

DEPARTMENT OF BIOTECHNOLOGY

Ministry of Science & Technology, Govt. of India

STAR STATUS SCHEME



SRI VENKATESWARA COLLEGE

(University of Delhi)

Benito Juarez Road

DhaultaKuan, New Delhi 110021

www.svc.ac.in

I: Academic and Infrastructural Development

1. Name of Departments supported and respective coordinators:

| <u>DEPARTMENT SUPPORTED</u> | <u>DEPARTMENT COORDINATOR</u> |
|--|---|
| BIOCHEMISTRY | Dr. Nandita Narayanasamy |
| BIOTECHNOLOGY | Dr. Anju Kaicker |
| BOTANY | Dr. Shukla Saluja and Dr Kalyani Krishna |
| CHEMISTRY | Dr. Sharda Pasricha |
| PHYSICS | Dr. K. Chandramani Singh |
| ZOOLOGY | Dr P S Dhanraj and Dr. Anita Verma |

2. Name of Coordinator, designation, address, phone nos.:

Dr. Nandita Narayanasamy

Associate Professor, Department of Biochemistry, Sri Venkateswara College

DhaultaKuan, New Delhi 110021

Phone: 01124112196/24118590

Fax: 01124118535

Email: nandita1993@gmail.com

One of the direct effects of the improved academic training provided to the students as an impact of the DBT star grant was the increase in the cut-off percentages and the decrease in the dropout rates. There was also an over improvement in the pass percentage of the college. For the year 2016-17, many of the students of the college secured University ranks. However due to the introduction of the Choice based Credit system of education in 2016, the university results appeared as CGPA thereafter, the ranking system became irrelevant and ambiguous.

NUMBER OF POSITIONS IN UNIVERSITY:

| S.no. | Name | Course | Year | Rank |
|--|-------------------------|-------------------------------|-----------|----------|
| 1 | Ms. Rashi Goel | B Sc (H) Biochemistry- III yr | 2014-2015 | DU-I |
| 2 | Ms. Indrani Mukherjee | B Sc (H) Biochemistry- III yr | 2014-2015 | UDSC-II |
| 3 | Ms. Charu | B Sc (H) Biochemistry- III yr | 2014-2015 | UDSC-III |
| 4 | Ms. Shraddha Mohanty | B Sc (H) Biochemistry- I yr | 2014-2015 | DU-I |
| 5 | Ms. Megha Srigyan | B Sc (H) Biochemistry- I yr | 2014-2015 | DU-II |
| 6 | Ms. Nikita Goyal | B Sc (H) Biochemistry- I yr | 2014-2015 | DU-III |
| 7 | Ms. Gaurika Garg | B Sc (H) Biochemistry- II yr | 2014-2015 | UDSC-I |
| 8 | Mr. Prateek Chawla | B Sc (H) Biochemistry- II yr | 2014-2015 | UDSC-II |
| 9 | Ms. Sharanya P | B Sc (H) Biochemistry- II yr | 2014-2015 | UDSC-III |
| 10 | Ms. Diksha Batra | B Sc (H) Botany- I yr | 2014-2015 | UDSC-I |
| 11 | Mr. Abhishek Aggarwal | B Sc (H) Physics- III yr | 2014-2015 | UDSC-I |
| 12 | Ms. Pooja Mittal | B Sc (H) Zoology- III yr | 2014-2015 | UDSC-I |
| 13 | Ms. Palak Banzal | B Sc (H) Chemistry- I yr | 2014-2015 | UDSC-I |
| 14 | Ms. Sharanya Premraj | B Sc (H) Biochemistry- III yr | 2015-2016 | DU-II |
| 15 | Ms. Sharanya Premraj | B Sc (H) Biochemistry- III yr | 2015-2016 | UDSC-I |
| 16 | Ms. Gaurika Garg | B Sc (H) Biochemistry- III yr | 2015-2016 | UDSC-II |
| 17 | Ms. Antara Ghoshal | B Sc (H) Biochemistry- III yr | 2015-2016 | UDSC-III |
| 18 | Ms. Nidhi Mittal | B Sc (H) Biochemistry- II yr | 2015-2016 | UDSC-I |
| 19 | Ms. Megha Srigyan | B Sc (H) Biochemistry-II yr | 2015-2016 | UDSC-II |
| 20 | Ms. Shraddha Mohanty | B Sc (H) Biochemistry- II yr | 2015-2016 | UDSC-III |
| 21 | Ms. Meher Monga | B Sc (H) Biochemistry- I yr | 2015-2016 | UDSC-I |
| 22 | Ms. Aishwarya Venugopal | B Sc (H) Biochemistry- I yr | 2015-2016 | UDSC-II |
| 23 | Mr. Rohan Kapoor | B Sc (H) Biochemistry- I yr | 2015-2016 | UDSC-III |
| 24 | Ms. Anjali Duggal | B Sc (H) Chemistry-III yr | 2015-2016 | DU-III |
| 25 | Ms. Naveen Goyal | B Sc (H) Chemistry- I yr | 2015-2016 | UDSC-III |
| (*DU- University of Delhi /UDSC-University of Delhi, South campus) | | | | |

Quantitative improvements in instrument procurement, library stock expansion due to DBT support helped provide Better Exposure to Hands on Training for students in basics and advances through DBT-Star College Student projects and Value Added Experiments. Financial

aid provided by the DBT Star helped in the purchase of many consumables like reagents, glassware etc. which enabled us to carry out hands on practical classes for all the students more effectively

List of Major Instruments purchased under Star college grant 2016-17

| S. No. | Name of the Equipment | No. of Units | Date of order | Purchased/ Installation | Department |
|--------|--|--------------|---------------|-------------------------|--------------------|
| 1 | Metrex Scientific Instruments - Autoclave | 1 | 14.03.16 | Installed | Biochemistry |
| 2 | Systronics- Spectrophotometer | 2 | 28-1- 2016 | Installed | Biochemistry |
| 3 | LCD Projector | 1 | 16-1-2017 | Installed | Biochemistry |
| 4 | Micropipettes | 2 Sets | 12-9-2016 | Purchased | Biochemistry |
| 6 | Olympus Stereo microscope | 2 | 20.03.17 | Installed | Biochemistry |
| 7 | Water Bath and digital thermometer | 1 | 20.03.17 | Procured | Biochemistry |
| 8 | Orbital Shaker Incubator | 1 | 2-03-2017 | Procured | Biochemistry |
| 9 | Plastocraft refrigerated centrifuge | 1 | - | In Process | Biotechnology |
| 10 | Microscopes – PM Scientific | 10 | 28-3-16 | Installed | Botany |
| 11 | Nikon Binocular microscopes, Model No. E-100 (LED) with infinity corrected optical system. | 10 | 28-3-2017 | Procured | Botany and Zoology |
| 12 | D C Milli Ammeter | 8 | 12-01-2017 | Installed | Physics |
| 13 | Hydrogen Spectra | 2 | 12-01-2017 | Installed | Physics |
| 14 | Sextant Exp | 1 | 20-1-2017 | Installed | Physics |
| 15 | Refrigerator | 1 | 09-08-2016 | Procured | Physics |

| | | | | | |
|-----|----------------------------|---|------------|------------|-----------|
| 16 | Meldie Exp | 1 | 20-1-2017 | Installed | Physics |
| 17 | High temperature microwave | 1 | 30.03.17 | In Process | Chemistry |
| 18 | Polarimeter | 1 | - | In process | Physics |
| 19. | Gauss Meter | 2 | 29-8-2016 | Procured | Physics |
| 20. | e/m Bar Magnet | 1 | 5-10-2016 | Procured | Physics |
| 21. | e/m Magnetic Focussing | 2 | 27-1-2017 | Procured | Physics |
| 22. | Calender and Barrens | 1 | 21-02-2017 | Procured | Physics |
| 23 | Micropipettes | 6 | 29-3-17 | Procured | Zoology |
| 24. | Weighing Balance | 1 | 24-3-17 | Procured | Zoology |
| 25. | Aquarium | 1 | 31-3-17 | Procured | Zoology |

List of Major Instruments purchased under Star college grant 2017-19

| S.No | Name of the Instrument | Quantity | Name of the Vendor | Whether issued to department | Installation | Payment Status |
|------|----------------------------------|---|------------------------|------------------------------|--------------|----------------|
| 1. | Visible Spectrophotometer | 3(C-02 BC01) | Biogenix | Yes | Done | Done |
| 2. | Ice Flaking | 02 (BC-01 Z-01) | Solution One | Yes | Done | Done |
| 3 | Western Blotting | 03(Z-02 BC-01) | Scientific Systems | Yes | Done | Done |
| 4. | Micropipettes | 09+07 (BS 03 Bc-04 Zoo=04 Bot-1 Biotech=01 Chem=01) | Biogenix+ Solution One | Yes | Done | Done |
| 5 | Inverted Microscope | 01(B=01) | Olympus | Yes | Done | Done |
| 6. | Semi Microbalance | 01(B=01) | Scientific Systems | Yes | Done | Done |
| 7. | pH meter | 23(C-21 B-01 BC-01) | Biogenix | Yes | Done | Done |
| 8. | Vertical Autoclave | 03(BS-01 BT-01 Z-01) | Scientific Systems | Yes | Done | Done |
| 9. | Conductivity Meter | 09(C-09) | Scientific Systems | Yes | Done | Done |
| 10. | Colorimeter | 20(C-20) | Scientific Systems | Yes | Done | Done |
| 11. | UV-Vis(T-119) | 01(C-01) | Biogenix | Yes | Done | Done |
| 12. | Digital DO meter | 03(Z=01 B=01 Bc=01) | Scientific Systems | Yes | Done | Done |
| 13. | -20 deep freeze | 01(BT=01) | Solution One | Yes | Done | Done |
| 14. | 4 Degree glass Door refrigerator | 01(Biochem) | Biogenix | Yes | Done | Under process |
| 15. | Distillation Unit | 02(Bs-01 B=01) | SG Enterprises | Yes | Pending | Not Done |
| 16. | U V Torch | 01(BS=01) | Sri Fort Associate | Yes | Done | Done |
| 17. | Autoclave | 01(C=01) | City Instrument | Yes | Done | Done |

DBT Star Status College: Academic and Infrastructure



Sri Venkateswara College

University of Delhi

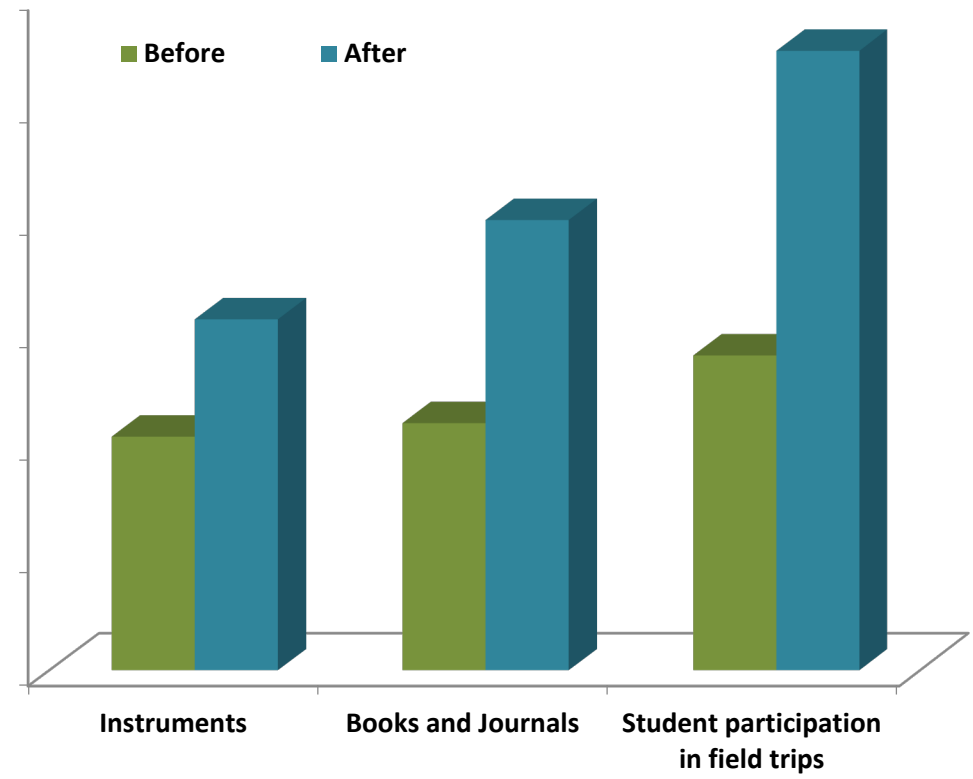
Benito Juarez Road, Dhaula Kuan, New Delhi - 110021

www.svc.ac.in

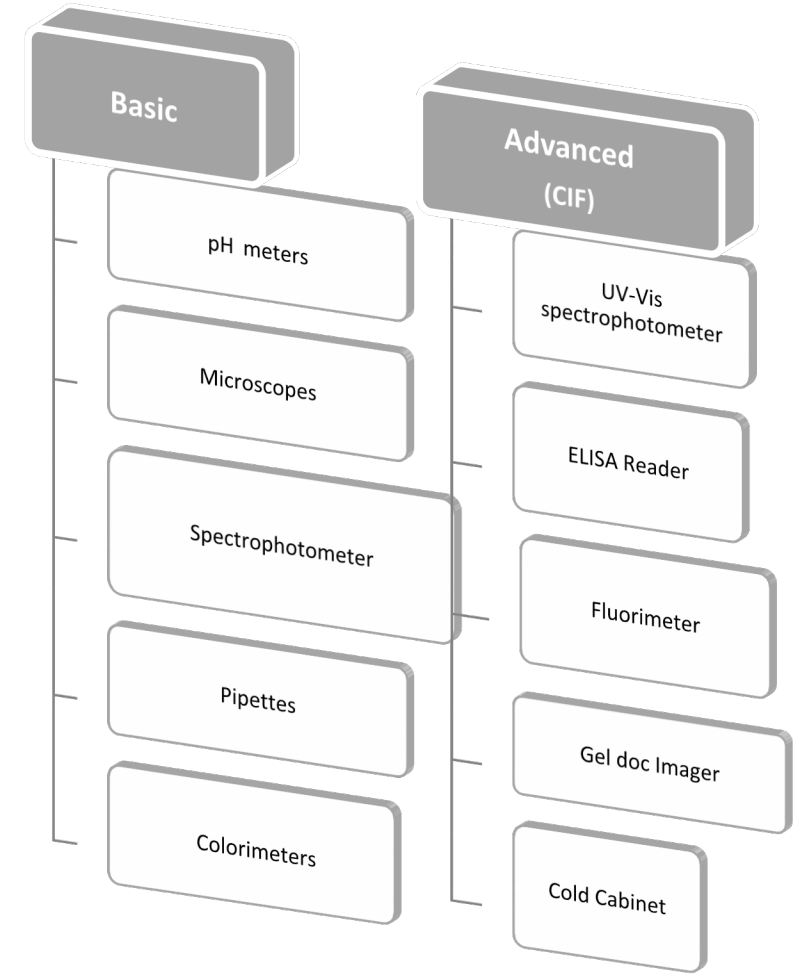


Improvement of Infrastructure & Resources

Number of instruments/copies of books/students

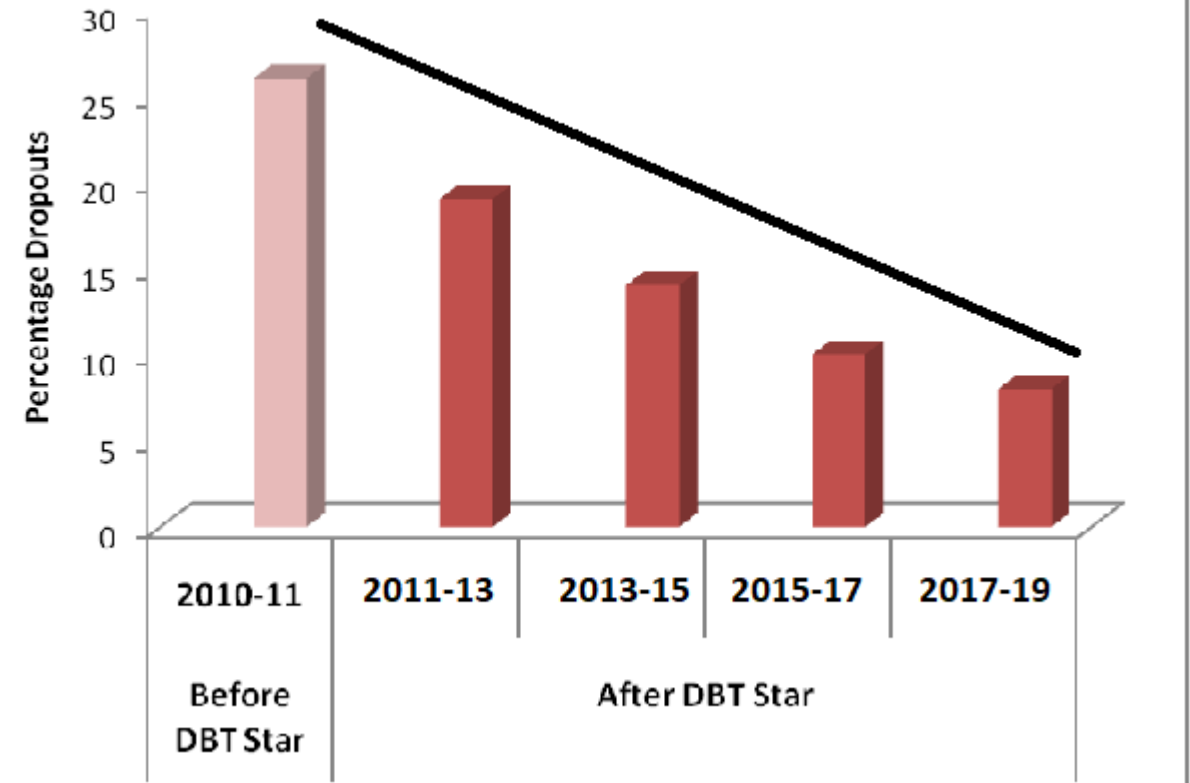
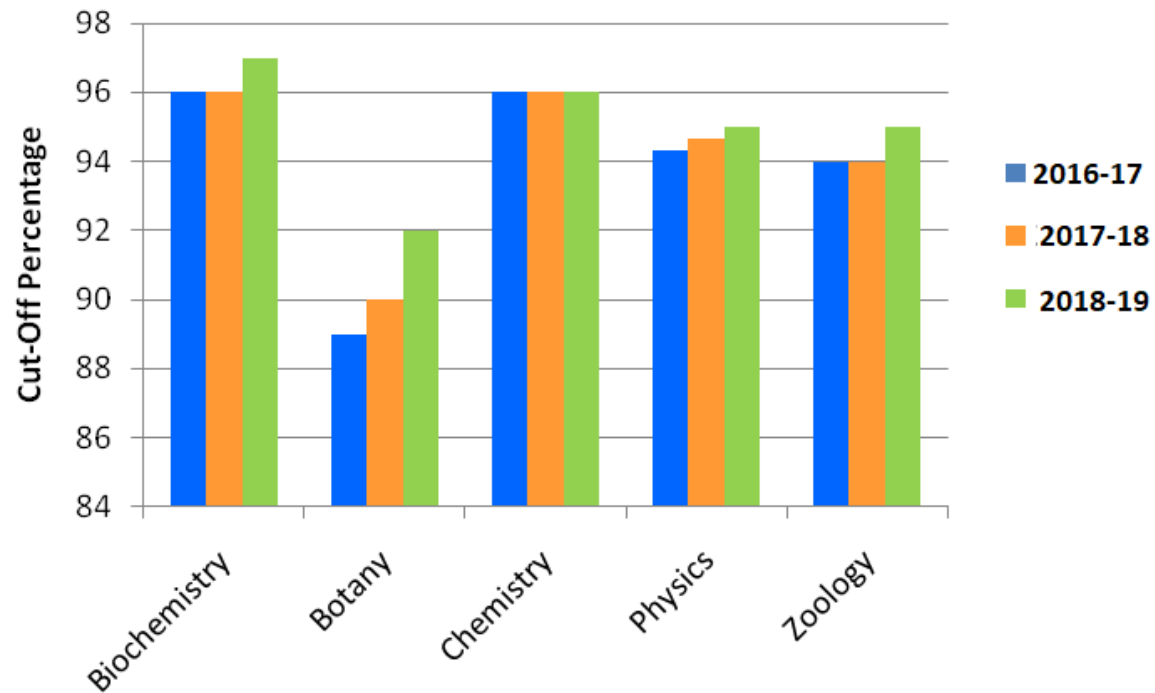


Instruments





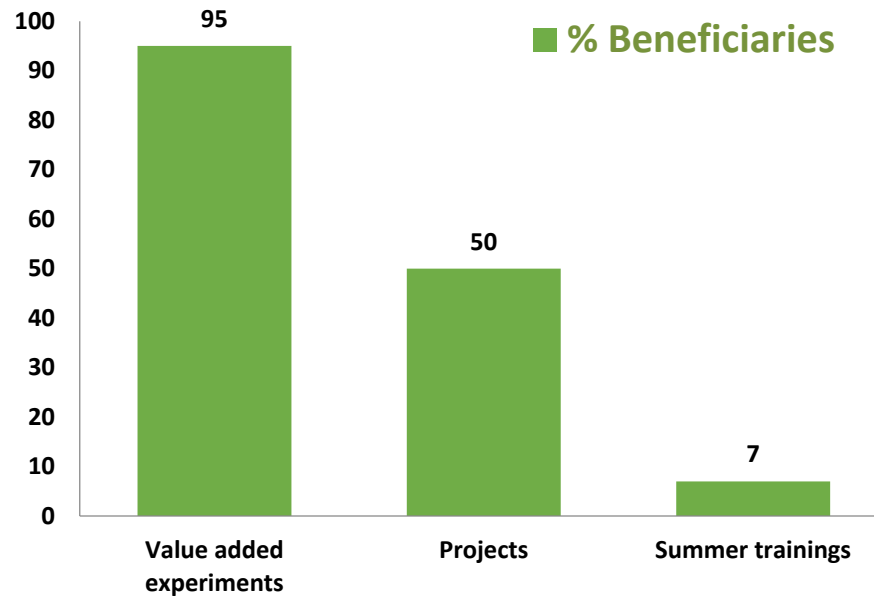
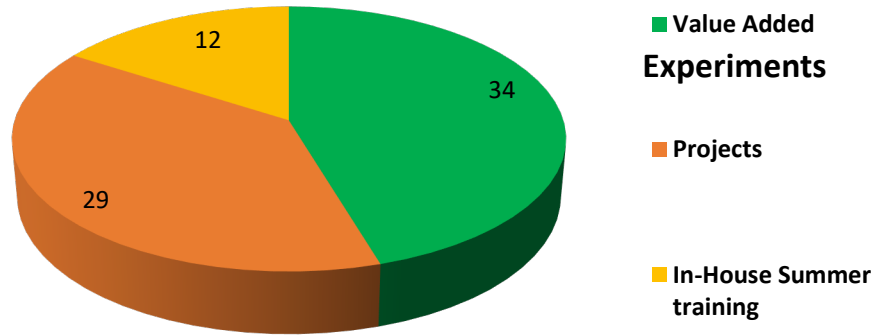
Impact on cutoff percentages and dropout rates





Student Training & Placements

Hands on Training



Placements

