

A Brief Report on
GSBTM Sponsored Crash Course at C. G. Bhakta Institute of Biotechnology,
Uka Tarsadia University (UTU), Bardoli
(First phase: 10-15th December, 2018)

After conducting series of orientation program in different institutions of south Gujarat region to aware and explain students as well as faculty members about the purpose and intention (i.e. to increase the number of student of Gujarat to secure admission to premier Indian research institute and universities for obtaining the master degree in different areas of bioscience, which will automatically act as starting point for their bright scientific career) of GSBTM behind giving financial support to conduct this unique type of crash course at C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University (UTU), Bardoli. Around 72 student selected for crash course via screening test and few were recommended by faculty members based on their regular academic performance at respective colleges and are advised to register themselves in order to avail this unique opportunity.

The first phase of crash course is successfully conducted between 10-15th December, 2018 and was designed with clear vision of exposing student to most probable academic topics on which questions are expected to be asked in national level competitive exams. The coordinator of the course is Dr. Gopal Jee Gopal along with entire team of CGBIBT have taken every possible steps to provide competitive learning atmosphere to participant during the entire crash course tenure.

Day 1 (10th December, 2018)

Inauguration and Opening remarks

The crash course begins with Dr. Gopal Jee Gopal, convener of the event who welcome all the guests, speakers and participants and in brief tell about need of this crash course. Honorable provost of Uka Tarsadia University (UTU), Bardoli Dr. Dinesh R. Shah bless the inauguration function with his inspirational lecture and infuse the student his words of experience in a very lucid manner. Respected Prof. Krishnamurthy the director of C. G. Bhakta Institute of Biotechnology also share very interesting thoughts on importance of taking higher education in career development



After inauguration function, lectures and presentations on diverse syllabus topics were initiated. Dr. Abhishek Sharma delivered lectures on genetics and chromosomal disorder. Dr. Giftson delivered lecture on Metabolism. Paresh Patel explained in details about chemical bonds. The last session was on amino acid structure and function by Dr. Gopal Jee Gopal.

Day 2(11th December, 2018)

Day 2 was started with Dr. Mukesh Patel who emphasis on some basic mathematical concept and probability as role of mathematics in biology is increasing day by day and there is need to involve mathematics and statistics in biological research in order to get repeatability and universal acceptance. Another lecture on biostatistics was delivered by Dr. Supriya of CGBIBT. Various aspects of basic English is thought in second session as questions are asked on english language in competitive exams (such as essay understanding, grammar etc.). In order to retain interest of student after long hours of academic lectures one motivational lecture was also organized on second day. Dr. Raktim Mukherjee explained in detail various concepts of cell biology. Dr. Jaymin Ray through some lights on topic of Light and Current. The last lecture was taken by Dr. Sri Mishra, Honorable registrar of UTU. Dr. Mishra despite of her busy schedule gave the time to encourage student by sharing her experience and also delivered a talk on concepts of mechanics. Mock test was conducted before relieving the student for dinner.

Day 3(12th December, 2018)

Day 3 was packed with diversity of academic points such as chromatography (Dr. Hemant Borase), Dr. Nishant Singh (Transcription and transaltion), Dr. Gaurav Shah (Techniques in immunology). Dr. Paresh Patel and Dr. Supriya discussed on basics of chemistry and biostatistics respectively. Mock test was conducted at the end of day.

Day 4(13th December, 2018)

Dr. Gopal Jee Gopal, the coordinator of the crash course started day 4 with his topic on recombinant DNA technology. He described in a very simple manner how the development in this field is useful to mankind and several key points of that subject. Dr. Manisha Shah explained very interesting and important topic of immunology that is Ag-Ab interactions and its consequences. Dr. Jay Bergi discuss classical part of molecular biology that is DNA replication in detail. Dr. Manish Soni take this opportunity to present his lectures dealing with enzymes and enzyme kinetics. Finally Dr. Meonis Pithawala made a presentation on microscopy, a very important tool in biological research in a very simple manner and taking care of all scientific concept and terms associated with microscopy, types of microscope etc. Mock test was arranged at the evening.

Day 5(14th December, 2018)

Dr. Bharat Solanki spoke on DNA mutation and repair mechanism. He describes various types of repair mechanisms, enzymes associated with them and other important points. Mr. Kushal Mehta discuss about two very important biomolecules i.e. lipid and carbohydrate with respect to structural and functional aspects. Dr. Gopal Jee Gopal again made refreshment of old concept of students on preparations of solutions. Dr. Satyanarayana Batulla explained in details about spectroscopy, an important and indispensable analytical tool having applications in chemistry, biology and in medicine. Dr. Hiren Patel talk on next generation sequencing.

Day 6(15th December, 2018)

Prof. Rajashekhar Ingalhalli delivered a detail talk on diverse aspects of plant physiology and morphology, an important topic with exam point of view. Dr. Amit Ballani discuss with student on topic of cell signaling. Dr. Niraj Singh delivered talk on Cell Cycle & Check Points & Regulation

On the last session of last day, a visit to different department of Uka Tarsadia University was arranged to gave student glimpses of variety of departments and courses offered in the university campus. Date of Second phase of crash course was also announced on last day i.e, 17-22 January 2019. The valedictory function was happened in auspicious presence of Honorable provost Dr. Dinesh R. Shah, Prof. Krishnamurthy (Director,CGBIBT) and senior faculty members of CGBIBT Dr. Meonis Pithawala, Prof. Rajashekhar Ingalhalli as well as several junior faculty members. Students share their experiences after participating in this crash course





Highlights of Crash Course

1. Around 25 expert faculties from reputed institutions and few from host department (C. G. Bhakta Institute of Biotechnology, UTU) were delivered detail lectures on potent topics (with exam point of view) in order to prepare student in advance for national level competitive exam.
2. Most of the lectures are combination of concept, explanation and multiple choice questions.
3. At the end of each day mock test was conducted.
4. Accommodation, food and tea were arranged at the campus to avoid distraction of students.
5. All the study material is provide to student for future reference purpose.
6. Written feedbacks of students were collected.
7. After end of the talk the speaker was felicitated with certificate of appreciation.

Sr. No.	Name of university/ college	Number of student participated
1	Dept.of Biotechnology, Veer Narmad south Gujarat	7

	University, Surat	
2	Dept. of Biotechnology Shree Ramkrishna Institute of Computer Education and Applied Sciences, Surat.	12
3	Arts, Science and Commerce college Kholwad college, Kholwad	7
4	Government Science College, Vankal	11
5	C. G. Bhakta Institute of Biotechnology, Bardoli	24
6	Naranlala College, Navsari	5
7	B.P. Bariya college	2
8.	Dollyben Desai college, Palsana	4
	Total Participants	72