

# **GSBTM CRASH WORKSHOP**

## **Report**

**2<sup>nd</sup> TO 13<sup>th</sup> January 2023**

**GSBTM CAPACITY BUILDING CELL  
KACHCHH REGION**

**Dr. Ritesh Tandel**

**COORDINATOR, N-BT-CBC-TCAS**

**Tolani College of Arts And Science**

**Venue: AV HALL**

**Timings: 8:00 Am to 8:00 PM**





# Report of GSBTM CRASH WORKSHOP

**2<sup>nd</sup> TO 13<sup>th</sup> January 2023**

**Venue: AV HALL**

**Timings: 8:00 Am to 8:00 PM**

- Network of Biotechnology Capacity Building Cell of (N-BT-CBC) GSBTM and Entrance Exam preparation Cell of Tolani college Of Arts And Science, Adipur organized this six days Crash workshop from 2<sup>nd</sup> January to 13<sup>th</sup> January 2023.
- The aim is prepare the students of Gujarat for National Competitive examinations for postgraduate studies.
- 148 Students from three colleges has participated in this crash workshop.





# OBJECTIVE OF THE WORKSHOP

- ❖ To create world class manpower in Biotechnology & Life sciences.
- ❖ To introduce & motivate the undergraduate student to crack various national level competitive examination.
- ❖ Purpose was to add logical understanding to students make them able to understand that how to approach & solve the question quickly in exam.
- ❖ Introduce the student with essential and critical elements for entrance exam.





# **PARTICIPATING COLLEGES**

- Tolani college of Arts And Science, Adipur
- Shri R.R. Lalan College, Bhuj
- H.J.D. Science College, Adipur
- Shree Sahajanand Girls Institute, Bhuj



# LIST OF RESOURCE PERSONS:

<b>Name of Faculty</b>	<b>Mobile number</b>	<b>Name of College</b>
Dr. Mahesh Thakkar	9879121777	KSKVKACHCHH UNIVERSITY, BHUJ
Dr. Anil Singh	9825574989	Government Science College, Vankal
Dr. Dinesh Kundraiya	9558821551	Tolani College of Arts And Science, Adipur
Dr. Mitesh Patel	9429061541	Tolani College of Arts And Science, Adipur
Dr. Anjali Shrivastav	9662666179	Tolani College of Arts And Science, Adipur
Pro. Mahesh Oza	9426737692	Tolani College of Arts And Science, Adipur
Dr. Anil Singh	9825574989	Government Science College
Dr. Pratik Ambasana	9924234008	Tolani College of Arts And Science, Adipur
Dr. Aparna Singh	7874715668	Tolani College of Arts And Science, Adipur



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<b>Name of Faculty</b>	<b>Mobile number</b>	<b>Name of College</b>
Dr. Anil Singh	9825574989	Government Science College, Vankal
Dr. Rajesh Thakkar	9898467584	Tolani College of Arts And Science, Adipur
Pro. Pankaj Udeshi	9427273266	Tolani College of Arts And Science, Adipur
Ms. Devangi Patel	8849410867	Tolani College of Arts And Science, Adipur
Dr. Haresh Ram	8511110998	Tolani College of Arts And Science, Adipur
Dr. Pranav Pandya	9099952548	R.R. Lalan College, Bhuj
Dr. Bhavesh Dodiya	9624099818	R.R. Lalan College, Bhuj
Dr. Nayan Bhuva	9925693894	R.R. Lalan College, Bhuj
Dr. Darshilt Padia,	9428003922	R.R. Lalan College, Bhuj
Pro. Babulal Vaghela	9714918427	R.R. Lalan College, Bhuj



# LIST OF RESOURCE PERSONS

Name of Faculty	Mobile number	Name of College
DR.RITESH TANDEL	787409709	TOLANI COLLEGE OF ARTS AND SCIENCE, ADIPUR
PRO. ARUN BHINDE	942741127	TOLANI COLLEGE OF ARTS AND SCIENCE, ADIPUR
DR. PAURAV MEHTA	987922601	GOVERNMENT SCIENCE COLLEGE, MANDVI
DR. PUSHPARAJ ZALA	971290465	GOVERNMENT SCIENCE COLLEGE, MANDVI
DR. NIRAJ PANDYA	927630960	TOLANI COLLEGE OF ARTS AND SCIENCE, ADIPUR
DR. GOPAL JEE GOPAL	816024550	UKA TARSADIA UNIVERSITY, BARDOLI
DR. RAJENDRA PRAJAPATI	989839935	M.B.PATEL SCIENCE COLLEGE, ANAND
DR.GOPAL ROAL	942717855	SHRI R.P.ARTS AND KB COMMERCE AND BCJ SCIENCE COLLEGE, KHAMBHAT
DR. GOPAL JEE GOPAL	816024550	UKA TARSADIA UNIVERSITY
DR. RAJENDRA PRAJAPATI	989839935	M.B.PATEL SCIENCE COLLEGE



# LIST OF RESOURCE PERSONS

<b>Name of Faculty</b>	<b>Mobile number</b>	<b>Name of College</b>
<b>Dr. Govind Kher</b>	<b>9723451265</b>	<b>Tolani College of Arts And Science</b>
<b>Dr Joydeep Chakraborty</b>	<b>7226928776</b>	<b>School of Science, Rajkot</b>
<b>Ms. Veda Pandya</b>	<b>9033443088</b>	<b>School of Science, Rajkot</b>
<b>Ms. Yashika Nalla</b>	<b>9979058805</b>	<b>School of Science, Rajkot</b>
<b>Dr. Bhavin Dhaduk</b>	<b>6354188780</b>	<b>School of Science, Rajkot</b>
<b>Dr.Jignesh Kamdar</b>	<b>9033390613</b>	<b>School of Science, Rajkot</b>
<b>Dr. Raktim Mukherjee</b>	<b>9825119355</b>	<b>Shree P. M. Patel Institute of P. G. Studies and Research in Science</b>
<b>Dr. Rizwan Ghumara</b>	<b>9016570893</b>	<b>Tolani College of Arts And Science, Adipur</b>
<b>Dr. Jagadish Raiyani</b>	<b>8511193505</b>	<b>Tolani Commerce college, Adipur</b>
<b>Dr. Niraj Pandya</b>	<b>9276309603</b>	<b>Tolani College of Arts And Science, Adipur</b>
<b>Dr. Rajesh Chuadhari</b>	<b>9998399353</b>	<b>GTU, Ahmedabad</b>



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<b>Name of Faculty</b>	<b>Mobile number</b>	<b>Name of College</b>
Dr. Kaushik Joshi	7990609919	Government Science College, Vadnagar
Dr. Chandrashekar Mootapally	8473836646	GTU, Ahmedabad
Dr.Vipul Audichya	8780501899	Municipal Arts and UrbanBank Science College, Mahesana
Dr. Vivek Gujarati	9712351231	Gazwani institute of Science, Adipur
Dr. Pravin Gupta	6355214074	Atmiya University, Rajkot
Dr. Nutan Prakash	7990589183	Atmiya University, Rajkot
Dr.Vipul Audichya	8780501899	Municipal Arts and UrbanBank Science College, Mahesana
Dr.Ritesh Tandel	7874097097	Tolani College of Arts And Science, Adipur
MS. Kajal Baldaniya	7990789039	Gazwani institute of Science, Adipur
Dr. Archana Upadhaya	9898428586	Tolani College of Arts And Science, Adipur



# PROGRAM SCHEDULE

02-01-2023

08:00 to 9:00 AM Registration and Breakfast

01:30 to 02:00 PM Lunch Break

9:00 to 9:30 AM Inaugural function

02:00 to 05:00 PM Chrometography [Dr. Dinesh Kundariya]

9:30 to 11:30 AM About BT CBC - Rules, Regulation and Importance [Dr. Mahesh Thakkar]

05:00 to 07:00 PM Basic Maths (Calculus) [Dr. Mitesh Patel]

11:30 to 01:30 PM Regulation of Gene expression [Dr. Anil Singh]

05:30 to 06:00 PM

Time	03-01-2023	04-01-2023	05-01-2023	06-01-2023	07-01-2023	08-01-2023	09-01-2023	10-01-2023	11-01-2023	12-01-2023	13-01-2023
8:30 AM - 10:30 AM	Basic of Differential Equation	Microbial Genetics	Evolution in Darwin Theory	Cell Cycle	Chemistry and Mathematics for Biologists	viruses	Plant Physiology, Abiotic	MHC & Autoimmunity,	General Microbiology	Law of Physics	Metrix
	Dr. Anjali Shrivastava	Dr. Anil Singh	Dr. Pranav Pandaya	Dr. Ritesh Tandel	Dr. Gopal jee Gopal	Dr. Rajendra Prajapati	Dr. Joydeep Chakraborty	Dr. Raktim Mukherjee	Dr. Rajesh Chaudhari	Dr. Vivek Gujarati	Dr. Kajal Baldaniya
10:30 AM - 12:30 PM	Basic Maths (Probability)	Basic Maths (Probability)	Evolution of Earth	Electromagnetism	How to Work out For Life sciences	Growth Kinetics	Physical & chemical properties of compounds	Hyper sensitivity	IR spectroscopy Application	Protein Biochemistry	Introduction to eukaryotic cell and its organelles
	Pro. Mahesh Oza	Dr. Rajesh Takker	Pro. Padia	Pro. Arun Bhide	Dr. Rajendra Prajapati	Dr. Gopal Raol	Dr. Bhavin Dhaduk	Dr. Raktim Mukherjee	Dr. Kaushik Joshi	Dr. Praveen Gupta	Dr. Archana Upadhyaya
12:30 PM - 1:00 PM	L	U	N	C	H	B	R	E	A	K	A



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Time	03-01-2023	04-01-2023	05-01-2023	06-01-2023	07-01-2023	08-01-2023	09-01-2023	10-01-2023	11-01-2023	12-01-2023	13-01-2023
1:00 PM - 3:00 PM	<b>DNA damage on Bacteria</b>	<b>Basic Physics</b>	<b>General Organic Chemistry</b>	<b>Ecology</b>	<b>Gel Electrophoresis</b>	<b>Blotting</b>	<b>Mapping gene on Chromosomes on linkage analysis &amp; Adv in PB</b>	<b>Electrochemistry</b>	<b>PCR Techniques and Application</b>	<b>Bioinformatics</b>	<b>Valedictory function</b>
	Dr. Anil Singh	Pro. Pankaj Udeshi	Dr. Nayan Bhuvra	Dr. Paurav Mehta	Gopal jee Gopal	Gopal jee Gopal	Dr. Jignesh Kamdar	Dr. Rizwan Ghumara	Dr. Chandrashekar Mootapally	Dr. Nutan Prakash Vishwakarma	
3:00 PM - 5:00 PM	<b>Acid Base Buffer</b>	<b>Metabolisms</b>	<b>Evolution of life</b>	<b>Chemical Kinetics &amp; VSEPR in Chemical Bonding for chemistry</b>	<b>Enzyme Kinetics and Regulation</b>	<b>Glycolysis and TCA cycle</b>	<b>Cell Biology</b>	<b>Biostatistics</b>	<b>PCR Techniques and Application</b>	<b>Determining Organic Structure</b>	
	Dr. Pratik Ambasana	Ms. Devangi Patel	Dr. Babulal	Dr. Pushparaj Zala	Dr. Gopal Raol	Dr. Gopal Raol	Ms. Veda Pandya	Dr. Jagadish Raiyani	Dr. Chandrashekar Mootapally	Dr. Vipul Audichya	
5:00 PM - 6:30 PM	<b>Cancer</b>	<b>Stereo Chemistry</b>	<b>IR spectroscopy</b>	<b>Spectroscopy</b>	<b>Mendelian Genetics</b>	<b>Colorimetry &amp; spectrophotometer</b>	<b>Nutritional Diversity</b>	<b>Semiconductor Devices</b>	<b>Miosis</b>	<b>Mass Spectroscopy</b>	
	Dr. Aparna Singh	Dr. Haresh Ram	Dr. Bhavesh Dodiya	Dr. Govind Kher	Dr. Rajendra Prajapati	Dr. Govind Kher	Ms. Yashika Nalla	Dr. Niraj Pandya	Dr. Ritesh Tandel	Dr. Kaushik Joshi	
06:30 PM Onwards	<b>Mock Test</b>	<b>Mock Test</b>	<b>Mock Test</b>	<b>Mock Test</b>	<b>Mock Test</b>	<b>Mock Test</b>	<b>Mock Test</b>	<b>Mock Test</b>	<b>Mock Test</b>	<b>Mock Test</b>	

DINNER



# INAUGURAL SESSION: DATED ON

## 02/01/2023

### Inauguration By



**Dr. Mahesh Thakkar**  
HOD Earth and Environment  
Department  
KSKV kachchh University, Bhuj



**Pro. Laxman Daryani**  
Honorable Director  
GCB, Adipur



# SESSION: 1ST DAY DATED ON 02/01/2023



**About Competitive Exam**  
**Dr. Mahesh Thakkar**



**Regulation of Gene expression**  
**[Dr. Anil Singh]**



# SESSION: 1ST DAY DATED ON 02/01/2023



**Chromatography**  
**[Dr. Dinesh Kundariya]**



**Basic Math's (Calculus)**  
**[Dr. Mitesh Patel]**





The image is a collage of four panels. The top-left panel is a decorative graphic featuring a grid of hexagons and circles in various colors (green, yellow, red, blue) on a light background. The top-right panel is a title slide with the text "SESSION: 2ND DAY DATED ON 03/01/2023" in a large, bold, black serif font. The bottom-left panel shows a woman, Dr. Anjali Shrivastava, standing in a lecture hall. She is wearing a red jacket and a patterned skirt, holding a microphone. Behind her is a large projector screen displaying text about differential equations and a whiteboard with a graph. The bottom-right panel shows a man, Dr. Mahesh Ozha, standing in a lecture hall. He is wearing a dark jacket and glasses. Behind him is a whiteboard with mathematical derivations for wave optics, including formulas for wave number, wavelength, and refractive index.



# SESSION: 2<sup>ND</sup> DAY DATED ON 03/01/2023



**DNA damage on Bacteria**  
**[Dr. Anil Singh]**



**Acid Base Buffer**  
**[Dr. Pratik Ambasana]**



# SESSION: 2<sup>ND</sup> & 3<sup>RD</sup> DAY DATED ON 03/01/2023 & 04/01/2023



**Cancer**  
**[Dr. Aparna Singh]**



**Microbial Genetics**  
**[Dr. Anil Singh]**



# SESSION:3<sup>RD</sup> DAY DATED ON 04/01/2023



**Basic Maths (Probability)**  
**[Dr. Rajesh Thakkar]**



**Basic Physics**  
**[Pro. Pankaj Udeshi]**



# SESSION: 3<sup>RD</sup> DAY DATED ON 04/01/2023



**Metabolism**  
**[Ms. Devangi Patel]**



**Stereo Chemistry**  
**[Dr. Haresh Ram]**



# SESSION:4<sup>TH</sup> DAY DATED ON 05/01/2023



**Evolution in Darwin Theory**  
**[Dr. Pranav Pandya]**



**Evolution of Earth**  
**[Pro. Darshit Padia ]**



# SESSION: 4<sup>TH</sup> DAY DATED ON 05/01/2023



**General Organic Chemistry**  
[Dr. Nayan Bhuva]



**Evolution of life**  
[Dr. Babulal Veghela]



# SESSION: 4<sup>TH</sup> AND 5<sup>TH</sup> DAY DATED ON 05/01/2023 & 06/01/2023



**IR spectroscopy**  
**[Dr. Bhavesh Dodiya]**



**Cell Cycle**  
**[Dr. Ritesh Tandel]**



# SESSION: 5<sup>TH</sup> DAY DATED ON 06/01/2023



**Electromagnetism**  
**[Pro. Arun Bhinde]**



**Ecology**  
**[Dr. Paurav Mehta]**



# SESSION:5<sup>TH</sup> DAY DATED ON 06/01/2023



**Chemical Kinetics & VSEPR in  
Chemical Bonding for chemistry**  
[Pro. Pushparaj Zala]

**Spectroscopy**  
[Dr. Govind Kher]



# SESSION:6<sup>TH</sup> DAY DATED ON 07/01/2023



**Chemistry and Mathematics for  
Biologists & Gel Electrophoresis  
[Dr. Gopal Jee Gopal]**



**How to Work out For Life  
sciences & Madelina Genetics  
[Dr. Rajendra Prajapati]**



# SESSION:6<sup>TH</sup> & 7<sup>TH</sup> DAY DATED ON 07/01/2023 & 08/01/2023



**Enzyme Kinetics and  
Regulation  
[Dr. Gopal Raol]**



**viruses  
[Dr. Rajendra Prajapati]**



# SESSION: 7<sup>TH</sup> DAY DATED ON 08/01/2023



**Growth Kinetics & Glycolysis  
and TCA cycle  
[Dr. Gopal Raol]**



**Blotting  
[Dr. Gopal Jee Gopal]**



# SESSION: 8<sup>TH</sup> DAY DATED ON 09/01/2023



**Cell Biology**  
**[Ms. Veda Pandya]**



**Nutritional Diversity**  
**[Ms. Yashika Nalla]**



# SESSION: 8<sup>TH</sup> DAY DATED ON 09/01/2023



**DNA Cloning, Plasmid Vector**  
**[Dr Joydeep Chakraborty]**



**Physical & chemical  
properties of compounds**  
**[Dr. Bhavin Dhaduk]**



# SESSION: 8<sup>TH</sup> & 9<sup>TH</sup> DAY DATED ON 09/01/2023 & 10/01/2023



**Mapping gene on Chromosomes on linkage analysis & Adv in PB**  
[Dr. Jignesh Kamdar]



**MHC & Autoimmunity, Hyper sensitivity**  
[Dr. Raktim Mukherjee]



# SESSION: 9<sup>TH</sup> DAY DATED ON 10/01/2023



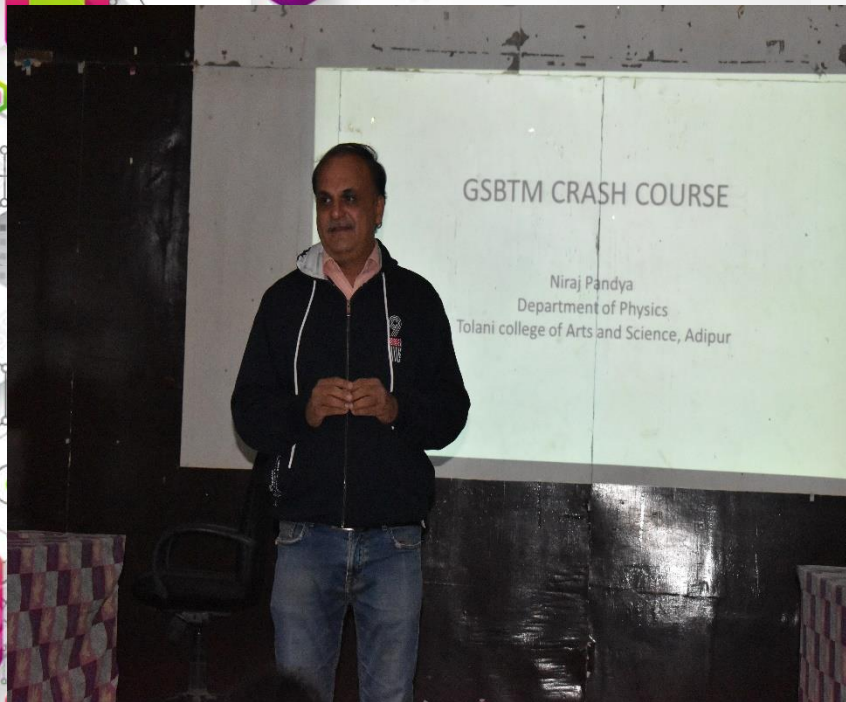
**Electrochemistry**  
**[Dr. Rizwan Ghumara]**



**Biostatistics**  
**[Dr. Jagdish Raiyani]**



# SESSION: 9<sup>TH</sup> & 10<sup>TH</sup> DAY DATED ON 10/01/2023 & 11/01/2023



**Semiconductor Devices**  
**[Dr. Niraj Pandya]**



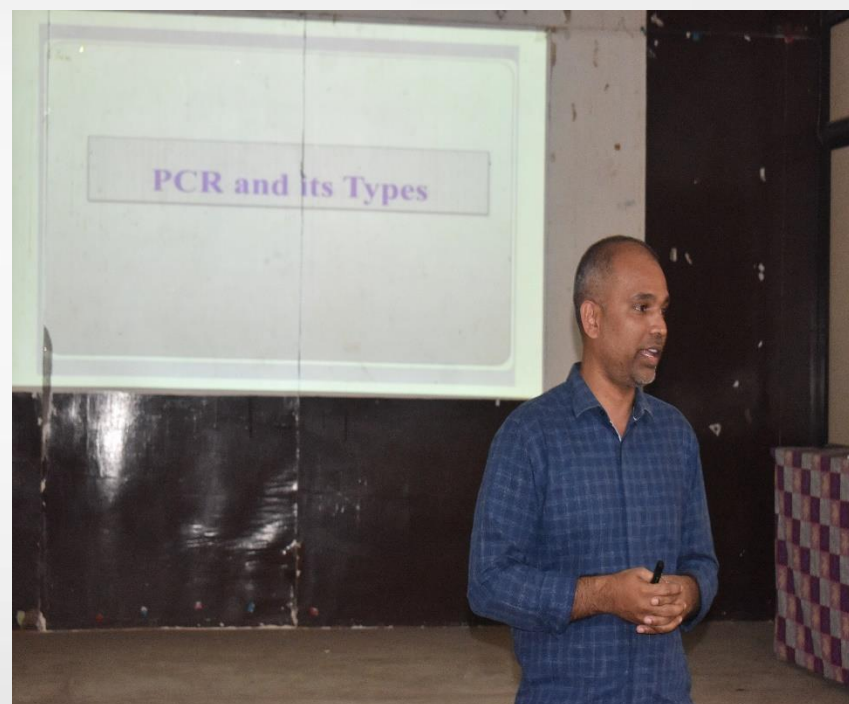
**General Microbiology**  
**[Dr. Rajesh Chaudhari]**



# SESSION: 10<sup>TH</sup> DAY DATED ON 11/01/2023



**IR spectroscopy Application [Dr. Kaushik Joshi]**



**PCR Techniques and Application [Dr. Chandrashekar Mootapally]**



# SESSION: 10<sup>TH</sup> & 11<sup>TH</sup> DAY DATED ON 11/01/2023 & 12/01/2023



**Miosis**  
**[Dr. Ritesh Tandel]**



**Law of Physics**  
**[Dr. Vivek Gujarati]**



# SESSION: 11<sup>TH</sup> DAY DATED ON 12/01/2023



**Protein Biochemistry**  
**[Dr. Praveen Gupta]**



**Bioinformatics**  
**[Dr. Nutan Prakash Vishwakarma]**



# SESSION: 11<sup>TH</sup> DAY DATED ON 12/01/2023



**Determining Organic Structure**  
**[Dr. Vipul Audichya]**



# SESSION: 12<sup>TH</sup> DAY DATED ON 13/01/2023



**Fermentation**  
**[Dr. Archana Upadhyay]**



**Metrix**  
**[Ms. Kajal Baldaniya]**



# VALEDICTORY SESSION: 12<sup>TH</sup> DAY

## DATED ON 13/01/2019





# VALEDICTORY SESSION: 12<sup>TH</sup> DAY

## DATED ON 13/01/2019





# VALEDICTORY SESSION: 12<sup>TH</sup> DAY

## DATED ON 13/01/2019





# VALEDICTORY SESSION: 12<sup>TH</sup> DAY

## DATED ON 13/01/2019

