



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI), KALKAJI, GOVINDPURI, NEW DELHI- 110019



INNOVATIVE PRACTICES UNDER THE AEGIS OF DBT-STAR COLLEGE SCHEME

STUDENT RELATED ACTIVITIES

Students Achievements

24 Presentations/Awards Won in Conferences & Workshops

04 Merit Positions in University

123 Students involved in Interdisciplinary Research Projects under DBT STAR

66 Students involved in Interdisciplinary Research Projects under DBT STAR

105 Students pursuing Post Graduation in National Universities

11 Students pursuing Post Graduation in International Universities

INTERDISCIPLINARY ACTIVITIES

| Students pursuing Higher studies abroad | |
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| Student | University |
| Priya Chopra | Bonn Cologne Graduate School of Physics & Astronomy, Bonn, GERMANY |
| Bishal K. Das | Czech University of Life Sciences, Prague, CZECH REPUBLIC |
| Anshuman Tripathi | Bonn Cologne Graduate School of Physics & Astronomy, Bonn, GERMANY |
| Siddharth Das | Bonn Cologne Graduate School of Physics & Astronomy, Bonn, GERMANY |
| Jatinder Pal Singh | Bonn Cologne Graduate School of Physics & Astronomy, Bonn, GERMANY |
| Pratyaksh Budhiraja | Bonn University, GERMANY |
| Madan Khatiwada | Erasmus+ Joint Master degree Programme in Leading International Vaccinology Education (Universitat Autonoma de Barcelona, Universitat de Barcelona, University of Antwerp, Universite Claude Bernard Lyon 1, Universite Jean Monnet Saint Etienne) |
| Shazeb Ahmad | MS FOKUS Life Science, Graduate School of Life Science, University of Würzburg, Germany |
| Srishti Vajpayee | Master's Biomedical Science with specialization in Molecular Life Sciences, Radboud University, Nijmegen, Netherlands |

| STUDENT'S NAME & AWARD | CONFERENCE/ WORKSHOP |
|--|--|
| Gaurav Aggarwal & Priyanka Chauhan won First prize in Poster Presentation on Synthesis of silver nanoparticles using <i>Terminalia bellerica</i> : Physicochemical characterization and their antibiogram evaluation | 6th World Congress on Nano-medical Sciences, January 7-9, 2019, Vigyan Bhawan, New Delhi |
| Ravina Tandon won First prize in Poster Presentation on Remediation on Heavy Metal Ion Toxicity from Waste Water Using Functionalised Chitin | International Conference of the Public Health Foundation of India and Pacific Basin Consortium, November 14-16, 2017 |
| Chaitanya Raj & Senjuti Sengupta won First prize in Paper Presentation on Investigation of the effects of Ethidium Bromide and Cadmium on DNA using Surface Plasmon Resonance technique | National Seminar on 'New Trends in Nanotechnology and Applications' organised by Department of Physics, Atma Ram Sanatan Dharma College, September 2018. |

Industrial/Educational Visits & Collaboration

| INDUSTRIAL/ EDUCATIONAL VISIT | |
|--|--|
| Visit to Department of Zoology, University of Delhi to observe <i>Drosophila</i> cultures, life cycle stages and mutant flies | |
| Visit to Finger Print Department, Crime Branch, New Delhi to learn about automated finger print analysis through AFIS | |
| Visit to Indian Agricultural Research Institute (IARI), Delhi to learn about the application & scope of biofertilizers in India | |
| Visit to CSIR-IHBT & CSK-HPKV, Palampur, Himachal Pradesh to learn about microbiology/ bio-fermenters | |
| Visit to ASHOKA- super Computing Facility & Data Centre-ICAR at Indian Agricultural Statistics Research Institute (IASRI) | |
| Visit to Inter University Accelerator Centre | |
| Visit to attend the investiture ceremony at Vigyan Bhawan, New Delhi wherein CSIR, Govt. of India announced Winners of the 'Shanti Swarup Bhatnagar' awards | |
| Visit to EMDL, Dept. of Physics & Astrophysics, University of Delhi & introduced to frontier areas of research in experimental material science | |
| Visit to Microelectronic Devices Fabrication Laboratory based in University of Delhi, | |
| Visit to Indian International Science Festival (IISF) organised by Ministry of Science & Technology, Ministry of Earth Sciences at Indra Gandhi Pratishthan, Lucknow. | |
| A visit to Translational Health Sciences and Technology Institute for a period of one week | |
| Visit to EMDL, Department of Physics & Astrophysics, University of Delhi to learn about rudiments of thin film deposition techniques | |
| Visit to Microelectronic Devices Fabrication Laboratory, University of Delhi to learn about finer nuances of Integrated Chip manufacturing in a Class-1000 room wearing anti-static clothing | |
| Visit to IARI to learn about latest techniques involved in apiculture | |
| A visit to Aravalli Biodiversity Park to learn about important issues biodiversity conservation strategies | |
| Visit to HAIC to learn about the technical processes involved in production of honey on an industrial scale | |
| Visit to NCMRWF to make students aware of high performance computing of Super Computers CRAY, PARAM & BHASKARA | |

Shadow A Scientist Program at THSTI

Four Students visits the Translational Health Sciences and Technology Institute (THSTI) and work under their scientists for a period of one week. They worked in the Pediatric Biology Centre (PBC).

IISF, 2018 @ Lucknow

A delegation was sent from our college to attend the festival, which consisted of Amit Babu (B.Sc(H) Biomedical Science, 2nd year and Anmol Singh(B.Sc.(H.) Zoology, 2nd year.

Research Activities @ANDC

SPIE Student Chapter:

Special grant of USD5000 and USD4000 to organize Optics Outreach Activity. Student awarded Officers' Travel Grant of USD 2500 each year to attend Optics and Photonics Conference at San Diego, USA – last 7 years

Ph.D. Thesis Submitted

08

Students Registered for Ph.D.

23

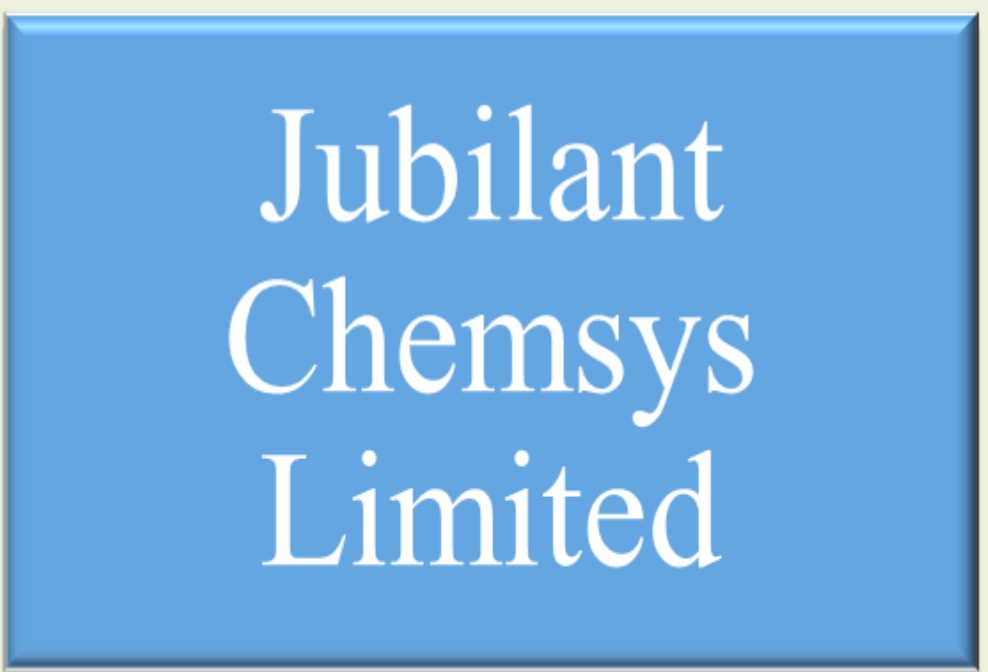


QC Chemist Industrial Collaboration (NSQF-4)

Quality control (QC) chemist

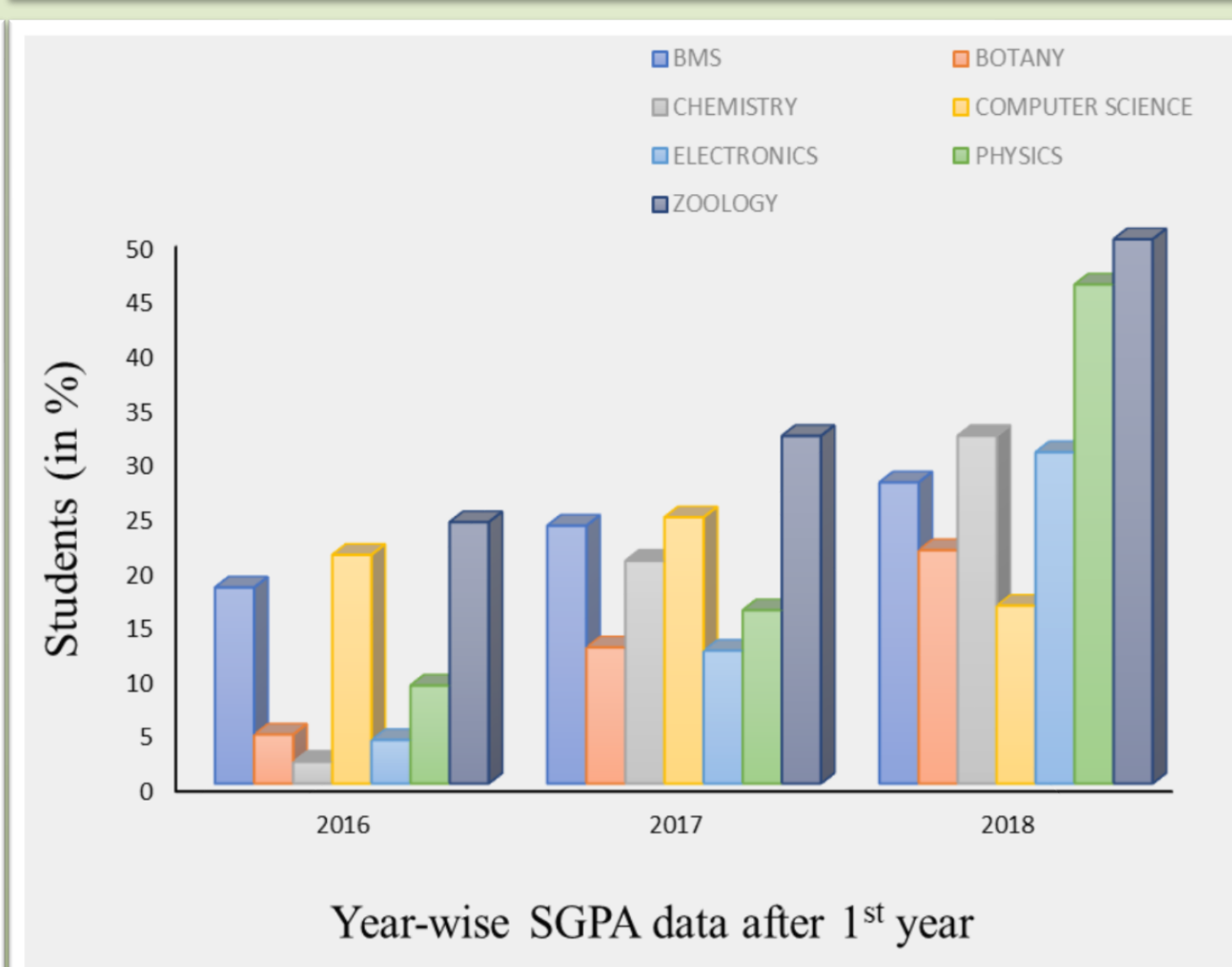
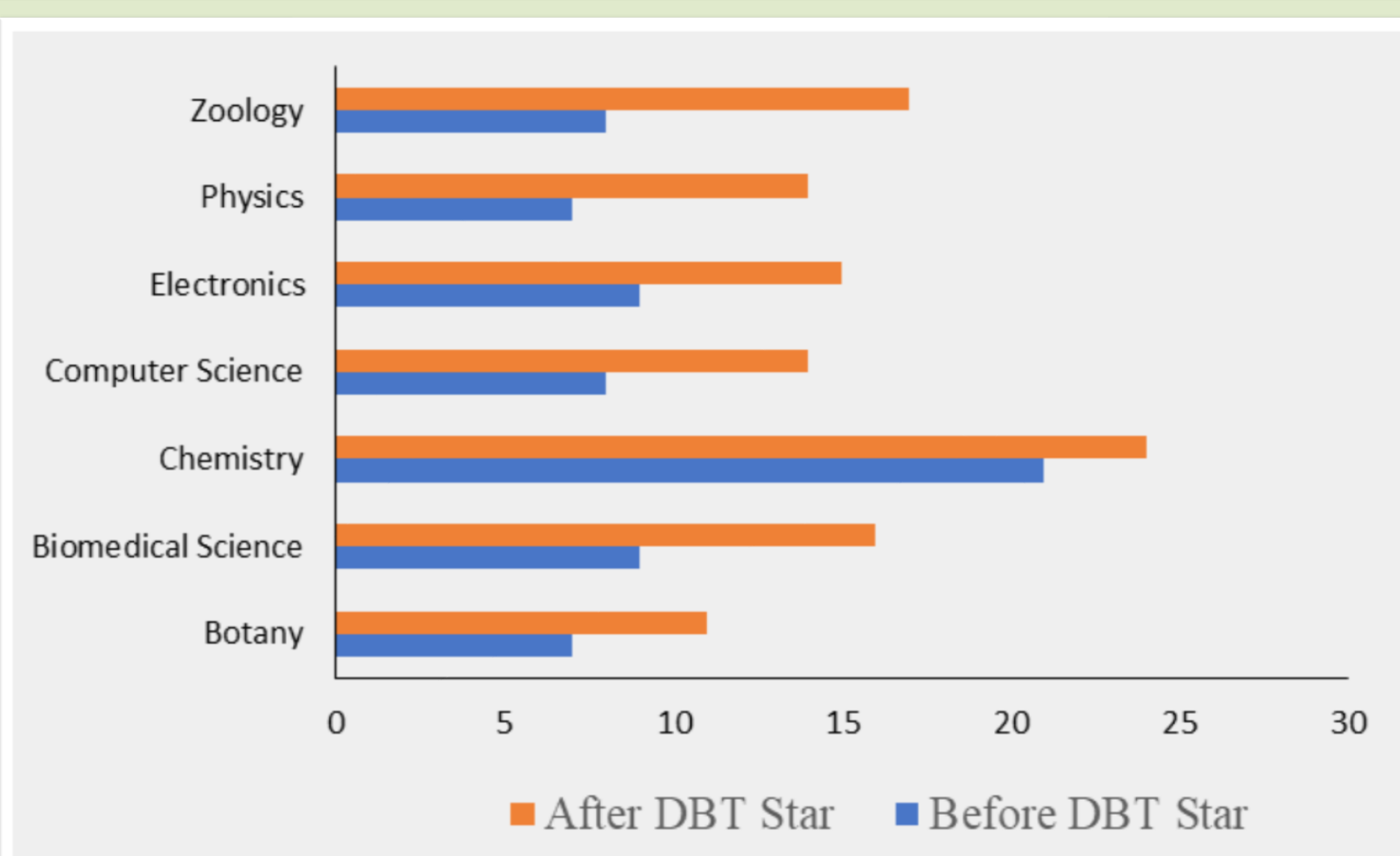
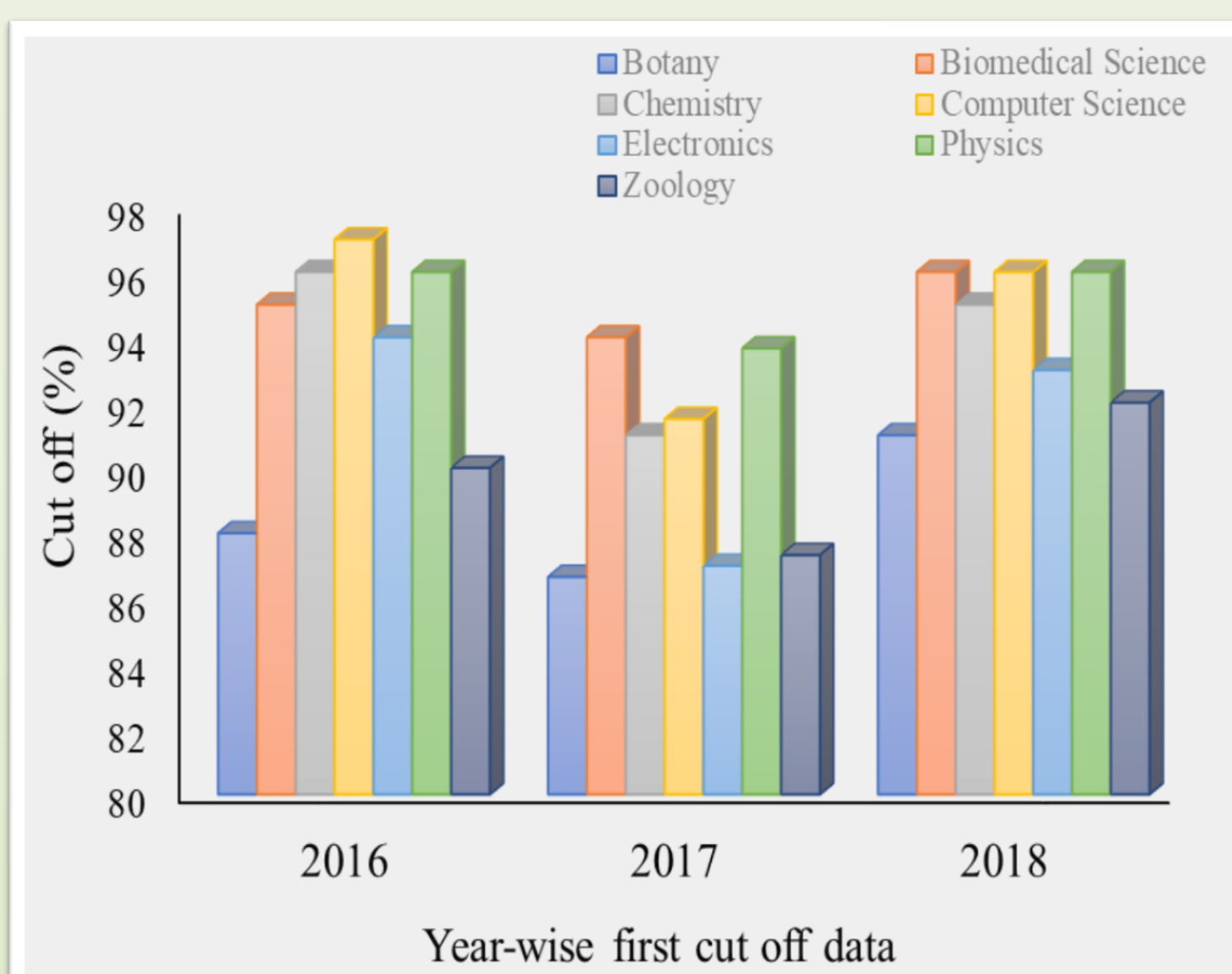
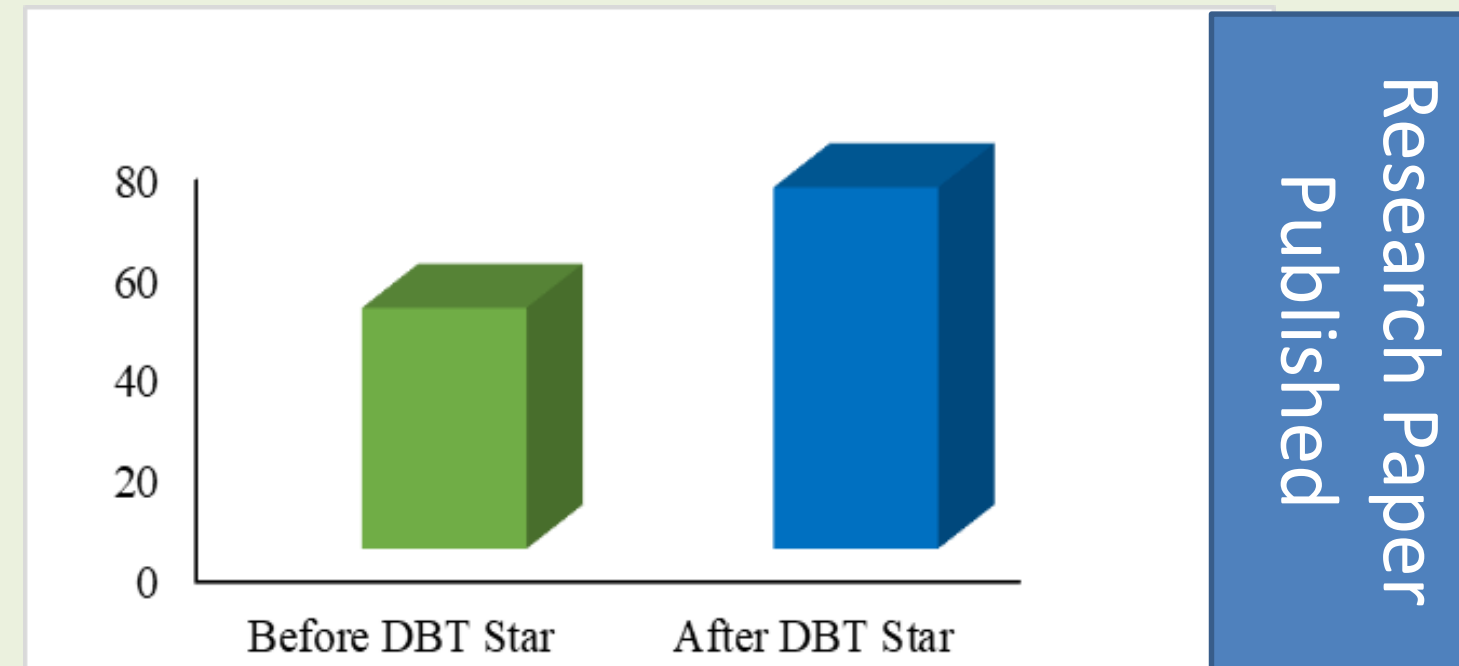
'Quality control (QC) chemist' is a job oriented course started in 2017. This program is aimed at training candidates for the job of a "Quality Control Chemist", in the "Life Sciences" Sector/Industry.

The students complete their course work and do one month internship at various pharmaceutical companies



Impact of DBT STAR

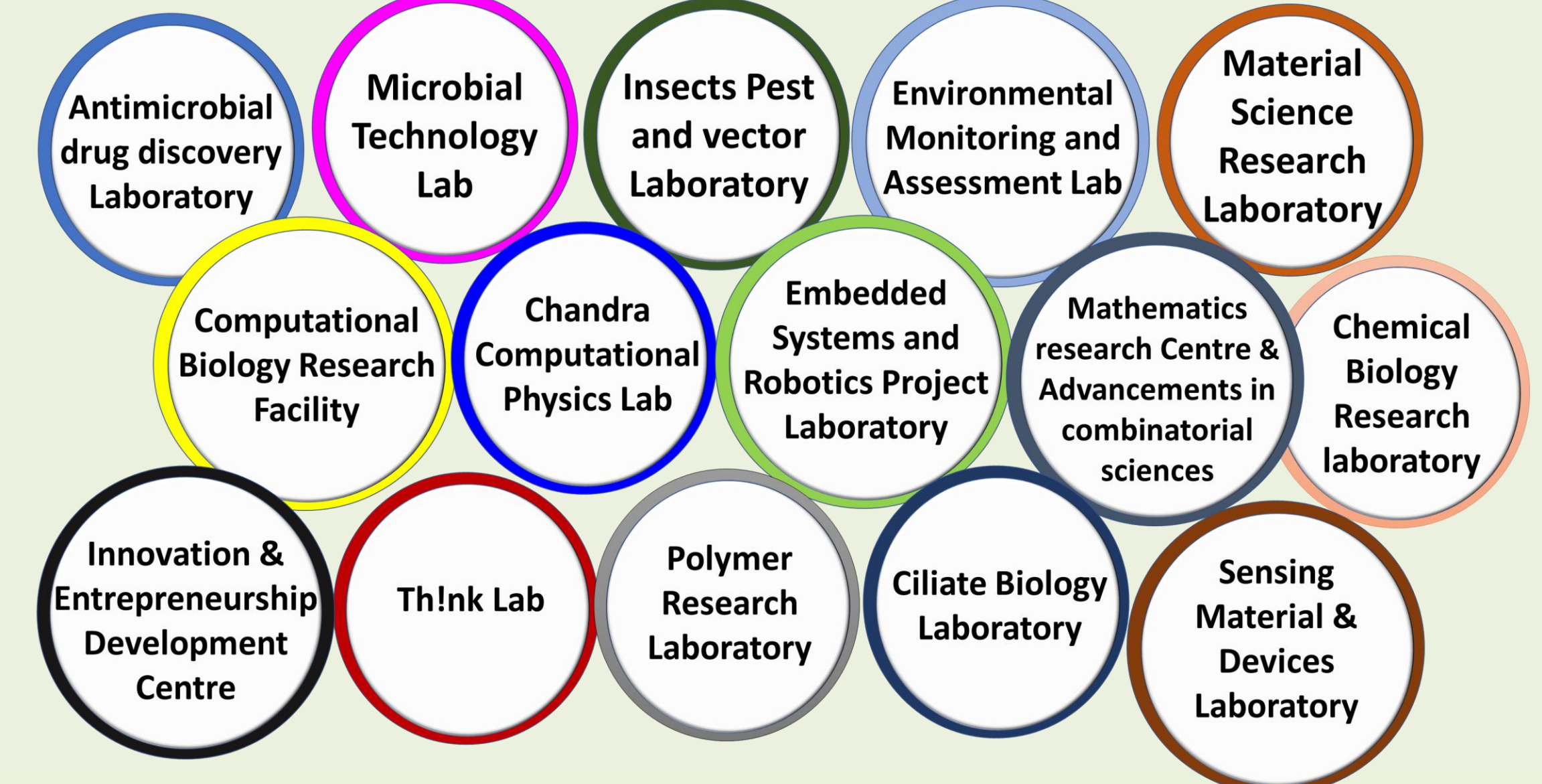
- Improved hands on opportunities enabling students to learn better.
- The grant has helped in creating improved infrastructure in the departments
- Enabled us to conduct more workshops and invited talks.
- The DBT improved teaching-learning process through advanced projects.
- The DBT grant has enabled more interdisciplinary student research projects.
- Increased Participation of UG students in conferences and workshops.
- Promotion and inclination towards science
- Students can take informed decisions about career in science.



Anusandhan Kosh

- Rs. 15 Lakhs per year**
- Maintenance of research facilities
- Research projects submitted by UG students
- Seed money to young faculty
- Academic program for research scholars
- Travel grant for making presentations within country
- Fellowship to enable Ph.D. registration for students without own fellowship

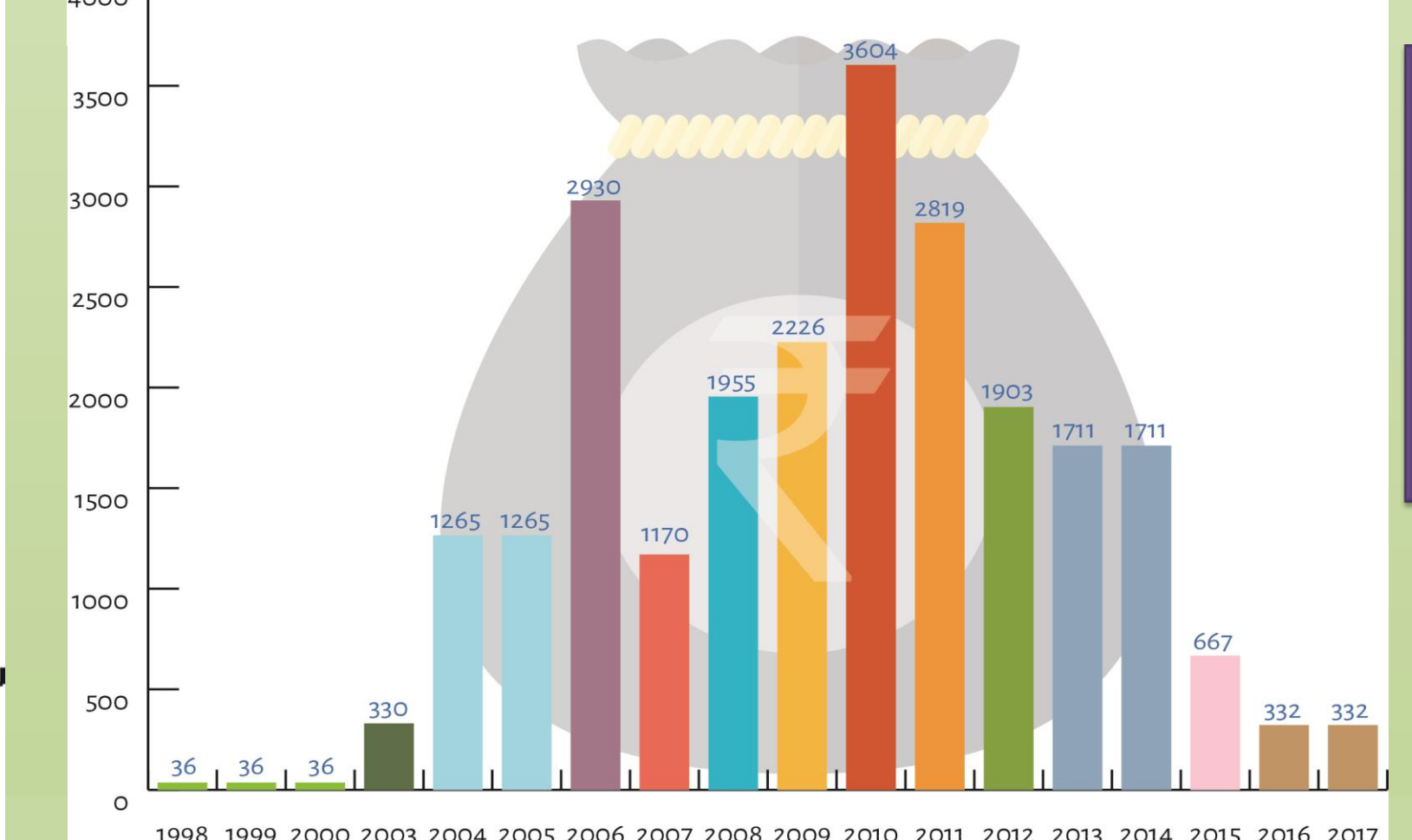
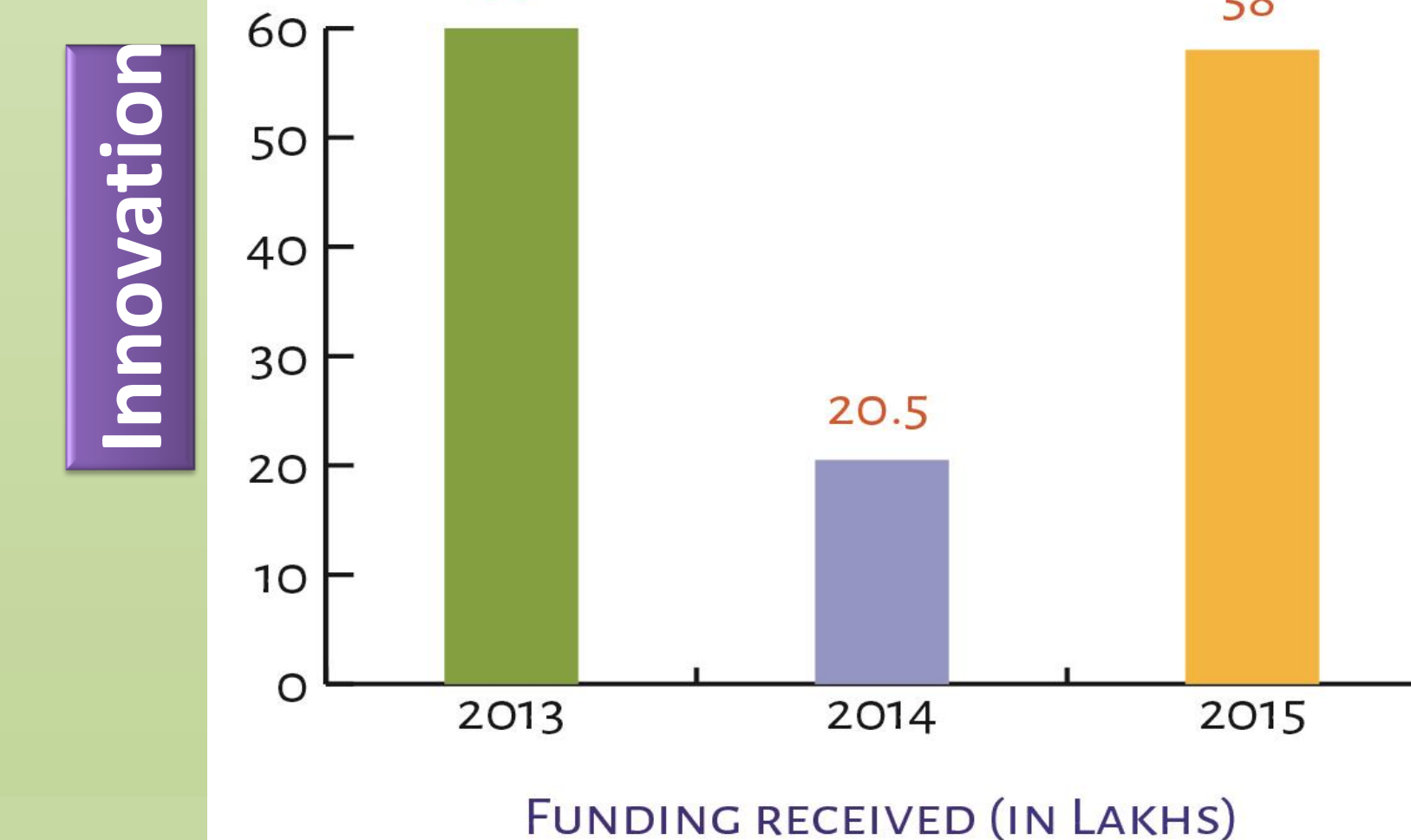
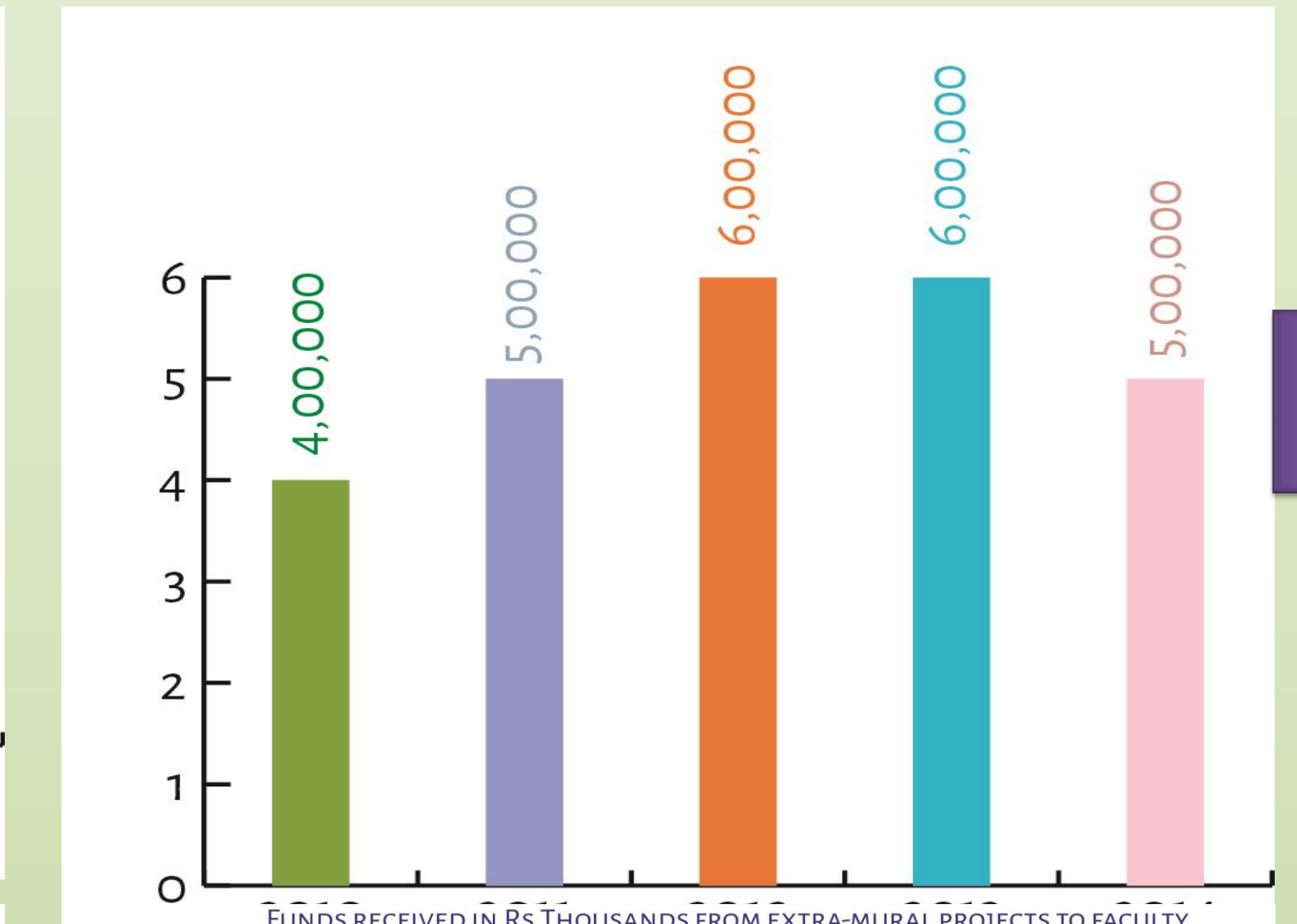
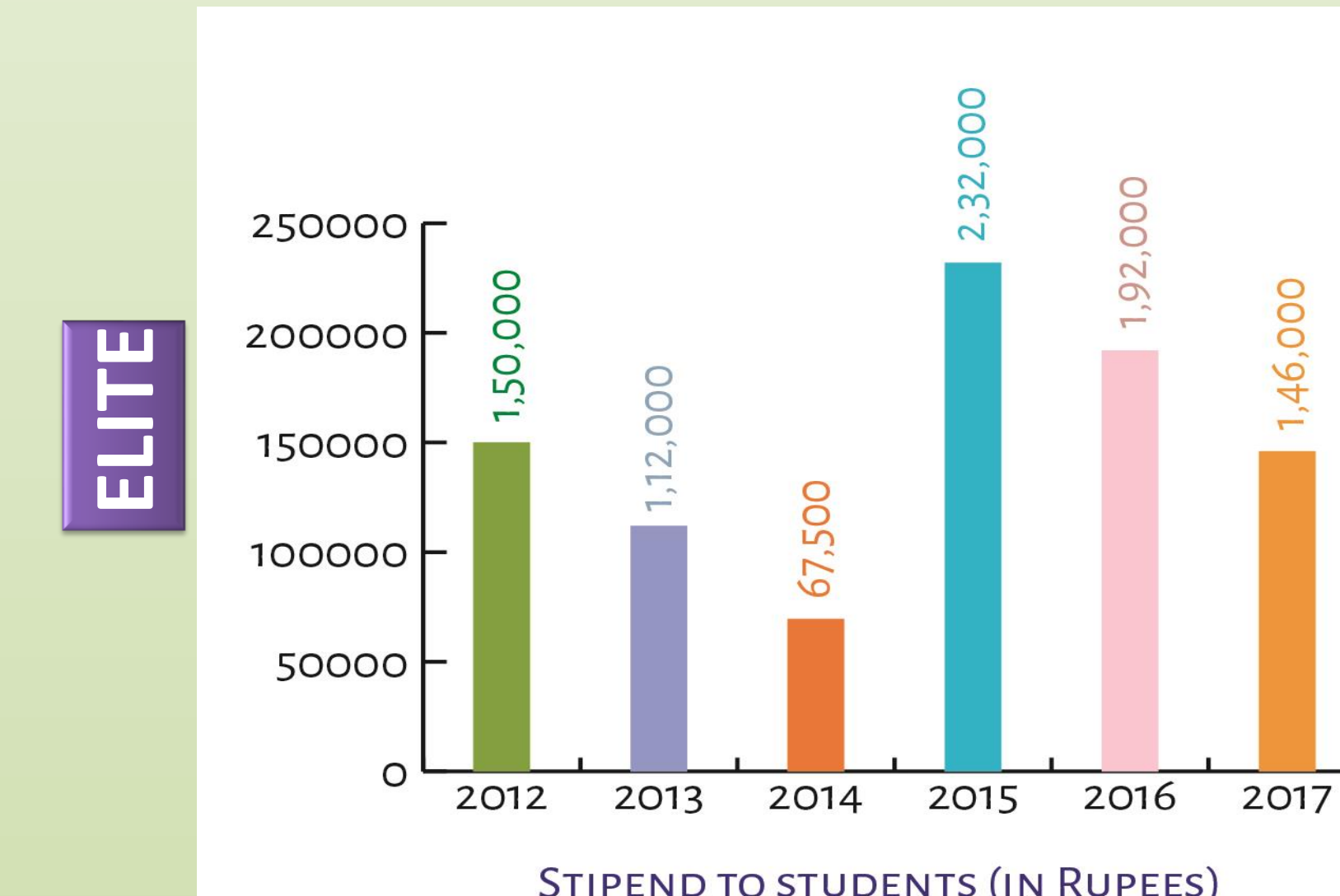
Innovation and Research Labs @ ANDC



Contingency Grant

Rs 15,000 p.a. for Lab Maintenance

EXPENDITURE ON RESEARCH @ ANDC



VISION FOR FUTURE

- To Create an Education & Research oriented hub of eminence in India with International standards
- Proffering Quality Education to our students while emboldening them with diverse exposure and hands-on research
- Students to be prepared with the ideology of "Preparing for the future" by exploring and innovating beyond the classroom.