

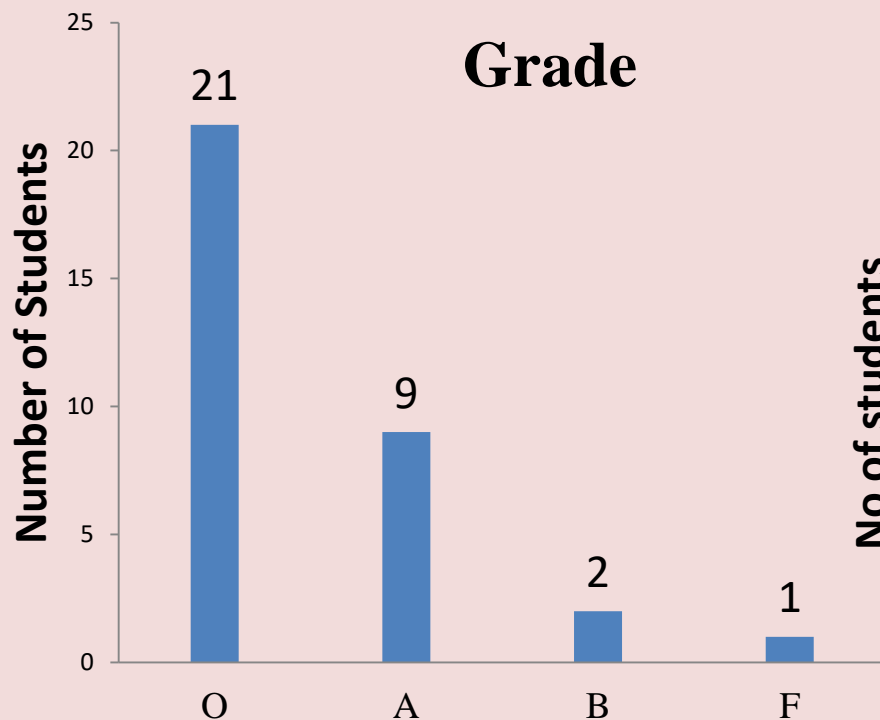
**Welcome to**  
**DEPARTMENT OF**  
**BIOTECHNOLOGY**

<b>Sr.No.</b>	<b>Details</b>
<b>Dept Name</b>	BIOTECHNOLOGY
<b>Dept Coordinator</b>	DR. SEJAL RATHOD
<b>Faculty Members</b>	Ms. Anushi Divan Ms. Sufiya Ansari Ms. Hajra AS Gupta Ms. Richa Shah
<b>Non Teaching Staff</b>	Mr. Santosh Mr. Swapnil Mr. Narendra

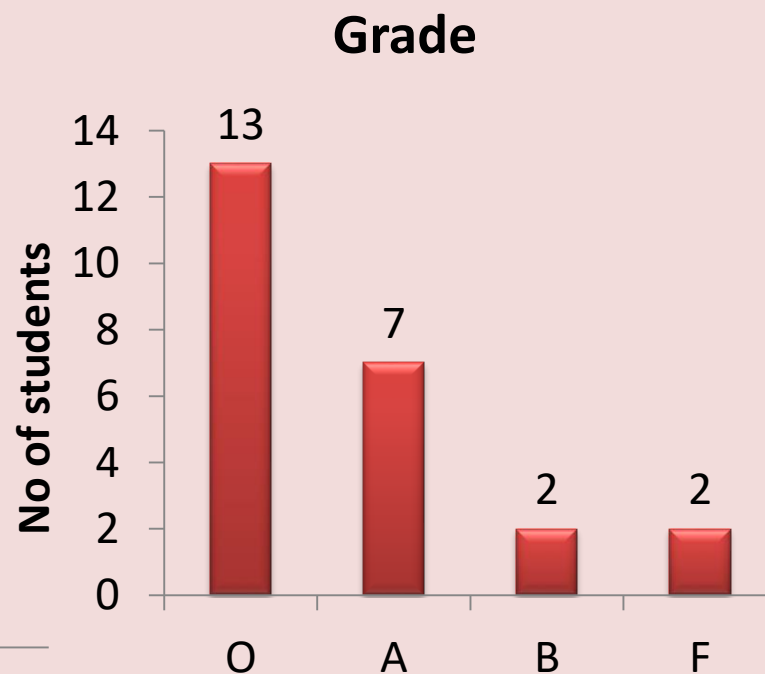
<b>Class (2017-2018)</b>	<b>Strength of Students</b>
<b>1) F.Y.B.Sc.</b>	<b>36</b>
<b>2) S.Y.B.Sc.</b>	<b>34</b>
<b>3) T.Y.B.Sc.</b>	<b>24</b>

# T.Y. Results

T.Y. Results Semester VI  
(2017)



T.Y. Results Semester V (2017)



**MicrobiOlympiad- TYBSc students secured 10<sup>th</sup> Rank in State level  
MicrobiOlympiad held on 09<sup>th</sup> January 2018**

# ACTIVITIES OF THE DEPARTMENT, 2017-2018

**MicrobiOlympiad- TYBSc students secured 10<sup>th</sup> Rank in State level  
MicrobiOlympiad held on 09<sup>th</sup> January 2018**

- Department under star college scheme (2<sup>nd</sup> year)-  
Total 44 Activities
- Parents teachers meet
- Student nurturing program (SNP)
- Industrial Visits
- Seminars
- Training for teaching staff
- Open day



**Activities conducted under Star DBT scheme  
Biotechnology Department**

1	Student's Activity	06
2	Hands on Training Practical	12
3	Projects	16
5	Teachers Activity	01
6	Outreach activity	02
7	Seminar	02
8	Field Visits	05
	<b>Total</b>	<b>44</b>

Details of the Activities  
and Hands on Training  
Practical

# Details of the Activities

<b>Sr.No</b>	<b>Name of the Activity</b>	<b>Resource person</b>	<b>No of Beneficiaries</b>
1	<b>Movie screening: Ek Doctor Ki Maut</b>	Ms. Anushi Divan and Ms. Sharon K	50
2	<b>BIOLEGACY-2017</b>	Ms. Anushi Divan and Ms. Nandini D	50
3	<b>Journal club</b>	Ms. Anushi Divan	20

# Details of the Activities

Sr.No	Name of the Activity	Resource person	No of Beneficiaries
4	<b>Sci-Tech Screening-A collection of TEDx talks on Biotechnology and its applied sciences</b>	Ms. Nandini Desai	36
5	<b>Debate competition between FYBSc and TYBSc Biotechnology students</b>	Dr. Kruti Pandya	87
6	<b>Inspirus 2018</b>	Mrs. Prabha Padmanabha	73

# Details of Hands on Training Practical

<b>Sr.No</b>	<b>Name of the Experiment</b>	<b>Resource person</b>	<b>No of Beneficiaries</b>
1	<b>Sugar and salt tolerance of S. aureus and E. coli</b>	Ms. Amina Dholkawala	34
2	<b>Inhibitory and microbicidal effect of dyes</b>	Ms. Amina Dholkawala	34
3	<b>Effect of different hand cleansing agents on normal skin flora</b>	Ms. Anushi Divan and Ms. Nandini D	20
4	<b>Extraction and estimation of Lycopene using liquid-liquid extraction</b>	Ms Janhavi Sawant	20

# Details of Hands on Training Practical

Sr.No	Name of the Activity	Resource person	No of Beneficiaries
5	<b>Hands-on preparation of Winogradsky's column</b>	Ms. Sharon K and Ms Amina Dholkawala	34
6	<b>Staining of metachromatic granules of different spore-bearing microorganisms</b>	Ms. Sufiya Ansari and Ms. Amina Dholkawala	34
7	<b>Comparative study of Wine making by standard yeast culture and normal grape flora</b>	Ms. Sufiya Ansari	20

# Details of Hands on Training Practical

<b>Sr.No</b>	<b>Name of the Activity</b>	<b>Resource person</b>	<b>No of Beneficiaries</b>
8	<b>Model construction for cheaper alternatives of water purification</b>	Ms. Anushi Divan	36
9	<b>Analysis of drinking water around Mumbai railway stations</b>	Ms.Sufiya Ansari	34
10	<b>Performing Serum electrophoresis</b>	Ms. Hajra Gupta	24

# Details of Hands on Training Practical

<b>Sr.No</b>	<b>Name of the Activity</b>	<b>Resource person</b>	<b>No of Beneficiaries</b>
11	<b>To study SLO and SLS activity of S.pyogenes</b>	Ms. Sufiya Ansari and Ms. Richa Shah	46
12	<b>Antibacterial activity of biologically and chemically synthesized nanoparticles</b>	Ms. Sufiya Ansari	22

# Activities conducted under Star DBT scheme



Inexpensive model for water purification



Debate between FYBSc and TYBSc



Normal flora      With yeast  
Wine Making



SLO and SLS activity

# **Projects Under DBT Star Scheme**

No.	Title of the Project	Beneficiaries	Mentor
1	<b>Study of oral microflora &amp; quantification of salivary biomarkers in smokeless tobacco consumers</b>	Ajay Narayan Manali Kadu Pranita Rane (3)	Dr. Anupma Harshal
2	<b>Extraction of natural dyes and their application</b>	Bushra Khan Ramya Sindhyan (2)	Dr. Sejal Rathod Anushi Divan
3	<b>Antimicrobial and Enzymatic activity of endophytic fungi isolated from leaves of <i>Avicennia marina</i> and characterization of mangrooves soil</b>	Prachi Pawar Saloni Samant (2)	Dr. Pratibha Shah Nandini Desai
4	<b>To study the phytochemical profile of different plants belonging to Malvaceae family</b>	Samta Verra Dhanashri Bothre (2)	Dr. Sagarika Damle Sharon K.
5	<b>Predisposition of ADHD (Attention Deficit Hyperactivity Disorder) in secondary school children</b>	Samrin Shaikh Mayuri Iyer (2)	Dr. Sejal Rathod Anushi Divan

No.	Title of the Project	Beneficiaries	Mentor
6	<b>Detection and Isolation of <i>S.aureus</i> from meat samples in Mumbai and carrying out MRSA strain tests</b>	Janav Panchal (1)	Ms. Amina Dholkawala Dr. Sejal Rathod
7	<b>Isolation, purification and characterisation of siderophores</b>	Sarrah Rampurawala Neeti Kothari Sushma Jakhad (3)	Dr. Pratibha Shah Ms. Hajra Gupta
8	<b>Production od Lactiv Acid by means of fermentation of Cowpea leaves</b>	Shubhankar Dube (1)	Dr. Pratibha Shah Ms. Hajra Gupta
9	<b>Keratinase production in <i>B.subtilus</i> and efficiency of enzyme</b>	Samrudhi Pingle (1)	Dr. Sejal Rathod Ms. Amina Dholkawala
10.	<b>Formulation of natural protein powder</b>	Namrata Saraf Gaurav Kudale (2)	Ms. Anushi Divan
11	<b>Study of Biofims</b>	Anjaly Tankaria Dhwani Sanklecha Andrea Pinto Holden Tuscano Ashlesha Pandey (5)	Ms. Anushi Divan
12	<b>Isolation of Cellulose producing bacteria from rotten orange and grapes</b>	Ayesha Zaoudarwala Sanjana Sawant (2)	Ms. Anushi Divan

No.	Title of the Project	Beneficiaries	Mentor
13	<b>Antiangiogenic activity of secondary metabolites from plant seeds</b>	Riya Chheda Benhur D'souza Anuja Mistry Piroza Master Riya Dubey (5)	Ms. Sufiya Ansari
14	<b>Isolation of bacteriophage from sewage samples</b>	Divya Goswami Shalini Singh Monal Mehta Umesh Pandey Shivam Bhist (5)	Ms. Sufiya Ansari
15	<b>Degradation and detoxification of azo dyes</b>	Sakina Lokhandwala Sakshi Shinde Himanshu Pandey Sejal Jain (4)	Ms. Sufiya Ansari
16	<b>Production of bio-ethanol from newspaper</b>	Rekha Chataule Riya Debnath Aranta Dongre Anuj Singh Juveria (5)	Dr. Sejal Rathod

# Training for Teaching staff

<b>Topic</b>	<b>Resource person</b>	<b>Type of beneficiaries</b>	<b>No of Beneficiaries</b>
HPTLC Workshop, Anchrom (Mulund)	Saikat Mallik, Anchrom	Teaching staff of Departments of Microbiology, Biotechnology, Chemistry, Life Sciences and other colleges	30

# Guest Lectures/Seminars

Sr No	Title	Resource person	Teacher Incharge	No of beneficiaries
1	<b>Seminar on Advanced Microbial Technology For Environmental Biotechnology</b>	Dr. Ganesh Kamath, Organica Biotech	Ms. Amina D.	FYBSc, SYBSc, TYBSc Biotechnology and SYBSc Microbiology <b>80</b>
2	<b>Seminar on Bioterrorism</b>	Lt. Jaydev	Ms. Nandini Desai	FYBSc, SYBSc, TYBSc <b>(84)</b>

# Guest Lectures/Seminars/ Training



Talk on Bioterrorism



HPTLC workshop for teachers, Anchrom

# Outreach Activity

Sr. No.	Event	Resource Person	Date	Number of Beneficiaries
1	<b>Biotechnology Open Day</b>	Ms Anushi Divan	16 <sup>th</sup> January, 2018	63  <b>(Prabhavati Padamshi Soni International Junior College, Juhu, Ville Parle (W), Mumbai and inhouse BSc. Students)</b>
2	<b>Seminar on ADHD for school students</b>	Ms. Veena Kumari	12 <sup>th</sup> February, 2018	60

# Outreach Activity-Biotechnology Open Day



# Best Activity- Inspirus 2018



Prize	College	Title of the idea
1 <sup>st</sup>	KC College	Neurons as Biosensors
2 <sup>nd</sup>	Elphinstone College	Bactinash-2.0
3 <sup>rd</sup>	KC College	Regrowing Morality



**Total Number of Beneficiaries= 73**

# RESEARCH PUBLICATIONS-Students

- 1) **Anjali Mer**, “Charcterisation of Commercial detergents and natural cleansing agents with comparison of their potential for biodegradability”, IJAC, 2017.
- 2) **Krishna Desai, Jayshree Sonagra**, “Qualitative analysis of various adulterants and microbes in milk samples collected from different areas of Mumbai”, IJIRSET, 2017
- 3) **Rutuja Wadavlikar**, “Prevalence of PCOS amongst women in Mumbai and association of the symptoms with workhours”, IJIRSET, 2017
- 4) **Shreshta Shah**, “Study of total phenol flavonoids content and phytochemical screening of methanolic crude extracts of two weed plants”, ANNALS of Plant Sciences, 2017
- 5) **Rohit Halder, Shaba P**, “Factors Associated with Consumption of Alcohol and Hookah Smoking Among the Youth of Mumbai, A Cohort Study” International Journal of Innovative Research in Science, Engineering and Technology, 2017

# RESEARCH PUBLICATIONS-Teachers

- 1) **Anushi Divan-** Study of total phenol, flavonoid contents and phytochemical screening of methanolic crude extracts of two weed plants- *Annals of Plant Science*. 2287-688X.
- 2) **Anushi Divan-** Allelopathic Potential and HPTLC Analysis of *Ipomoea carnea*- *International Journal of Life. Science and Scientific Research*, 3 (5), 1278-1282.
- 3) **Anushi Divan-** Factors Associated with Consumption of Alcohol and Hookah Smoking Among the Youth of Mumbai, A Cohort Study- *International Journal of Innovative Research in Science, Engineering and Technology*, 6(12)

# Planned Activities for 2018-19

Date	Activity
June, 2018	Parents teachers meet
July, 2018	Seminar on healthy lifestyle for the teaching and non teaching staff
July, 2018	Training for students on PCR
Aug, 2018	Workshop on Western Blotting
Oct/Nov, 2018	Industrial visit to Pastonji and CETP
Dec, 2018	Seminar on Assisted Reproductive technology
Dec, 2018	Inspirus' 19
Jan, 2019	KC Biotechnology open day

THANK-YOU