

Session 2021-22

Intra College Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories

April 19-25, 2022

Department of Biochemistry

Under the DBT sponsored Star College Scheme, Department of Biochemistry along with Department of Botany, Chemistry and Zoology successfully organized Intra-College Laboratory Skill Training Programme from April 19-25, 2022 in the college premises. In total there were around 16 participants who have attended this training program. Department of Biochemistry conducted the training programme on April 22 under the supervision of Dr. Jayita Thakur, Dr. Renu Baweja, Dr. Sunita Singh, Dr. Usha Yadav, Dr. Abhijeet Mishra and Dr. Kritika Raj on the following major topics:

Session I: Hematology: Test and Significance

Session II: The Spectrophotometry: Hands-on Training

Session III: Hands-on Training in Drosophila Culturing



Training session conducted by Dr. Renu Baweja and Dr. Abhijeet Mishra



Training Session conducted by Dr. Sunita Singh and Dr. Usha Yadav



Training Session conducted by Dr. Jayita Thakur and Dr. Kritika Raj

Department of Botany

Inter-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from April 19-25, 2022 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. A total of 16 participants attended the workshop from Shivaji College with different disciplines like Zoology, Chemistry, Botany, Computer Science, Biochemistry. The Lab Staff Training Workshop in Botany on April 21, 2022, imparted knowledge and cleared basics about

Session I: handling, working and maintaining microscopes,

Session II: chromatographic techniques and

Session III: sterilization techniques



Intra-College Lab Skill Training Programme on 21-4-22 in Botany Department

Department of Chemistry

Intra-College Laboratory Skill Training Program was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 19th April to 25th April, 2022 under the aegis DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. A total of 20 participants attended the workshop from different disciplines like Zoology, Chemistry, Computer Science, Botany and Biochemistry. The Lab Staff Training Workshop in chemistry helped in equipping lab staff (Assistants and Attendants) better to prepare accurate solutions (with defined normality and molarity), how to put set-up for distillation and maintenance and calibration of instruments (pH meter, potentiometer and conductivity meter, digital water bath, UV chamber).







**Inter College Laboratory Skill Training Programme for
Assistants/Attendants in the Chemical and Life Science Laboratories
September 14-20, 2021**

Department of Biochemistry

Under the DBT sponsored Star College Scheme, Department of Biochemistry along with Department of Botany, Chemistry and Zoology successfully organized Inter-College Laboratory Skill Training Programme from September 14-20, 2021 in the college premises. In total there were around 20 participants from various colleges, who attended this training program. Department of Biochemistry conducted the training programme on September 15, 2022 under the supervision of Prof. Neena R. Wadehra, Prof. Rashmi Wardhan, Prof. Darshan Malik, Dr. Jayita Thakur, Dr. Renu Baweja, Dr. Sunita Singh and Dr. Usha Yadav on the following major topics:

1. Electrophoresis
2. Gel Permeation Chromatography
3. Spectrophotometer and Incubator
4. Sterilization methods



Training session by Prof. Neena R Wadehra and Dr. Usha Yadav



Training Session by Prof. Rashmi Wardhan and Dr. Renu Baweja



Training Session by Dr. Jayita Thakur and Dr. Sunita Singh

Department of Botany

Inter-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 14th September to 20th September, 2021 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. Due to the ongoing restrictions and social distancing norms, a total of 22 participants were shortlisted and attended the workshop from different colleges, namely, Bhaskacharya College of Applied Sciences, Deshbandhu College, Gargi College, Kirori Mal College, Daulat Ram College, Bhagini Nivedita College, Miranda House, Ramjas College, Hansraj College, Shivaji College with different disciplines like Zoology, Chemistry,

Microbiology, Botany, Biomedical Sciences, Biochemistry, Food Technology. The Lab Staff Training Workshop in Botany on September 14, 2021, imparted knowledge and cleared basics about handling, working and maintaining instruments like microscopes, pipettes and micropipettes, centrifuge and the process of staining and considerations to be taken during preparation of stains.



Department of Chemistry

Inter-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 14th September to 20th September, 2021 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. A total of 14 participants attended the workshop from different colleges and disciplines like Zoology, Chemistry, Computer Science, Botany and

Biochemistry, Bio-medical Sciences, Life Science, Botany, Food Technology and Microbiology. The Lab Staff Training Workshop in chemistry helped in equipping lab staff (Assistants and Attendants) better to handle chemicals specially the solvents used in Chemistry laboratories, to handle and maintain glasswares, to prepare accurate solutions (with defined normality and molarity), how to put set-up for distillation and maintenance and calibration of instruments (pH meter, potentiometer and conductivity meter).



Department of Zoology

Intra-College Laboratory Skill Training Program was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 19th April to 25th April, 2022 under the aegis of DBT sponsored Star College Scheme involving Department of Biochemistry,

Botany, Chemistry and Zoology. A total of 20 participants attended the workshop from different disciplines like Zoology, Chemistry, Computer Science, Botany and Biochemistry.

Teachers involved: Dr. Deepika Yadav, Ms. Nimita Kant, Mr. Manish K Sachdeva, Dr. Aeshna Nigam, Dr. Jitendra K Chaudhary, Dr. Parul Kulshreshtha, Dr. Ankita Dua, Dr. Neetu Singh, Dr. Tarun K Vats, Dr. Nidhi Garg, Dr. Rakesh Roshan

The Lab Staff Training Workshop in Zoology helped in equipping lab staff (Assistants and Attendants) on the following topics:

1. Digitalization of Lab and Museum Data
2. Microbiological Media Preparation
3. Concept and Applications of Serial Dilution in Life Science Laboratory
4. Agarose Gel Electrophoresis: Preparation of Agarose Gel & Usage & Maintenance of equipment





**Intra College Laboratory Skill Training Programme for
Assistants/Attendants in the Chemical and Life Science Laboratories**

August 11-17, 2021

Department of Biochemistry

Under the DBT sponsored Star College Scheme, Department of Biochemistry along with Department of Botany, Chemistry and Zoology successfully organized Intra-College Laboratory Skill Training Programme from August 11-15, 2021 in the college premises. In total there were around 16 participants who have attended this training program. Department of Biochemistry conducted the training programme on August 12 under the supervision of Prof. Neena R. Wadehra, Prof. Rashmi Wardhan, Prof. Darshan Malik, Dr. Jayita Thakur, Dr. Renu Baweja, Dr. Sunita Singh and Dr. Usha Yadav on the following major topics:

1. Biohazards and Biosafety
2. Hands on Training of UV-Visible Spectrophotometer, BOD Incubator and Shaker Incubator
3. Sterilization Methods: Physical and Chemical Methods
4. Column Chromatography Techniques: Activation of DEAE Cellulose and Activation of Sephadex



Address by Coordinator, Prof. Darshan Malik Training Session by Prof. Darshan Malik during the inaugural session



Training session by Prof. Neena R Wadehra and Dr. Usha Yadav



Training Session by Prof. Rashmi Wardhan and Dr. Renu Baweja



Training Session by Dr. Jayita Thakur and Dr. Sunita Singh

Department of Botany

Intra-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 11th August to 17th August, 2021 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. A total of 20 participants attended the workshop from Shivaji College with different disciplines like Zoology, Chemistry, Botany, Computer Science, Biochemistry. The Lab Staff Training Workshop in Botany on 16 August 2021, imparted knowledge and cleared basics about handling, working and maintaining instruments like microscopes, pipettes and micropipettes, centrifuge and the process of staining and considerations to be taken during preparation of stains.



Department of Chemistry

Intra-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 11th August to 17th August, 2021 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. A total of 20 participants attended the workshop from different disciplines like Zoology, Chemistry, Computer Science, Botany and Biochemistry. The Lab Staff Training Workshop in chemistry helped in equipping lab staff (Assistants and Attendants) better to handle chemicals specially the solvents used in Chemistry laboratories, to handle and maintain glasswares, to prepare accurate solutions (with defined normality and molarity), how to put set-up for distillation and maintenance and calibration of instruments (pH meter, potentiometer and conductivity meter).



**Intra College Laboratory Skill Training Programme for
Assistants/Attendants in the Chemical and Life Science Laboratories**

August 11-17, 2021

Department of Zoology

A Intra Laboratory Skill Training Programme for Assistants/ Attendants in the Chemical and Life Science Laboratories was organized by the Department of Zoology along with Botany, Biochemistry & Chemistry Department from 11th August -17th August ,2021.

Zoology Training session was organized on 11th August 2021 under the supervision of Dr. Sunita Gupta, Dr. Deepika Yadav, Ms. Nimita Kant, Dr. Aeshna Nigam, Dr. Jitendra K Chaudhary, Dr. Parul Kulshreshtha, Dr. Ankita Dua, Dr. Neetu Singh, Dr. Tarun K Vats, Dr. Nidhi Garg, Dr. Rakesh Roshan.

Total 20 participants (Lab-in-charges, Lab Attendants & Lab assistants) successfully completed the hands-on training program. Participants number were restricted due to adherence to COVID protocols.

The following hands on sessions were conducted during the training program:

1. Concept and Applications of Serial Dilution in Life Sciences Laboratory
2. Agarose Gel Electrophoresis: Preparation of Agarose Gel & Usage & Maintenance of equipment
3. Media preparation
4. Museum Keeping



SHIVAJI COLLEGE
NAAC Accredited 'A' Grade
(UNIVERSITY OF DELHI)
Under the Aegis Of DBT Star College Scheme



LABORATORY SKILL TRAINING PROGRAMME
for
Assistants/Attendants in the Chemical and Life Science Laboratories
11th August – 17th August, 2021



To register use the link below:
<https://forms.gle/z4ZHwMLCaNzvvpaz8>

DBT SCS Coordinator Prof. Darshan Malik	Event Coordinator: Dr. Deepika Yadav Ms. Nimita Kant	Principal: Prof. Shiv Kumar Sahdev
Departments: Biochemistry: Botany:	Convener: Dr. Renu Baweja Dr. Anuradha Mai	Co-convenor: Dr. Jayita Thakur Dr. Pratima Rani Sardar & Dr. Divya Mohanty Dr. Richa Arora Ms. Nimita Kant
Chemistry : Zoology:	Dr. P. K. Sahu Dr. Deepika Yadav	





**Inter College Laboratory Skill Training Programme for
Assistants/Attendants in the Chemical and Life Science Laboratories**

September 14-20, 2021

Department of Zoology

A hands-on Inter -college Laboratory Skill Training Program for Assistants/ Attendants in the CHEMICAL AND LIFE science Laboratories was organized under DBT Star College Scheme from 14th -20th September 2021. Twenty-three laboratory staff from all over Delhi University participated and successfully completed the hands-on training sessions.

Teachers involved: Dr. Sunita Gupta, Dr. Deepika Yadav, Ms. Nimita Kant, Mr. Manish K Sachdeva, Dr. Aeshna Nigam, Dr. Jitendra K Chaudhary, Dr. Parul Kulshreshtha, Dr. Ankita Dua, Dr. Neetu Singh, Dr. Tarun K Vats, Dr. Nidhi Garg, Dr. Rakesh Roshan
Zoology session : 17th September 2021



Department of Botany
Shivaji College
 (NAAC Accredited Grade 'A')
University of Delhi
 Under the aegis of DBT Star College Scheme





organizes

**Inter-College
LABORATORY SKILL
TRAINING
PROGRAMME**
for
**Assistants/Attendants in the
Chemical and Life Science
Laboratories**
(14th - 20th September, 2021)

Register at:
<https://forms.gle/WvZ9tAmP4kx0t77>



***No registration fee to be paid

<p>Departments:</p> <p>Biochemistry:</p> <p>Botany:</p> <p>Chemistry :</p> <p>Zoology:</p>	<p>Convener:</p> <p>Dr. Renu Baweja Dr. Anuradha Mal</p> <p>Dr. P. K. Sahu Dr. Deepika Yadav</p>	<p>Co-convenor:</p> <p>Dr. Jayita Thakur Dr. Pratima Rani Sardar & Dr. Divya Mohanty Dr. Richa Arora Ms. Nimita Kant</p>
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DBT SCS Coordinator
Prof. Darshan Malik

Programme Coordinator
Dr. Anuradha Mal
Dr. Pratima Rani Sardar

Principal
Prof. Shiv Kumar Sahdev





The following hands-on sessions were conducted during the training program:

1. Buffer Preparation

2. Agarose Gel Electrophoresis: Preparation of Agarose Gel & Usage & Maintenance of equipment
3. Microbiological Media preparation
4. Museum upkeep and maintenance

**Intra College Laboratory Skill Training Programme for
Assistants/Attendants in the Chemical and Life Science Laboratories
April 19-25, 2022**

Department of Zoology

A Intra Laboratory Skill Training Programme for Assistants/ Attendants in the Chemical and Life Science Laboratories was organized by the Department of Zoology along with Botany, Biochemistry & Chemistry Department from 11th August -17th August ,2021. Zoology Training session was organized on 11th August 2021 under the supervision of Dr. Sunita Gupta, Dr. Deepika Yadav, Ms. Nimita Kant, Dr. Aeshna Nigam, Dr. Jitendra K Chaudhary, Dr. Parul Kulshreshtha, Dr. Ankita Dua, Dr. Neetu Singh, Dr. Tarun K Vats, Dr. Nidhi Garg, Dr. Rakesh Roshan.

Total 20 participants (Lab-in-charges, Lab Attendants & Lab assistants) successfully completed the hands-on training program. Participants number were restricted due to adherence to COVID protocols.

The following hands on sessions were conducted during the training program:

1. Concept and Applications of Serial Dilution in Life Sciences Laboratory
2. Agarose Gel Electrophoresis: Preparation of Agarose Gel & Usage & Maintenance of equipment
3. Media preparation
4. Museum Keeping



SHIVAJI COLLEGE

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Under the Aegis Of DBT Star College Scheme



LABORATORY SKILL TRAINING PROGRAMME for Assistants/Attendants in the Chemical and Life Science Laboratories 11th August – 17th August, 2021



To register use the link below:

<https://forms.gle/z4ZHwMLcaNzvvpaz8>

DBT SCS Coordinator
Prof. Darshan Malik

Event Coordinator:
Dr. Deepika Yadav
Ms. Nimita Kant

Principal:
Prof. Shiv Kumar Sahdev

Departments:

Biochemistry:
Botany:

Chemistry :
Zoology:

Convener:

Dr. Renu Baweja
Dr. Anuradha Mal

Dr. P. K. Sahu
Dr. Deepika Yadav

Co-convenor:

Dr. Jayita Thakur
Dr. Pratima Rani Sarder &
Dr. Divya Mohanty
Dr. Richa Arora
Ms. Nimita Kant





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Session 2020-21

Inter College Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories

February 8-15, 2021

Department of Biochemistry

Under the DBT sponsored Star College Scheme, Department of Biochemistry along with Department of Botany, Chemistry and Zoology successfully organized Inter-College Laboratory Skill Training Programme from February 08-15, 2021 in the college premises. Department of Biochemistry conducted the training programme on February 08 under the supervision of Dr. Neena R. Wadehra, Dr. Rashmi Wardhan, Dr. Darshan Malik, Dr. Jayita Thakur, Dr. Renu Baweja, Dr. Sunita Singh and Ms. Usha Yadav on the following major topics:

1. Biohazards and Biosafety
2. Good Lab Practices
3. Hands on Practice for operating Oven, Incubator, Microwave, and Deep Freezer for Laboratory Work
4. Sterilization Techniques. Working knowledge of Autoclave and laminar Hood
5. Agarose Gel Electrophoresis: Dye Preparation, Gel Casting and Disposal



Address by Principal, Dr. Shiv Kumar Sahdev during the inaugural session



Training Session by Dr. Darshan Malik



Training Session by Dr. Sunita Singh



Training Session by Dr. Neena R Wadehra



Training Session by Dr. Usha Yadav



Training Session by Dr. Renu Baweja



Training Session by Dr. Sunita Singh




Training Session by Dr. Jayita Thakur



Group Photo of participants along with Principal, Coordinator and all the Resource Persons of Lab-Skill Training Program

Department of Botany

Inter-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 9th February to 12th February, 2021 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. A total of 25 participants attended the workshop from different colleges, namely, Hindu College, Ramjas College, Institute of Home Economics, Maitreyi College, ARSD College, Dyal Singh College and Zakir Hussain College with different disciplines like Zoology, Chemistry, Microbiology, Botany, Food Technology, Physics and Geography. The Lab Staff Training Workshop in Botany imparted knowledge and cleared basics about handling, working and maintaining instruments like microscopes, pipettes and micropipettes, centrifuge and the process of staining and considerations to be taken during preparation of stains.



Shivaji College
NAAC Accredited & Approved
University of Delhi
Under the aegis of DBT sponsored Star College Scheme
Programme

LABORATORY SKILL TRAINING PROGRAMME
for
Laboratory Assistants/Attendants in the Chemical and Life Sciences Laboratories
February 8-12, 2021 (10:00AM – 2:00PM)

Link for the registration form: <https://forms.gle/3MAAX2WdHtLgH7BnH>
Last date of registration: February 7, 2021

Co-ordinator: Dr. Renu Bhowmik Dr. Anuradha Mishra Dr. P. K. Saha Dr. Anupama Saha	Co-ordinator: Dr. Anita Kumar Dr. Pratima Sanyal Dr. Renu Bhowmik Dr. Anuradha Mishra Dr. P. K. Saha Dr. Anupama Saha
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Dr. Renu Bhowmik, Co-ordinator, Star College Scheme Certificates will be given to all the participants Dr. Shikha Kumar Sanyal, Officiating Principal

Day 4: February 11, 2021, 10:00 AM to 2:00 PM

Department of Botany

Sessions and Resource Persons			
Session I	Session II	Session III	Session IV
Microscopy: Introduction to Microscopy, use and Maintenance Preparation of Slides	Pipette and Micropipette: Use and maintenance of Pipettes and Micropipettes	Staining Stains: Uses and preparations	Hands on Practice for Operating Centrifuge Introduction to Centrifuge: Its use and maintenance
Dr. Anuradha Mishra Dr. Pratima Sanyal Dr. Suman Tabor	Dr. Anita Kumar Dr. Renu Bhowmik Dr. Divya Mohanty	Dr. Vijay Kumar Dr. Pratima Sanyal Dr. Nigam Mondal Dr. Anurag Mishra	Dr. Smita Tripathi Dr. Shikha Kumar Dr. Divender S. Mishra

Department of Chemistry

Inter-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 9th February to 12th February, 2021 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. A total of 25 participants attended the workshop from different

colleges, namely, Hindu College, Ramjas College, Institute of Home Economics, Maitreyi College, ARSD College, Dyal Singh College and Zakir Hussain College with different disciplines like Zoology, Chemistry, Microbiology, Botany, Food Technology, Physics and Geography. The Lab Staff Training Workshop in chemistry helped in equipping lab staff (Assistants and Attendants) better to handle chemicals, to prepare accurate solutions (with defined normality and molarity) and also how to maintain apparatus and instruments (pH meter, potentiometer and conductivity meter) properly along with maintenance and handling of conductivity cell and combined electrodes. Also, they were trained in techniques like TLC and distillation setup, use of weighing balance, set up to determine melting point using Kjeldahl flask.



Department of Zoology

Department of Zoology organised the Inter College Laboratory Skill Training sessions on February 10, 2021 under the supervision of Dr. Deepika Yadav, Ms. Nimita Kant, Mr. Manish

Kr. Sachdeva, Dr. Aeshna Nigam, Dr. Parul Kulshreshtha, Dr. Jitendra Kr. Chaudhary, Dr. Ankita Dua, Dr. Neetu Singh, Dr. Tarun Kr. Vats, Dr. Nidhi Garg and Dr. Rakesh Roshan.

Twenty laboratory staff from various Delhi University colleges participated in the following hands on sessions conducted during the training program:

1. Buffer Preparation
2. Instrumentation: Colorimeter & Spectrophotometer Care and Handling
3. Media preparation
4. Museum Keeping



Session 2019-20

Laboratory Skill Training Programme

1. Intra-College Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories from May 20 – 24, 2019
2. Inter College Lab Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories from 27th November- 3rd December 2019

Intra-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from May 20 – 24, 2019 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. During this five day training Lab Assistants and Attendants were trained for various Lab safety procedures, better handling of chemicals, to prepare accurate solutions and also how to maintain apparatus and instruments properly. Through this program the laboratory assistants/attendants were better equipped to carry out various lab based duties efficiently.

Total 24 participants from Department of Biochemistry, Botany, Chemistry, Physics, Geography, Computer Science and Zoology of Shivaji College successfully completed the training.



Learning outcomes

This five day training program was devised with the objective to impart specialized laboratory skills through hands on training to the assistants and attendants of biological and chemical laboratories..

The training program ensured better understanding of:

- Various sterilization techniques, handling of common laboratory equipment, dialysis, preparation of electrophoretic gels.
- Preparation of stains, microscopy applications and maintenance, to measure and deliver accurate volume of liquid using pipettes and micropipettes, slide preparation and centrifugation handling.
- Handling chemicals, preparation of solutions (with defined normality and molarity) and to maintain apparatus and instruments properly.
- Handling media and pouring plates for microbiological work, making chemicals for various experiments and maintaining museum.

Department of Biochemistry

Department of Biochemistry conducted the training programme under the supervision of Dr. Rashmi Wardhan, Dr. Darshan Malik, Dr. Jayita Thakur, Dr. Renu Baweja, Dr. Sunita Singh and Ms. Usha Yadav on the following major topics:

- Sterilization Techniques: Autoclave, Operating the laminar hood. Hands on practice for operating oven, incubator & microwave for laboratory work.
- Dialysis and Ion exchange chromatography.
- Preparation of gels for electrophoresis.



Department of Botany

Department of Botany conducted the training programme under the supervision of Dr. Anuradha Mal, Dr. Anita Kapur, Dr. Vijay Kumar, Dr. Pratima Rani Sardar, Dr. Prabhavathi, Dr. Kiran Bamel, Dr. Smita Tripathi, Dr. Misha Yadav, Dr. Seema Talwar, Dr. Nupur Mondal, Dr. Divya Mohanty, Dr. Devender S. Meena, Dr. Anurag Maurya on the following major topics:

- Microscopy: Introduction to Microscopy, use and Maintenance. preparation of Slides
- Pipette and Micropipette: Use and maintenance of Pipettes and Micropipettes

- Staining: Stains: Uses and preparations
- Hands on Practice for Operating Centrifuge: Introduction to Centrifuge: Its use and maintenance





Department of Chemistry

Department of Chemistry conducted the training programme under the supervision of Dr. Manjula Singh, Dr. Anil Kr. Aggarwal, Dr. P. K. Sahu, Dr. Rajni Kanojia,

Dr. Bhaskar Mohan Kandpal, Dr. Neena Khanna, Dr. N. G. Giri, Dr. Rahul Singhal, Dr. Vandana Katoch, Dr. Richa Arora, Mr. Deepesh Singh, Dr. Pooja Saluja, Dr. Shilpa Jain, Mr. Narinder Kumar, Dr. Sunil Yadav, Ms. Priyanka Kumari, Dr. Pallavi Agarwal and Dr. Uma Narang on the following major topics:

- Calibration of Instruments and Glasswares: Pipette, Burette, Thermometer etc.
- Organic Practical Apparatus Arrangement: Distillation Apparatus & TLC
- Preparation of Solutions: Normal, Molar Solutions etc.
- Volumetric Analysis: Titrations, Indicators
- Instrumentation: pH meter, Potentiometer, Colorimeter, Conductometer etc.



Department of Zoology

Department of Zoology conducted the training programme under the supervision of Dr. Deepika Yadav, Ms. Nimita Kant, Dr. Aeshna Nigam, Dr. Jitendra K Singh, Dr. Ankita Dua, Dr. Rashmi Singh, Dr. Neetu Singh and Dr. Tarun Kumar Vats on the following major topics:

- Buffer Preparation: Preparation of Buffer, Concepts of Molarity & Normality
- Instrumentation: Colorimeter & Spectrophotometer Handling and Care
- Microbiology: Preparation of media & aseptic conditions in a Microbiology laboratory
- Museum Keeping: Animal specimen maintenance



Also a **computer training program** was conducted by Mr. Ratan Deep and Mr. Afroj Khan on the following topics:

- Basic Desktop Operations
- Internet Browsing, Mailing and Microsoft Tools Used in Daily Office Work

Inter College Lab Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories

November 27 – December 03, 2019

Inter College Lab Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories was organised under DBT Star College Scheme from 27th November- 3rd December 2019 at Shivaji College.

Participants were from 11 different colleges across the University of Delhi.

Total 35 participants successfully completed the training. An evaluation was also conducted at the end of the training.

Department of Biochemistry

Department of Biochemistry conducted the training programme under the supervision of Dr. Rashmi Wardhan, Dr. Darshan Malik, Dr. Jayita Thakur, Dr. Renu Baweja and Dr. Sunita Singh on the following major topics:

- Sterilization Techniques: Autoclave, Operating the laminar hood. Hands on practice for operating oven, incubator & microwave for laboratory work.
- Ion exchange chromatography.
- Agarose Gel electrophoresis.

Department of Botany

Department of Botany conducted the training programme under the supervision of Dr. Anuradha Mal, Dr. Anita Kapur, Dr. Vijay Kumar, Dr. Pratima Rani Sardar, Dr. Prabhavathi, Dr. Kiran Bamel, Dr. Smita Tripathi, Dr. Misha Yadav, Dr. Seema Talwar, Dr. Nupur Mondal, Dr. Divya Mohanty, Dr. Devender S. Meena, Dr. Anurag Maurya on the following major topics:

- Microscopy: Introduction to Microscopy, use and Maintenance. preparation of Slides
- Pipette and Micropipette: Use and maintenance of Pipettes and Micropipettes
- Staining: Stains: Uses and preparations
- Hands on Practice for Operating Centrifuge: Introduction to Centrifuge: Its use and maintenance

Department of Chemistry

Department of Chemistry conducted the training programme under the supervision of Dr. Manjula Singh, Dr. Anil Kr. Aggarwal, Dr. P. K. Sahu, Dr. Rajni Kanojia, Dr. Bhaskar Mohan Kandpal, Dr. Neena Khanna, Dr. N. G. Giri, Dr. Rahul Singhal, Dr. Vandana Katoch, Dr. Richa Arora, Mr. Deepesh Singh, Dr. Pooja Saluja, Dr. Shilpa Jain, Mr. Narinder Kumar, Dr. Sunil Yadav, Ms. Priyanka Kumari, Dr. Pallavi Agarwal and Dr. Uma Narang on the following major topics:

- Calibration of Instruments and Glasswares: Pipette, Burette, Thermometer etc.
- Organic Practical Apparatus Arrangement: Distillation Apparatus & TLC

- Preparation of Solutions: Normal, Molar Solutions etc.
- Volumetric Analysis: Titrations, Indicators
- Instrumentation: pH meter, Potentiometer, Colorimeter, Conductometer

Department of Zoology

Department of Zoology conducted the training programme under the supervision of Dr. Deepika Yadav, Ms. Nimita Kant, Dr. Aeshna Nigam, Dr. Jitendra K Chaudhary, Dr. Parul Kulshreshtha, Dr. Ankita Dua , Dr. Neetu Singh, Dr. Tarun K Vats, Dr. Nidhi Garg, Dr. Rakesh Roshan on the following major topics:

- Buffer Preparation
- Preparation of media and aseptic conditions in microbiology laboratory
- Instrumentation: Colorimeter & Spectrophotometer Care and Handling
- Museum Keeping

A.O.(Administration) Mr. Hemant Lamba and A.O.(Account) Mr. Parveen Kumar conducted a session on General Office Rules and Regulations.

Mr. Ratan from Computer Department conducted a session on Computer Applications in Office Work.



SHIVAJI COLLEGE

NAAC Accredited A Grade
(UNIVERSITY OF DELHI)
Under the Aegis Of DBT Star College Scheme



LABORATORY SKILL TRAINING PROGRAMME

for
**Laboratory Assistants/Attendants in the Chemical
and Life Science Laboratories**

27th November – 3rd December, 2019

Please send the complete filled registration form to the given email Id
shivajiskilldevelopmentprogram@gmail.com
 Limited seats available, last date for application is 25th November 2019

Biochemistry: Botany: Chemistry : Zoology:	Convener: Dr. Renu Baweja Dr. Anuradha Mal Dr. P. K. Sahu Dr. Deepika Yadav	Co-convenor Dr. Jayita Thakur Dr. Pratima Rani Sardar Dr. Nand Gopal Giri Ms. Nimita Kant
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Principal
 Dr. Shashi Nijhawan

Coordinator
 Dr. Darshan Malik



