10 Prof. C. S. Lalitha, Eminent Scientist (Mathematical Sciences), Department of Mathematics, University of Delhi “*Puzzles in Mathematics*”. She spoke about the logic of Sudoku puzzles and their design. Her talk essentially turned every brain sitting in the hall into calculators. It was a mathematically engaging talk.

An overview of the hands on activities in various laboratories

Botany Department

The botany department conducted three practical hands on training on Micropropagation, DNA isolation and pollen germination. Students were first briefed about the experiment “**Pollen germination**” through power point presentation. During hands on, all participants prepared their own slide and observed high percentage of pollens with long germ tubes under the microscope.

In tissue culture laboratory, growing cultures of medicinal plants of different stages (7d, 14d, 21d and 28 days old) were shown. Students were excited to see plants in tubes and several pictures were clicked by them. Sterilization, media preparation and inoculation procedures were demonstrated and hands on experience was given about mass propagation of any plant irrespective of the season under *in vitro* condition. Students showed keen interest in the working of different scientific instruments such as laminar flow, autoclave etc.

The students were briefed about the objective, principle, procedure and applications of the “**Plant genomic DNA isolation**” experiment through a Power Point presentation. During the hands on training, the students isolated Plant genomic DNA from Cauliflower inflorescence. They performed the experiment very meticulously and with lot of enthusiasm, as it was for the first time that they isolated and saw DNA. They took DNA along with them as a memoir.

Biochemistry

The biochemistry department had planned experiments that had connection to daily life and human body. The students did an experiment to study the effect of pH on the solubility of proteins. They learnt the **concept of Isoelectric pH of proteins** which has many application including precipitation of paneer (milk protein casein) from milk when lemon juice is added to milk.

In hematology lab, the students made their own slides using their own drop of blood (pricking was done using sterile painless pen) to observe different kind of **cells present in their blood** by

simple staining procedure. The students could observe various cells such as RBC, monocytes, neutrophils, eosinophils and platelets. The students were also told about the functions of various types of cells.

In the health lab, the students assessed their anthropometric profiles and learn about their metabolic status. They measured their, height, weight, BP, waist to hip ratio etc and deduced their **BMI**. The students learnt about the correlation between BMI and obesity and what dietary measures need to be undertaken to prevent lifestyle disorders.

Zebrafish Facility.

The students were excited to see the zebrafish in the zebrafish laboratory. The students learned about the importance of zebrafish as a model system. They were told about the basic set-up required to establish a zebrafish lab. They explored the various strains of zebrafish and also learnt to differentiate between male and female zebrafish. The students also observed the live eggs and embryos of zebrafish. The students were most excited to observe various organ system in live transparent zebrafish larvae. They could see the beating heart, circulating blood, and peristaltic movement of intestine. They were amazed see a live heart beating in a live organism and how the various organ system in zebrafish are similar to humans. The students were also exposed to the various ongoing research interests pursued in the lab.

Chemistry Department

The students visited the Chemistry department with a special enthusiasm on all five days. The experiment on, “**Invisible ink**” took students by a lot of fun and surprise as they wrote secret messages, drew maps, pictures and wrote codes using chemical reagents and fluctuating pH, temperature etc.

The students appreciated the experiment on making **herbal soft soaps** and were highly motivated to minimize use of chemical based products. The students tried the soap for hand washing and carried the soaps along with them. The students also proposed new ideas on the kind of ingredients one can use in soap making.

In another experiment, students were thrilled to synthesize green chemistry based **gold nanoparticles** using tea leaves. The students learned the use of magnetic beads and magnetic stirrer. They were excited to use the gold nanoparticles to make anti ageing cream on their own.

Overall the students acquired skills and developed interest to pursue, chemical sciences, material sciences and nanosciences at advanced level in their careers.

Mathematics Department

The Mathematics department conducted two experiments in the Mathematics lab, namely, “**Simple Pendulum and applications of differential equations**” and “**Mathematical Structures**” to visualize the symmetries of regular polygons by rotating and flipping the squares

and triangles, thereby, understanding the properties of a mathematical structure called “Groups”. The experiments inculcated the team spirit in the students who worked in groups to carry out experiments, made careful observations, analyse and interpret the results and drew valid conclusions. It was a learning experience for the mentors as well as it was different from the day to day classroom teaching.

Physics Department

Department of Physics organized experiments on Optics and electronics.

In **optics lab**, the students learned about light reflection, refraction, diffraction and total internal reflection phenomena. Students also determined the refracting index of a glass slab. The prototype of optical fiber using laser with falling water, provided the understanding of water laser shows such as that takes place in Akshardham temple.

In electronic lab, circuit for water level indicator was designed using **electronic logic gates** and different colored LEDs to indicate the different levels of water in a tank. Students learned how to use breadboards, design simple circuits, and understand about logic gates. It proved to be a very interactive, thought provoking and enjoyable session for the participants.

Recycling Unit

A number of activities were planned in the recycling unit of the college. each student group was divided into 3 subgroups which were exposed to the activities of the recycling unit as follows: Students had hands on experience in making **hand made paper** which included a number of processes (a) recycling of waste paper and cartons to make recycled hand made paper , (b) Calendring the hand made paper and (c) Marbeling the hand made paper. The Students eagerly made paper, calendered them and marbled them.

The students were also demonstrated the procedure of making compost from the fallen leaves on campus. The students also got acquainted with the medicinal plants and indoor antipollution plants grown on the compost containing pots.

They were enthused to see the decentralized waste management system. Many of the students and teachers carried back packaged manure, paper sheets and potted plants to display in their school.

Zoology

A number of experiments were planned in Department of Zoology. conducted the following hands on experiments.

The concept of different behavioural pattern in animals was explained to them with the help of live experiment of woodlice orientational behaviour to their environment (humid and dry

conditions). Students were made aware of behavior patterns in nature, such as specific flower preference by honeybees, convergence/divergence in evolution.

Students performed the experiment for blood group identification. They learnt about the basis of blood group identification. In the excitement of knowing their own blood groups, each and every performed the experiment.

Students were exposed to the exciting world of *Drosophila* and especially how this small fruit fly had immense contribution in field of science. After going through its complete life cycle, food preparation method, culturing method and all, most of them wanted to revisit *Drosophila* lab to have some more hands on. Few of them even tried transferring of flies from culture bottle and performed short experiment we designed for them. They were excited about the behaviour studies using Maze experiments. This is the first time they used binocular Stereozoom microscopes, and Evos Computerised inverted microscopes.

Students learnt about the differences between eukaryotic cell from prokaryotic cell by observing them under the microscope. The students prepared a temporary mount of a prokaryotic cell (*Lactobacillus* bacteria) and a eukaryotic cell (neuron). Students made their own slide and learnt how to handle and adjust the microscope. They had various questions about the cell and their teachers were also equally engrossed in the exercise.

Innovation Challenge and Innovation Idea Awards

The students participated with full zeal in Innovative Idea contest and write ups kept pouring till the final day of the camp. Most of the innovative ideas were on the themes of Recycling and waste management, renewable energy. An idea discussed about generating different forms of energy from Delhi Metro while another idea talked about converting sound energy(noise pollution) to other forms. A number of ideas were focused on agriculture and farmers and apps and services which could make their life easier. A few other ideas included: Asteroid mining, Titanium dioxide based nuclear shields, Mosquito killer rackets made up of a plant stem, Synthesis of glass from flyash, hydroponics etc. With such great ideas it was difficult to list out the winners. The following prizes were given

1st prize was awarded to the idea ‘Rooftop algal farming’. The idea talked about using rooftops for cultivating algae which could be used as carbon dioxide absorber. The algae could be used for downstream processing to yield veg oil containing DHA, bioethanol etc. Navya Prakash of Shiv nadar School Noida bagged this prize.

2nd Prize won by Soumya Kansal of Amity International school, Vasundhara enclave gave the idea of designing an automatic aluminium vessel machine fitted with brushes for removing surface pesticides from fruits and vegetables. The machine would use a herbal neutralization solution and would also have provision of drying the vegetables post wash.

3rd Prize was awarded to Vani Singhal of Amity International school, Vasundhara for the idea of “ Indoor Algal Glass panels” to enrich air and reduce carbon footprint with sensors to monitor air quality. In addition this would reduce usage of Air conditioners by providing cooling.

One Consolation Prize was awarded to Aayushman Jha, Apeejay School, Pitampura for resented several ideas in tenreas of stem cells, disease management, energy etc. All his ideas were inspired by information obtained from the mentors lectures during the camp.

The five day camp concluded with the valedictory function on 21st afternoon. Mr. Yugal Kishore Joshi, Director, Swachh Bharat Mission in Ministry of Drinking Water and Sanitation, the chief guest of the function gave away the certificates to participating students and also to the winners of the Innovative idea contest. He apprised the students of the initiatives taken by the government under Swachh Bharat Mission and the targets achieved. He also motivated the students to be active participants in the Swachh Bharat Mission.

Finally Dr. Padmshree Mudgal, Coordinator INSPIRE Science Camp gave the vote of thanks, thanking DST, Govt. Of India for giving the wonderful opportunity to organize the INSPIRE Camp in Daulat Ram College and also the participating schools, their students and teachers for their enthusiastic participation.

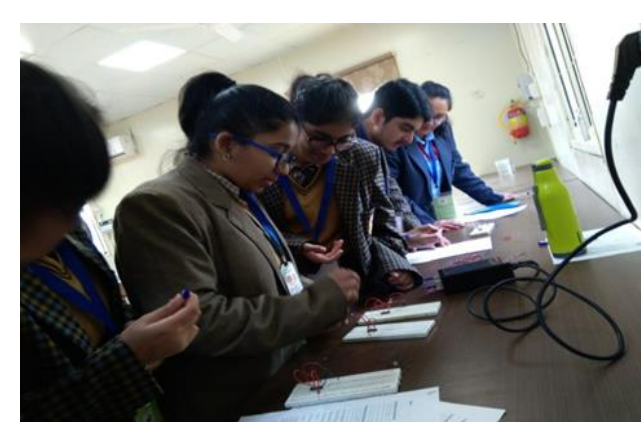
DST INSPIRE Science Camp, Daulat Ram College

17th – 21st December, 2018











RBPT WORKSHOP

Department of Zoology celebrated its golden jubilee year in 2018-2019 by organizing various workshops and seminars. In the year 2019 from March 25th to 27th 'Research Based Pedagogical Tools (RBPT)' Workshop for Science Teachers was organized along with IISER Pune as Knowledge partners. More than 40 teachers from various colleges of Delhi University attended the workshop. Inaugural session included talk by two eminent academicians. Dr. Arun Kumar Pandey Vice-Chancellor, Mansarovar Global University, Bhopal talked about amalgamation of conventional methods and technology in teaching learning arena. Dr. Pratibha Jolly gave inaugural talk on the topic "Undergraduate Science Education Guiding Change, Transforming Ecosystems".

Dr. Savita Roy, Principal Daulat Ram College emphasized on making the teaching learning process more student-centric. She said practical component is very important and the students must be encouraged to do an activity by

themselves to learn. Prof. M. M. Chaturvedi gave valedictory lecture on the topic "Fourth Revolution in Education (E 4.0)".

Dr. Vandana Luthra, Dr. Sudhir Verma and Dr. Mallika Pathak conducted the workshop as RBPT trainers. Major themes included Introduction of RBPT, development & analysis of RBPT and presenting the RBPT.

After attending the three day workshop all the participants were of the opinion that the entire pedagogy should consist of a major component of research. During the workshop Mobile Digital Planetarium was also arranged in the premises.

RBPT workshop was telecasted on 30th March in Science Reporter on Rajyasabha TV. (https://www.youtube.com/playlist?list=PLVOgwA_DiGzpd3_lz7J-81Vh4QqU-ZGA9)



Department of Political Science Daulat Ram College (University of Delhi)

Organises Faculty Development Programme on Survey Research

(Under IQAC)

with assistance from Northern Regional Centre, Indian Council of Social Science Research,

Faculty Members and
can register latest by 3
March 2019.

Email :
moitreebhattacharya@hotmail.com
suranjitaray_66@yahoo.co.in

Registration of 30 participants will
be made on the basis of first-come
first-served.

Registration Fee
Rs. 500/- in full
Daulat Ram
deposited on 5 March

Conveners : Dr. Suranjita Ray and Dr. Moitree Bhattacharya

Venue: Conference Hall, Daulat Ram College | 5 March - 11 March 2019

For Further Details : <http://www.dr.du.ac.in/>

DAULAT RAM COLLEGE

University of Delhi

Department of Political Science

REPORT

Faculty Development Programme

on

Survey Research

5th-11th March 2019

(Under IQAC)

(With Partial Assistance from Northern Regional Centre, ICSSR)

**Dr. Suranjita Ray
Dr. Moitree Bhattacharya
Conveners**

ACKNOWLEDGEMENT

We express our gratitude and sincere thanks to Dr. Savita Roy, Principal, Daulat Ram College for her constant support and encouragement to organise the Faculty Development Programme (FDP) on Survey Research. We are grateful to Prof. Kaushal Sharma, Honorary Director, Northern Regional Centre (NRC) Indian Council of Social Science Research (ICSSR), for being generous in providing financial assistance and support. We are indebted to all the Resource Persons for their valuable contributions in making the programme a learning experience for the participants.

We sincerely thank Prof. Sunil Choudhary for his guidance and inspiration to make the programme a success. Our special thanks to Dr. Pooja Jain, Convener, Internal Quality Assurance Cell (IQAC), Daulat Ram College, and Dr. Vandana Mishra, Observer, NRC ICSSR, for their co-operation and participation. The participants contributed in many ways in achieving the objectives of the FDP. Our Alumuna Priyanka Dhingra was always there for every possible help we needed to organise the FDP. We are extremely grateful to all the non-teaching staff who have helped us in successfully organising the programme.

Department of Political Science
Daulat Ram College

CONCEPT NOTE

(Submitted to NCR ICSSR)

As survey research is an important methodology in Social Science, it is pertinent to acknowledge its relevance not just as an important method/approach/pedagogical device, but also as a discipline in itself. Survey research has developed its own set of concepts, concerns, vocabulary, terminology and approach to privilege as a study that has moved beyond certain limitations of non-comparative, not comprehensive/holistic, non-scientific, and abstract studies.

Both as a methodology and a discipline, survey research has become a systematic and scientific study of the methodologies and approaches that help in researching issues of day to day society. Understanding survey methodology and techniques of survey data collection, such as questionnaire formulation and the survey sample as an adequate representation to arrive at an important finding, is relevant. In fact, much of the analysis (quantitative and qualitative) is determined by variables such as the purpose of research and data collection, methods of data collection, respondents (individual and households), as well as non-response.

A rigorous analysis not only enables an understanding of the research area/topic of research but also helps in conceptualization of a theory on the basis of the adequate findings. Therefore, survey research should enable us to move from the narrower interpretation to broader, specific to general, quantitative to qualitative, simple to complex, explicit to implicit, rigid to flexible, micro to macro, and vice versa.

Analysis in survey research cannot be understood through mutually exclusive frameworks as it cuts across boundaries of rigidity and fact-value dichotomy. As a complex and dynamic process it involves many constituents, which are

interconnected and interact in different ways. Its multi-dimensional and interdisciplinary characteristics not only cuts across the disciplinary boundaries, but also enables an amalgamation of the theoretical and empirical studies.

Given the complexities, irrationality, instability and contestability of contemporary contexts, this six-day programme will be of immense help to researchers/ faculty members across disciplines who are engaged in surveys/ field work/ case studies/ empirical research/ narratives as an essential methodology for comprehensive understanding of the research question/ area/ topic/ issue/ subject/ concern.

The six day programme will be based on the following broad themes, which will be unfolded through sub-topics discoursed by various Resource Persons. To develop a holistic understanding of the course, and to make the workshop relevant, a wide range of issues will be focused.

Themes

Social Science Research Methods

Sampling Procedure

Data Collection

Data Processing

Data Analysis

PROGRAMME

Department of Political Science
Daulat Ram College
Organises

Faculty Development Programme on

Survey Research

5-11 March 2019

(Under IQAC)

(with partial assistance from Northern Regional Centre ICSSR, New Delhi)

Venue: Conference Hall

Day One - 5 March 2019 (Tuesday)

Registration and Tea: 9.30 a.m. – 10.30 a.m.

Inaugural Session: 10:30 a.m. – 11:30 a.m.

Methodology as Persuasion: Prof. Satish Deshpande, Department of Sociology,
Delhi School of Economics, University of Delhi

Session I: 11:30 a.m. – 1:00 p.m.

Survey Methods: Prof. Sanjay Kumar, Director, Centre for Study of Developing
Societies

Lunch: 1:00 p.m. – 2 p.m.

Session II: 2 p.m. – 3:30 p.m.

Survey Method and Field Work: Prof. Vinay Srivastava (Retd). Department of
Anthropology, University of Delhi

3.30 p.m. – 4.30 p.m.

A Brief Overview of the Six Day Programme

Tea: 4:30 p.m.

Day Two - 6 March 2019 (Wednesday)

Session I: 10:00 a.m. – 11:30 a.m.

Evolution of Social Science Research: Prof. Sunil Choudhary, Department of Political Science, University of Delhi

Tea: 11:30 a.m. – 12:00 Noon

Session II: 12:00 Noon – 1:30 p.m.

Sampling Designs and Sampling Errors: Dr. Haneet Gandhi, Department of Education, University of Delhi

Lunch: 1:30 p.m. – 2:30 p.m.

Session III: 2:30 p.m. - 4:00 p.m.

Sampling Procedure: Prof. Sanjay Kumar, Director, Centre for Study of Developing Societies

Tea: 4:30 p.m

Day Three - 7 March 2019 (Thursday)

Venue: Chemistry Lecture Theatre

Session I: 10:00 a.m. – 11:30 a.m.

Questionnaire/Schedule Designing, Filling up Schedule, Data Entry: Dr. Susmita Mitra, Council for Social Development, Delhi

Tea: 11:30 a.m. – 12:00 Noon

Session II: 12.00 Noon – 1:30 p.m.

Data Cleaning, Tabulation, Cross Tabulation in Excel: Dr. Susmita Mitra, Council for Social Development, Delhi

Lunch: 1:30 p.m. - 2:30 p.m.

Session III: 2:30 p.m. – 4:00 p.m.

Empirical Research : Exiting and Frustrating Moments

Prof. Manoranjan Mohanty, (Retd). Department of Political Science, University of Delhi

Tea: 4:30 p.m.

Day Four - 8 March 2019 (Friday)

Venue: Chemistry Lecture Theatre

Session I: 10:00 a.m. – 11:30 a.m.

Using Mixed Methods in Doing Research: Prof. Madhulika Banerjee, Department of Political Science, University of Delhi

Tea: 11:30 a.m. -12:00 Noon

Session II: 12:00 Noon – 1:30 p.m.

Data Analysis and Visualization in Excel: Dr. Susmita Mitra, Council for Social Development, Delhi

Lunch: 1:30 p.m. - 2:30 p.m.

Session III: 2:30 p.m. – 4:00 p.m.

Presentations - Chair: Dr. Shahana Bhattacharya, Department of History, Kirori Mal College

Tea: 4:30 p.m

Day Five - 9 March 2019 (Saturday)

Session I: 10:00 a.m. – 11:30 a.m.

Presentations- Chair: Dr. Shalini Suryanarayan, Department of Sociology, Hindu College

Tea: 11:30 a.m. -12:00 Noon

Session II: 12:00 Noon – 1:30 p.m.

Presentations- Chair: Dr. Riaz Ahmad, Department of Political Science, Satyawati College

Lunch: 1:30 p.m. – 2:30 p.m.

Session III: 2:30 p.m. - 4:00 p.m.

Presentations- Chair: Dr. Rajni Sahni, Department of Psychology, Daulat Ram College

Tea: 4:30 p.m.

Day Six - 11 March 2019 (Monday)

Venue: Chemistry Lecture Theatre

10:00 a.m. – 11:30 a.m.

Understanding Ethnographic Fieldwork: Dr. Shailaja Menon, Department of History, Ambedkar University Delhi

Tea: 11:30 a.m. -12:00 Noon

Valedictory Session: 12:00 Noon – 1:30 p.m.

Certificate Distribution: Dr. Savita Roy, Principal, Daulat Ram College

Lunch: 1:30 p.m.

Note: Laptops will be issued by the college, however participants can bring their Laptops on 7 and 8 March

The Faculty Development Programme (FDP) on Survey Research was organised by the Department of Political Science from 5 to 11 March 2019. Organised under Internal Quality Assistance Cell (IQAC) of Daulat Ram College with partial assistance from Northern Regional Centre, Indian Council of Social Science Research (ICSSR), the FDP was informative, educative and enriching experience for the participants across disciplines.

Objectives

Since the objective of the FDP was to engage with the methodologies of research in survey that move beyond the boundaries of rigidity, narrower interpretations, mutually exclusive frameworks, binaries, and dichotomies, to a broader and comprehensive understanding of survey research, eminent scholars from various disciplines and institutions were invited as resource persons to engage with the participants from various disciplines. To make the programme interdisciplinary in nature, the resource persons from several disciplines such as Sociology, Social Anthropology, Political Science, History, Statistics, Education, and Psychology were invited to deliver lectures and each session was followed by interactions with the participants.

The participants not only learnt about the various survey methods, techniques, their merits as well as limitations, but also the steps/ways to make survey method more reliable by reducing the errors. The programme was a rigorous exercise as it traced the evolution of survey research in social science and its relevance and focused on the experiences in the field across time periods and contexts. The responsibility of the researcher to arrive at the correct findings of research was underlined in several sessions which compelled the participants to revisit their research question without being trapped in the binaries, dichotomies, biases and prejudices. We had three sessions exclusively for

practicing/hands on training/application on data entry, data tabulation and data cleaning on the excel worksheet which was an absorbing exercise.

Resource Persons and Participants

There were seventeen sessions based on broader themes of survey research (also see Programme). We had sixteen Resource Persons to lecture on the themes which were followed by discussions with the participants. It was a privilege and honour to have amongst us Prof. Vinay Srivastava, Prof. Satish Deshpande, Prof. Manoranjan Mohanty, Prof. Sanjay Kumar, Prof. Madhulika Banerjee, Prof. Sunil Choudhary, Prof. Haneet Gandhi, Dr. Riaz Ahmad, Dr. Shalini Suryanarayan, Dr. Susmita Mitra, Dr. Rajni Sahni, Dr. Shailaja Menon and Dr. Shahana Bhattacharya, as resource persons. There were thirtyseven participants, most of whom were Assistant Professors and Research Scholars from various disciplines and institutions. A great merit of the programme was that the sessions were bilingual (English and Hindi) and therefore benefited the participants. The Reading Materials for most of the sessions provided by the resource persons were distributed to the participants. The soft copy of the power point presentations made by the resource persons was also sent to the participants in their email address.

The participants were required to make presentations on four major themes in the Technical Sessions on Quantitative and Qualitative Techniques of Research, Questionnaire and Interview Schedule, Sampling Procedure, and Data Collection in Field Work. Majority of the participants made presentations based on their understandings of the sessions on survey methods in research and the presentation sessions were chaired by distinguished scholars/resource persons. The presentations reflected the outcome of the programme as they were appreciated by the Chair of the respective sessions. Alongside, the valid suggestions/recommendations and comments by the chair also benefited the

participants. The participants also shared their field experiences and journey of research which was an interactive and engaging session. The overview and comments from the participants in the Feedback Forms was very encouraging and motivating for us.

Summary of the Sessions

5 March

Session I

Inaugural Session

The Inaugural Session was graced by the Principal Dr. Savita Roy, Prof. Satish Deshpande, an eminent sociologist and Dr. Pooja Jain, IQAC observer.

Dr. Savita Roy shared her views and hopes about the six-day FDP.

Dr. Suranjita Ray welcomed the guests.

Dr. Moitree Bhattacharya spoke about the detail of the six-day course and the expected course outcome and the overall goal behind conducting the course. She also spoke about how the teachers and research scholars will be benefitted from the course.

This was followed by Prof Satish Deshpande's presentation. The theme of his presentation was 'Methodology as Persuasion'. Prof. Satish Deshpande, focused on Research as a process that is always rigorous, continuous and comprehensive. He emphasised that the intensity and duration of the research matters. It is the sincere efforts on the part of the researcher that makes the research and its findings valid. He argued that the interpretations, observations and analysis of the researcher are important in research and explicated the same with various visual documentaries, which enabled the participants to comprehend the views of the speaker.

Prof. Deshpande explained the relevance of methodology in research in social science in particular in a diverse society which makes it difficult to generalise. He argued that human actions and communication are based on a shared set of 'background' and that phenomenological sociology approaches commonsense with utmost respect while we realise that our efforts to transcend commonsense are always partial and provisional as it contains values and norms we cherish and wish to defend. It has infinite possible meanings which cannot be exhaustively described by the rational methods of natural science.

Therefore he emphasised that the gaps between theory and social experience remains and they need not always be filled. Though attempts to ensure a bias-free methodology are intensified, he argued that the search for value neutrality is a mirage as social sciences are themselves a product of the society they wish to analyse. It is important to accept the potential for bias and try to describe its possible sources as carefully and completely as possible alongside the researcher's personal identity and background, and the conditions in which the research is carried out.

Session II

Sanjay Kumar

Survey Methods

The session on Survey Methods by Prof. Sanjay Kumar emphasised on various methods of survey and more importantly interpreting the survey data and the behaviour of the interviewee. He discussed the reliability of surveys and survey data and their limitations. The relevance of structured questionnaire (closed-ended), un-structured questionnaire (open-ended), and (semi-structured questions) were highlighted. While in open-ended questions the respondent is given free hand to respond, in closed-ended questions the respondent has a limited choice. He emphasized that an ideal questionnaire is one which has more open-ended questions and space to further accommodate issues that one

learns during the field work. There should be uniformity in the method of data collection and data analysis.

Prof. Sanjay underlined the methods of data analysis in both quantitative and qualitative research which he argued is the technique and process through which the researcher gives meaning to the information collected from the respondents by him/her through field work. Therefore, the appropriate method to draw a sample size becomes important to arrive at the findings which can remain valid thereby making the survey research reliable. However, he underlined that the size of the sample and its percentage of representation is valid when the universe is small and does not help in case of large universe.

Session III

Vinay Srivastava

Survey Method and Field Work

Prof. Vinay Srivastava narrated his experiences of field work and his journey of research. He explicated in detail the debates on epistemology and the need to do in-depth research alongside the need to take field notes and take into cognizance the limitations and diversions that constantly challenge the research question. A constant struggle of the researcher in the area of social anthropology is to contest the closed-ended questions and make close observations. This will enable the researcher to make more meaningful interviews and data collection. The barrier of language, culture, rituals, traditions, myths, customs, beliefs, values, and food habits matter, and the researcher has to be sensitive to these issues/differences. Class, caste, gender, ethnicity, race and problems faced by the differently abled are important variables in research based on field work and the researcher has to be equally sensitive to these variables. Therefore, there cannot be a universal study on cultural dynamics.

Prof. Srivastava explained the open-ended as well as closed-ended questions and the means to test the validity of the interviews or responses. He emphasised on the issue of the muted responses which matter in research as silence/no-response is also a response, and the researcher has to be sensitive to such responses as well. The ethical questions are valid in research in social science and the researcher can choose to remain an outsider or an insider while interviewing and observing. He believed that academics and activism complement each other. The reflexive role of the researcher is also important and the researcher/interviewer is also interpreted by the interviewee or respondent. The body language of the researcher and language of communication as well as the role of the translator are interlocking variables across contexts and generations. Therefore, clarity and specificity in the questionnaire matters.

The researcher should not ignore the broader vision about field work and observation, and the advantages and disadvantages of mixed methods. Observations and insights are important in research. He argued that though the element of quantification is important, certain amount of inferences of the quantified facts/ statistics is always important. Complete reliance on only quantitative data has little enduring value as it is subject to change and transcends with time periods.

Prof. Srivastava insisted on the need to understand the changing aspects of different disciplines, anthropological methods, perspectives, theories, conclusion of cross-cultural studies, analytical strength, explanatory power, ethnography and the methodological sophistication of research in social anthropology.

A Brief Session on the Overview of the Six Day Course

The conveners explained the course scheduled for the six days alongside the broad sub-themes and guidelines for the technical sessions. Participants were told that they have to make presentations on the four major themes during the four technical sessions.

It was also told that every participant was required to introduce the speakers in the beginning of the session from the second day onwards, and summarise the lectures of the previous days sessions on a regular basis before the sessions began on each day. During the course of the FDP this became an engaging exercise for the participants as they got involved in the programme.

The participants were required to fill the Feedback Forms on each day at the end of the three sessions.

The IQAC Event Feedback Form was also to be filled by them to rate the various aspects of the FDP such as relevance of the lectures, research materials, facilities, registration process, and food/beverage as well as to give their comments/suggestions.

6 March

Session I

Sunil Choudhary

Evolution of Social Science Research

The lecture by Prof. Sunil Choudhary focused on the evolution of research in social science and the relevance of changing nature of methods in research which began with Method of Deduction during the early 19th century that was Eurocentric in approach. It was in the post II World War period and emergence of Third World Countries/newly independent developing societies, that saw the change in the locus and focus in social science research with the transition from

the method of Deduction to Induction. The third phase in the evolution of research in social science, he argued, was in the context of liberalisation, privatisation and globalisation in 1980s, when Experimentation based on field work began to gain prominence and the transition to empirical research became relevant.

Prof. Sunil underlined that there is nothing called finality in research in social science as there is no absolute truth. While one strives towards truth in research, and struggles to derive from the existing or perceived reality, conceptualisation of ideas, facts, institutions matters. Therefore, each of these phases explained in the language of an acronym DIE (Deduction, Induction and Experimentation) are transcending phases in the evolution of research in social science.

Session II

Haneet Gandhi

Sampling Designs and Sampling Errors

Prof. Haneet Gandhi explained in detail what is a sample, as well as the techniques of sampling method and its errors. She unfolded probability and non-probability sampling as the two broad types of sampling and discussed the various sub-types such as haphazard sampling, judgement sampling, quota sampling, simple random sampling, systematic sampling, cluster sampling method, multi-stage sampling and multi-phase sampling. Various types of sampling were clarified in detail with examples. She cautioned that biases in sampling do not take us towards a reliable finding.

Prof. Gandhi argued for the need to choose the correct sampling size and the need to analyse the problems of ground reality which are important in research in social science. It is important to have in-depth interview and discussion with the interviewee in ethnography research. The problem of periodicity and

interpretations are important variables in research. She focused on the relevance of review of literature in research to arrive at a comprehensive understanding of the research question as well as to contribute to the findings in research.

Session III

Sanjay Kumar

Sampling Procedure

This session by Prof. Sanjay Kumar was in continuation of his session on Survey Methods the previous day and also was in synchronisation with the previous session by Prof. Gandhi on Sampling Designs and Errors. Prof. Sanjay Kumar underlined that the merits of surveys and its reliability exists only when the sampling procedure is correct. He explained how most often the samples are not only small, but also unreliable since they hardly represent the characteristics of the Universe. Therefore, the sample size is important and the need to choose/draw a correct, appropriate, and representative sample is significant. He explicated the techniques to draw an appropriate sample which can be representative of the universe.

The two kinds of sampling techniques such as probability sampling and non - probability sampling and the various sub-types of sampling such as simple random, systematic random, multi stage systematic random sampling technique, stratified random sampling, cluster sampling were explained alongside the errors in sampling. The session was educative and learning for all the participants.

7 March

Session I

Susmita Mitra

Questionnaire/Schedule Designing, Filling up Schedule, Data Entry

Dr. Susmita Mitra discussed in detail the characteristics and basic requirements in a questionnaire and distinguished between a questionnaire and an interview schedule. She elucidated the different types of questionnaire commonly used, and the pros and cons of such questionnaire as well as the ethical issues in designing a questionnaire. Dr. Mitra explained in detail the logical sequencing in a questionnaire, avoiding ambiguities, filling up/data entry, pilot survey, quick analysis of data, and modifying the questionnaire according to requirements arising in the pilot survey. The participants had an enriching experience as they practiced data entry in the excel worksheets.

Session II

Susmita Mitra

Data Cleaning, Tabulation, Cross Tabulation in Excel

Dr. Susmita Mitra explained the basics of research learning, preparing questionnaire, open-ended and closed-ended questions, interview schedule designing, face to face/ one to one interview, time saving techniques and filling up of the interview schedule, and the funnel method of moving from general to particular.

She emphasised on the relevance of primary survey-based studies and the need to avoid sensitive questions. The participants learnt how to prepare a code sheet, separate sheets for household and individual data, exhaustive code, one column multiple choice questions, building a pivot table relation, and descriptive table in the excel worksheet. Dr. Mitra also clarified the maximising use of data and

its reliability, multiple-column data validation, practice of data designing and data entry, data cleaning, tabulation and cross tabulation in the excel worksheet.

Session III

Manoranjan Mohanty

Empirical Research : Exiting and Frustrating Moments

By Prof. Manoranjan Mohanty explained in detail the relevance of not being trapped in the binaries of subjective and objective research, normative and empirical research, theoretical and behavioural approach. Since the binaries have been killing research, he argued that there is a need to move beyond the fact-value dichotomy. As reflections, judgements, values, intuitions and interpretations play a significant role in research in social science, the reflexive methods which are philosophical, normative and qualitative are important in empirical research. Prof. Mohanty underlined the exiting and frustrating moments in his journey of research, both at the micro level and macro level research. While the problem of difference between ‘our questions’ and ‘their questions’ has been addressed to some extent in the inter-cultural studies, it remains an important concern in research in social science. The role of mediating agencies, be it the state, the voluntary agencies/ non-government organisations or the funding agencies and their influence in research studies should be understood. The researcher should not become a victim of the mediating variables.

Prof. Mohanty emphasised that ‘Research is the Pursuit of Truth’ and the researcher should have the freedom to revise, change and reject the ‘fundamental question’ in case it does not survive the investigation. Therefore, the contradictions and contextualities are important and the researcher should understand the original/central question and the research-propelled questions

and their inter-connections. The researcher has to go beyond programmed research which are technical in nature or purely based on data/quantitative survey research and an inclusive approach that gives space to qualitative analysis is important. The coexistence of opposite perspectives is crucial. He cautioned that the drawbacks of mechanically drawn samples as survey methods need to be understood in behavioural science.

8 March

Session I

Madhulika Banerjee

Using Mixed Methods in Doing Research

Prof. Madhulika Banerjee emphasised on the relevance of Mixed Methods in research. She argued that the historical journey of research is a methodology in itself that the researcher experiences. The indigenous knowledge emanating out of grassroots experiences is an important source which has been ignored in the modern knowledge system. A critical engagement with traditional knowledge which is dynamic is a significant methodology in the philosophy of science. Contextualising knowledge and an in-depth understanding of the sources of knowledge is important.

Prof. Banerjee underlined the role of Archives as an important source in the ethnography research. As both quantitative and qualitative research matter, extensive and in-depth interviews in ethnographic method privileges oral histories, archives, narratives that lead to a continuous exploration of the research question. The role of the state, policy document, research centres, civil society, movements and non-government organisations, market, ecology, and culture constitute the mixed sources (primary as well as secondary) which are valid in the analytical framework of research.

Session II

Susmita Mitra

Data Analysis and Visualization in Excel

Dr. Susmita Mitra discussed the elementary specifications about basic tool that one requires to analyse data in a survey research. She also focused on the importance of ethical issues while planning the questionnaire and in the process of statistical analysis and analysis of variation that improved respective research interests of the participants.

The interpretation of the interviewee also mattered in the validation of answers/responses. The need to build rapport with the interviewee/respondents required building confidentiality and trust, which called for declaring the purpose of the research or objective of interviewing and data collection to the respondent. The participants practiced the simple techniques of data analysis and its relevance. They benefited from the brainstorming session on tabulation and cross tabulation as well as data clearing in the excel worksheet.

The technical sessions were participant centred and there was an overwhelming response that was witnessed during the sessions.

Session III: Technical Session

Theme: Quantitative and Qualitative Techniques of Research

Presentations by Participants

Chair: Dr. Shahana Bhattacharya

9 March

Session I: Technical Session

Theme: Questionnaire and Interview Schedule

Presentations by Participants

Chair: Dr. Shalini Suryanarayan

Session II: Technical Session

Theme: Sampling Procedure

Presentations by Participants

Chair: Dr. Riaz Ahmad

Session III: Technical Session

Theme: Data Collection: Field Work

Presentations by participants

Chair: Dr. Rajni Sahni

11 March

Session I

Shailaja Menon

Understanding Ethnographic Fieldwork

Dr. Shailaja Menon's lecture was insightful and informative as she traced the roots of ethnographic research of the anthropologists, who engage in participant observation method while they are in the field. A detailed explanation on sociological ethnography and its many forms - the beliefs, values, and attitudes that structure the behaviour patterns of a specific group of people alongside the relevance of interviews, field notes, texts, visual data such as the transcripts, archives, oral history/narratives, written history, and memories, folk writings - are important. She unfolded the aims of observational research as seeing through the eyes of the people being observed, description as paying attention to the mundane details and contextualism as conveying messages in a complete manner to understand the wider social and historical context, and flexible research design as adapting research methods to various situations as they unfold, avoiding early use of theories and concepts. She explained the need to understand the conflicts that are embedded in society without being trapped in

preconceived notions, speculations, and wild guesses. There is a need to revisit the research question and not to be vulnerable to mutually exclusive frameworks of interpretations and analysis.

Dr. Menon also suggested several methodological issues that need to be considered such as defining a research problem, avoiding an early specification of definitions, hypothesis which puts too many constraints on what one is observing, developing animating questions, and to reconsider narrower/focused questions that limits the research topic. Since the history of the marginalised (Dalits and Women) is important in a diverse and plural society, research in social science should also be done from subaltern and feminist perspective.

Valedictory Session

Summing Up

Dr. Suranjita Ray summed up the six-day programme. She mentioned that the programme emphasized on the relevance of methodology in research in social science. This was discussed in-depth and analysed in various sessions that immensely benefitted the participants. The need to focus on the interdisciplinary aspect of survey research in social science was underlined as one of the merits and major achievements of the Faculty Development Programme.

Vote of Thanks

Dr. Moitree Bhattacharya, proposed the vote of thanks acknowledging the invaluable contributions and support of the participants, the resource persons, the Northern Regional Centre - ICSSR, the Observer ICSSR, the College IQAC, the Principal, the college non-teaching staff, and college alumna, without which the programme would not have been successful.

Certificate Distribution

Certificates were distributed to the participants by Dr. Savita Roy, Principal, Daulat Ram College; Dr. Vandana Mishra, the observer NCR, ICSSR; Dr. Pooja Jain, Convener, IQAC; and Dr. Vandana Tripathi, Teacher-in-Charge, Department of Political Science.

Group Photograph

This was followed by a Group Photograph

*Few Glimpses
of the
Sessions*







ACADEMIC ACTIVITIES DURING 2019-20 (Under IQAC)

IN-HOUSE SKILL DEVELOPMENT PROGRAMS (2019-2020)

Sponsored by

NATIONAL SKILL DEVELOPMENT CORPORATION

Convenor: Dr. Pooja V. Anand

The present day world presents many challenges brought about by globalization and excessive competition. These may be overwhelming for individuals and lead to anxiety, stress and lack of self-efficacy. To deal with these challenges and create an identity for themselves individuals must be equipped with certain crucial skills. Keeping this in mind and in line with the "Skill India" initiative, Daulat Ram College, University of Delhi has been organizing many in-house skill development programs for its students since 2015. The College successfully organized five programs in summer. All these courses were of one week duration.

"Latex and its Applications" (12th -19th July 2019)

Organized by : Physics Department

Objective: This Program provides an opportunity to learn LaTeX, a typesetting programming language. The students will be able to use this knowledge for producing high quality technical and scientific typeset documents, reports as well as for making pictures. This will surely benefit students and give them edge in their academics over others.

Convenor/co-convenor: The event was organized under the supervision of

1. Dr. Savita Roy (PRINCIPAL)
2. Dr. Onkar Mangla (CONVENOR)
3. IQAC Observer: Dr. Pooja Jain

Number and profile of participants

The participants of this seminar were the 26 graduation students of Physics (Hons) (II and IIIrd year) from Physics Department, Daulat Ram College.

"EXPLORING CHEMICALS IN NATURAL PRODUCTS, PROCESSED FOOD AND NUTRITIONAL FOOD SUPPLEMENTS" (4th July – 11th July, 2019)

Organized by : Chemistry Department

Objectives:

Harmful chemicals and toxic additives are hidden in many food items as well as a large number of multivitamins and supplement products. Although food industry has learned to label their foods as "natural", the truth is that more and more consumers are becoming aware that the word natural doesn't mean anything. The main aim to this program was to explore and analyse the chemicals in the form of preservatives, colorants, flavors and tex

turants present in our food. The students were given exposure to various analytical techniques and methods which are relevant to current and emerging industry need through various interesting modules.

Convenors – Dr. Priti Malhotra and Dr. Darshan

Number and profile of participants (from/outside DRC): Participants from DRC only

Total 20 students: Students from B.Sc (H) Chemistry 1st year and 2nd year, B.Sc (H) Botany 2nd year and 3rd year, B.Sc (H) Zoology 3rd year, B.Sc (Life Science) 1st, 2nd year and 3rd year.

Name of IQAC observer: Dr. Pooja Jain, Convener IQAC



BASICS OF BIOINFORMATICS: THEORY & PRACTICE **(11th - 17th JULY, 2019)**

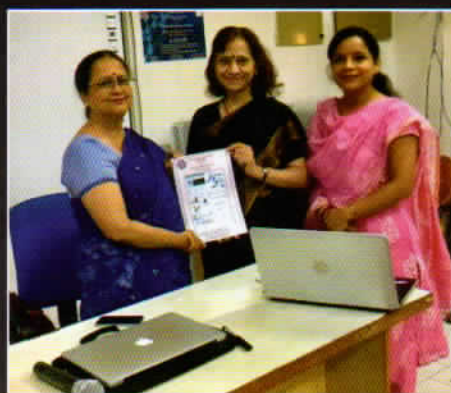
Organised by: DEPARTMENT OF BOTANY

Course Coordinators: Dr. Nidhi Gautam and Dr. Meenakshi Sharma

BIOINFORMATICS: Bioinformatics is a new interdisciplinary area of the science that is composed of Biology, Chemistry, Mathematics and Computer science. This SDP program provided a basic but essential training to the students for working in this cutting-edge Computer based discipline. It was one week long practical workshop that included theoretical and hands-on training in basic bioinformatics techniques. Participants learned basic of genomics and analysis of biological data using various computational tools. The course was divided into two parts: theoretical and Practical sessions on daily basis. All participants were introduced with more than 20 online and offline bioinformatics tool and trained as how to use all of them for the genomics analysis.

APPLICATIONS OF IN-HOUSE SKILL DEVELOPMENT BIOINFORMATICS PROGRAMME:

With the help of this training based programme participants became experts of bioinformatics tools to do high-capacity analysis of genes and proteins. This hand on programme improved the career prospects of the participants by developing a range of transferable skills such database-interrogating skills etc. An informative manual was also prepared and distributed to all 37 participants for further use.



'RAS RANJINI' (27th May 2019 to 3rd June 2019)

Organized by: Music Department (INSTRUMENTAL SITAR)

Co-ordinator: Dr. Sumita Chakravorty

Music Department of Daulat Ram College organised a Skill Development Program in Techniques of Sitar Playing Titled 'RasRanjini' from 27th May 2019 to 3rd June 2019. Students participated enthusiastically in the workshop. They were taught the techniques of Sitar playing, a few lifting tunes like VandeMadaram 'Raga Desh' based, Hum HongeKamiyab during the workshop. Students thoroughly enjoyed the workshop. Dr. Savita Roy, Principal Daulat Ram College and Dr. PoojaAnand graced the occasion of orientation by their presence. She encouraged the students. Department incharge Dr. DeeptiBansal was also presented.

'RasRanjini' has made an effort to inculcate values amongst students through music. It has taught them the importance of group performance by teaching them 'VandeMatram' and group patriotic song on Sitar 'Hum HongeKamiyab'.

Objective of the Course - To create awareness about the importance of music and to enable participants to nurture their talent in the field of music.

Brief Description of the Course - Basic knowledge of Swara (notes) Raga and Tala (Rhythm, beats), then it was followed by practical and intensive training, holding and playing the instrument Sitar. Purpose of this skill development certificate course is to spread the awareness of the instrument SITAR, its playing techniques and to spread peace and harmony around every one. There were 20 participants. On 3rd June students gave their presentation by playing the beautiful melodious melodies in Sitar. Dr. DeeptiBansal, Dr. ShardaGautam, Dr. SaurabhJi, Dr. Manish Kumar Chaudhary gave lecture. Tabla accompaniment by Sh. Lalit Kumar Dixit and Swarmandal played by ShriBabuLal.

"RESEARCH METHODOLOGY" (27th of May 2019 to 3rd of June 2019)

Organized by: COMMERCE DEPARTMENT

Objectives- to inculcate the skill of research in students of DRC and create the environment of research in DRC.

Convenor/ co-convenor -Dr. Gunjan Gupta and Dr. Minakshi Paliwal

Number and profile of participants (from/outside DRC) – restricted to students of DRC, only undergraduate students, list of students attached, no. of participants are 24.

Name of IQAC observer—Dr. Pooja V Anand

Method of assessments of participants -

Students were divided into 6 groups. On last day they analyzed their results and presented their research work over laptop. Competition environment was created to assess the outcome of this whole program and announced prizes for the winner.



Vth Value Engagement Programme on “Values Enhancing Wellbeing” (August 10 to September 30, 2019)

Organized by - Psychology Department.

Convenor : Dr. Meetu Khosla

Co-convenor : Dr. Sandhya Rani Hawbam

Number and profile of participants (from DRC): 30 first year students form DRC

Objectives : The main objective of this course is to involve values in enhancing wellbeing. Significantly Indian society sets immense expectations on the student of today. The burden on them to perform, to achieve and deliver, whether or not they have the capability to do so has consequences for the student. This pressurizes them emotionally and cognitively having consequences on their wellbeing. Hence this program intends to help the students to identify their values that can help them in enhancing their wellbeing. What kind of values help us modulate our emotions, a simple example can be forgiveness that can reduce pain and bring peace or reduce anger and replace it with more constructive emotions that will build wellbeing.

Similarly in relationships, what values help in building relationships, such as values of sharing and caring...and so on... for productivity, personal values that enhance meaning in life and give us happiness in our pursuits.....of mental capital emphasizes upon the capabilities that one has yet is not aware of, so values of persistence can help one to overcome the obstacles of life and strive authentically towards the goal...

The speakers of the different sessions were Dr Meetu Khosla, Dr Preeti Kapur, Dr Pooja V Anand, Dr Rakhi Singh, Dr Sandhya Rani, Dr Deepesh Rathore, Ms Binusha Joycell, Dr Deepti Bansal, Dr Rajni Sahni, Ms Selene Khosla, Dr. Sarita Nanda and Dr. Pooja Jain.

Name of IQAC observer: Dr. Suranjita Ray

Method of assessments of participants - Oral Presentations using ppt, discussions, charts, written tasks, pre and post tests on wellbeing.

THE DEPARTMENT OF ENGLISH
DAULAT RAM COLLEGE, UNIVERSITY OF DELHI
UNDER THE AEGIS OF IQAC

is conducting an Orientation Workshop on



ACADEMIC READING AND WRITING
FOR
FIRST YEAR ENGLISH HONOURS STUDENTS
FROM: 23rd JULY TO 28th JULY, 2018

VENUE: CONFERENCE ROOM

TIME: 1.50 TO 2.50PM

INAUGURAL SESSION

(Open for all English Honours Students)

23rd July, 2018

Speaker: Dr. Anjana Neira Dev, Associate Professor,
Department of English, Gargi College, University of Delhi

Dr. Anjana Neira Dev did her MPhil from the University of Cambridge and her PhD in Indian English Poetry from the Department of Humanities and Social Sciences, IIT Delhi. Her PhD dissertation titled *Nations within and without: a Study of Seven Post-Independence Indian English Poets* has since been published (2012). In addition to teaching literature and language to English majors, she also teaches courses on Academic Writing, Business Communication, Technical Writing and Creative Writing to students majoring in other disciplines. Her published books include four textbooks commissioned by the University of Delhi: an edited bilingual anthology on *Indian Literature: An Introduction* (2005), *Business English* (2008), *Creative Writing: A Beginner's Manual* (2009), and an edited *Anthology of Indian English Poetry and Short Stories* (2014).

Co-ordinator:
Ms. Sakshi Wason

Ms. Sangeeta Gupta

Dr. Savita Roy

Department of English
Daulat Ram College

Teacher-in-charge
Department of English
Daulat Ram College

Principal
Daulat Ram College