



**KISHINCHAND CHELLARAM COLLEGE
CHURCHGATE, MUMBAI 400020**

**DBT STAR STATUS
ANNUAL REPORT - ANNEXURES**

Period: June 2019 - March 2020

DEPARTMENTS

Biotechnology

Chemistry

Life Sciences

Microbiology

Statistics

SUPPORTING ANNEXURES FOR STAR STATUS REPORT 2019 – 2020
KISHINCHAND CHELLARAM COLLEGE, MUMBAI

APPENDIX FOR ANNEXURE

- A) RESEARCH PROJECTS
- B) HANDS – ON EXPERIMENTS
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- D) TRAINING RECEIVED BY FACULTY
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- N) ANY OTHER SUPPORTING DOCUMENT

DEPARTMENT OF BIOTECHNOLOGY**A) RESEARCH PROJECTS**

Projects 2018 - 2019: Completed (12)			
Sr No	Students	Title of the project	Mentor Teacher
1	Janav Panchal T.Y.B.Sc (1)	Comparison of culture independent and culture dependent techniques to enumerate the number of microorganisms from water sample in Mumbai	Ms. Amina Dholkawala Dr. Sejal Rathod
2	Sarrah Rampurawala Neeti Kothari Sushma Jakhad T.Y.B.Sc (3)	Isolation of siderophores producing organism from soil and optimization of siderophore detecting media	Dr. Pratibha Shah Ms. Hajra Gupta
3	Shubhankar Dube T.Y.B.Sc (1)	Study of the possibility and success of Lactic acid fermentation from Cowpea leaves as an alternative substrate	Dr. Pratibha Shah Ms. Hajra Gupta
4	Samrudhi Pingle T.Y.B.Sc (1)	Keratinase production in <i>B.subtilis</i> and efficiency of enzyme	Dr. Sejal Rathod Ms. Amina Dholkawala
5	Namrata Saraf Gaurav Kudale T.Y.B.Sc (2)	Formulation of natural protein powder from Indian sprouts and pulses	Ms. Hajra AS Gupta
6	Anjaly Tankaria Dhwani Sanklecha Andrea Pinto Holden Tuscano Ashlesha Pandey T.Y.B.Sc (5)	Extraction, purification and evaluation of colored pigments from soil <i>actinomycetes</i> for their use as coloring agents	Ms. Hajra AS Gupta
7	Ayesha Zaouardwala Sanjana Sawant T.Y.B.Sc (2)	Isolation of Cellulose producing bacteria from rotten orange and grapes	Ms. Hajra AS Gupta Ms. Sufiya Ansari
8	Riya Chheda Benhur D'souza Umesh Pandey T.Y.B.Sc (3)	Isolation of pesticide degraders	Ms. Sufiya Ansari
9	Anuja Mistry Piroza Master Riya Dubey T.Y.B.Sc (3)	Production of Bioplastics from micro-organisms	Ms. Sufiya Ansari
10	Divya Goswami Shalini Singh Monal Mehta Shivam Bhist T.Y.B.Sc (4)	Isolation of bacteriophage from sewage samples	Ms. Sufiya Ansari
11	Sakina Lokhandwala Sakshi Shinde Himanshu Pandey	Degradation and detoxification of azo dyes	Ms. Sufiya Ansari

	Sejal Jain T.Y.B.Sc (4)		
12	Rekha Chataule Riya Debnath Aranta Dongre Anuj Singh Juveria T.Y.B.Sc (5)	Production of bio-ethanol from newspaper	Dr. Sejal Rathod

Projects 2018 - 2019: Ongoing (15)			
Sr No	Students	Title of the project	Mentor Teacher
1	Priya Manglani, Maria Siddiqui, Deepti Shrigadi S.Y.B.Sc (3)	Testing of Antimicrobial properties of saliva	Dr. Sejal Rathod Ms. Sufiya Ansari
2	Kiran Dhaliwal, Ananya Nair S.Y.B.Sc (2)	Detection of PCOS (Kit)	Ms. Sufiya Ansari
3	Purna Kukreja, Tannishtha Shetty S.Y.B.Sc (2)	Contraceptive Efficiency testing kit (Contra)	Ms. Sufiya Ansari
4	Megha Shetty, Amisha Malaviya, Mikael Varghese S.Y.B.Sc (3)	Isolation of mycobionts and phycobionts from lichens and measurement of their anti-microbial activity	Dr. Sejal Rathod Ms. Sufiya Ansari
5	Hufriya Tantra, Afreen Supariwala, Aneeka Shaikh S.Y.B.Sc (3)	Extraction of serotonin from <i>Mycobacterium vaccae</i>	Ms. Hajra Gupta
6	Aditya Achar, Rachel Anthony S.Y.B.Sc (2)	Study of enamel degrading organisms	Ms. Prachi Bhatia
7	Arunika Sherry S.Y.B.Sc (1)	Production of Butanol by <i>Clostridium acetobutylicum</i> using grass as a substrate	Dr. Pratibha Shah Ms Hajra Gupta
8	Kavya Zaveri S.Y.B.Sc (1)	Study of the gut microbiome and isolate the neurotransmitter, Dopamine	Dr. Pratibha Shah Ms Hajra Gupta
9	Soma bhunia, Gauthami Birla, Dolly Pandit. S.Y.B.Sc (3)	Growth promotion by media optimization of <i>lactobacillus</i> .	Dr. Sejal Rathod, Ms Hajra Gupta
10	Ayesha Momin, Saurav Talmale, Apurva Juwatkar , Simran Lawrence S.Y.B.Sc (4)	To isolate ellagic acid producing organism from pomegranate peel extract and to observe antioxidant activity	Dr. Sejal Rathod Ms Richa Shah
11	Ranjika Bhattacharya S.Y.B.Sc (1)	Isolation of anaerobic plastic degrading bacteria from different soil samples	Dr. Sejal Rathod, Ms Sufiya Ansari
12	Akhilesh shinde Saniya kazi Tenzin mingyur	Isolation of dandruff causing microorganisms, antibacterial and antifungal effect	Dr. Sejal rathod Ms. Richa shah

	S.Y.B.Sc (3)		
13	Laveena Goswami Tanya Devnani Tanvi Bhaye S.Y.B.Sc (3)	Testing of anti-acne substances and formulation of new anti-acne cream	Ms. Hajra Gupta Ms. Prachi Bhatia
14	Harsh Gala S.Y.B.Sc (1)	Extraction and qualitative analysis of 6-Aminopenicillic acid from <i>Pseudomonas cichorii</i>	Ms. Hajra Gupta Dr. Sejal Rathod
15	Hamza Qazi S.Y.B.Sc (1)	Quantitative estimation of lauric acid from spoiled coconut and its impact on hair growth	Ms. Sufiya Ansari Ms. Hajra Gupta

Projects 2019 - 2020: Completed (15)

Sr No	Students	Title of the project	Mentor Teacher
1	Chaurasia Jay, Kalani Mohit, Kadam Chaitanya, Ranjika Bhattacharya (Microbiology+ Biotechnology) T.Y.B.Sc (1)	A study on comparison of efficiency of Low-Density Polyethylene (LDPE) degradation under anaerobic and aerobic conditions by anaerobic bacteria and aerobic <i>Aspergillus</i> species isolated from soil	Dr. Sejal Rathod, Dr. Pratibha Shah, Ms. Hajra Gupta (Microbiology+Biotechnology)
2	Priya Manglani, Maria Siddiqui, Deepti Shrigadi T.Y.B.Sc (3)	A broad study on allelopathic potential of Cannonball fruit and leaf extracts on growth promotion of vegetables and growth inhibition of unwanted weeds.	Ms. Hajra Gupta
3	Kiran Dhaliwal, Ananya Nair, Prerna Kukreja, Tannishtha Shetty T.Y.B.Sc (4)	Development of a modified Zimmermann HPAKT colorimetric assay to detect testosterone using urine and devising a unique test series for contemplating PCOS in females	Ms. Hajra Gupta
4	Megha Shetty, Amisha Malaviya, Mikael Varghese T.Y.B.Sc (3)	Laboratory Scale Production of Bio oil from <i>Oscillatoria</i> Algae and its application in production of Biodiesel.	Ms. Prachi Bhatia
5	Hufriya Tantra, Afreen Supariwala, Aneeka Shaikh T.Y.B.Sc (3)	Formulation of a novel bacterial - fungal biofertiliser, its comparison for plant growth promotion with existing chemical fertiliser and evaluation of biochemical properties of soil.	Ms. Hajra Gupta
6	Aditya Achar, Rachel Anthony T.Y.B.Sc (2)	Development of edible and biodegradable food coating on commonly used fruits and vegetables	Ms. Prachi Bhatia
7	Arunika Sherry T.Y.B.Sc (1)	A sequence comparison & structure prediction-based bioinformatics study on protein function annotation of Small Integral Membrane Protein 23 (SMIM23)	Dr. Pratibha Shah, Ms. Hajra Gupta
8	Kavya Zaveri T.Y.B.Sc (1)	The Gut Feeling: Isolation of Dopamine producing organisms, from the Gut microbiome	Dr. Pratibha Shah Ms. Prachi Bhatia
9	Soma Bhunia, Gauthami Bitla, Dolly Pandit. T.Y.B.Sc (3)	Optimization of MRS media with an organic waste substitute and assessing the potential of gut <i>Lactobacilli</i> in ink degradation	Ms Hajra Gupta

10	Ayesha Momin, Saurav Talmale, Apurva Juwatkar, Simran Lawerence T.Y.B.Sc (4)	Isolation and primary screening of biosurfactant producing marine microbes	Dr. SejalRathod Ms. Richa Shah
11	Akhilesh Shinde, Saniya Kazi, Tenzin mingyur T.Y.B.Sc (3)	Comparative Study of the Antimicrobial Activity of various Plant Extracts against Dandruff Causing organism	Dr. SejalRathod Ms. Richa Shah
12	Laveena Goswami, Tanya Devnani, Tanvi Bhaye T.Y.B.Sc (3)	Formulation and evaluation of an Antiseptic Ointment Using Natural Extracts	Ms. Prachi Bhatia
13	Harsh Gala T.Y.B.Sc (1)	Isolation of <i>Pseudomonas aeruginosa</i> from garden soil and evaluation of its potential as a bacterial inoculum for the production of 6-Aminopenicillaic acid	Dr. SejalRathod Ms. Hajra Gupta
14	Hamza Qazi T.Y.B.Sc (1)	Study of spoilage organisms from dried coconut and extraction and estimation of its fatty acid content	Ms. Hajra Gupta
15	Madhu Appugol T.Y.B.Sc (1)	Effect of refrigeration on Vitamin C content of fruits and vegetables	Ms. Hajra Gupta

Projects 2019 - 2020: Ongoing (12)

Sr No	Students	Title of the project	Mentor Teacher
1	Akansha Patwa, Christine Carvalho, Neeti Parmar, Pratiksha Sakpal S.Y.B.Sc (4)	Bioplastic production using banana and orange peel	Dr. SejalRathod Ms . Neha Manoti
2	Didhiti Agarwal Dhevang Rokkala, Shreyas Tawde S.Y.B.Sc- (3)	Study the uses and effects of Pyoverdines produced by <i>Pseudomonas aeruginosa</i> on microbial consortia	Dr. Sejal Rathod
3	Reetikesh Patel S.Y.B.Sc(1)	Effects of D-amino acids and Polyamines on <i>Pseudomonas aeruginosa</i> biofilm.	Dr. Sejal Rathod Ms Hajra Gupta
4	Ayush Limbachiya, Pranav Tejani, Noella Dsouza S.Y.B.Sc (3)	Extraction of caffeine and study of its properties	Dr. Pratibha Shah Ms. Neha Manoti
5	Naina Bhanjer S.Y.B.Sc-(1)	Evaluation of prebiotic properties on plant extracts	Dr. Sejal Rathod
6	Maahenoor Mansoori Zaamena Ansari, Ritika Manawat S.Y.B.Sc (4)	Isolation and characteristic of fertilizer degrading organism.	Ms. Chinmayee Mahadik
7	Anushka MenonShivangi Mishra,Mugdhal Sawant S.Y.B.Sc (3)	Bio-Ethanol Production from Banana Peel, groundnut peel and corn cob by using cultures <i>Aspergillus niger</i> and <i>Saccharomyces cerevisiae</i>	Ms. Hajra Gupta
8	Sonam Gupta, Sera Fernandes S.Y.B.Sc (2)	Bioremediation of petroleum polluted soil using hydrocarbon degrading fungi	Dr. Sejal Rathod Ms Hajra Gupta
9	Yashica Gupta, Bhakti Patkar, Simran Bedi,	Oil extraction from microorganisms	Ms. Chinmayee Mahadik

	Mansi Jain S.Y.B.Sc(4)		
10	Pawan Nagarkar, Abhishek Mhatre, Deepshika Dutta S.Y.B.Sc (3)	Isolation, identification & study of antimicrobial property of a bioactive compound in an Indian medical plant <i>Acalyphaindica</i>	Dr. Sejal Rathod Ms. Neha Manoti
11	Ansh Jain, Karishma Jain, Aditi Verma S.Y.B.Sc(3)	Keratin Production by Decomposing Feather Waste Using Some Local <i>Bacillus spp.</i> Isolated From Poultry Soil	Ms. Hajra Gupta Ms. Neha Manoti
12	Meera Konar, Aafra Mujawar, Peenal Mistry Priya Jogra S.Y.B.Sc(4)	Isolation of sulphate reducing bacteria and corrosion by sulphate reducing bacteria.	Ms. Chinmayee Mahadik Ms. Neha Manoti

B) HANDS – ON EXPERIMENTS

2018 - 2019

Sr No	List of Hands-on Experiments (12)	Beneficiaries
1	Blood Grouping for Students	T.Y.B.Sc (30)
2	Trypan blue staining for cell viability	T.Y.B.Sc (28)
3	Fungal Staining by Lactophenol Cotton Blue	S.Y.B.Sc (21)
4	Isolation of Lactic Acid Bacteria and Evaluation of Curd Quality	S.Y.B.Sc (26)
5	Pentagonal Streaking	F.Y.B.Sc (29)
6	Phenylalanine Deaminase Test	F.Y.B.Sc (32)
7	Lysine Decarboxylase Test	F.Y.B.Sc (32)
8	Oxidative Fermentative Test	F.Y.B.Sc (32)
9	Phosphatase Activity (Qualitative)	T.Y.B.Sc (32)
10	Preparation of Biofertilizer	T.Y.B.Sc (22)
11	Testing of Adulterants in Food	T.Y.B.Sc (32)
12	LC50 determination of pesticides and dyes using <i>Daphnia magna</i>	T.Y.B.Sc (30)

2019-20

Sr No	List of Hands-on Experiments (17)	Beneficiaries
1	To study Absorption spectra of different dyes	SYBSc(36)
2	Isolation of Mitochondria from different samples	SYBSc (37)
3	Green synthesis of silver nanoparticles from various samples	SYBSc (36)
4	Air Sampling: settle plate technique	SYBSc (28)
5	Potability of water from various drinking outlets	SYBSc (30)
6	Effect of surfactant-cetrimide on growth of Microorganisms	SYBSc (35)
7	Phases of Milk Spoilage	FYBSc (20)
8	Quality testing for day-to-day food items	TYBSc. (26)
9	Determination of heavy metal toxicity in water	TYBSc. (30)
10	Evaluating turbidity standards of Water	T.Y.BSc (34)
11	Study of non-symbiotic biofertiliser in garden, hilly and potted soil.	T.Y.BSc (34)
12	Comparative study on effect of chemical and biofertilisers on overall plant growth and soil quality.	T.Y.BSc (34)
13	Isolation of plant growth promoting phosphate solubilizing bacteria from soil.	T.Y.BSc (34)
14	Formulation of a urea based chemical fertilizer	T.Y.BSc (34)
15	Effect of dried molasses as binding agent in formulation of a biofertiliser	T.Y.BSc (34)
16	Comparative study between effect of bacterial and fungal biofertiliser	T.Y.BSc (34)

17	Formulation of a bacterial & fungal biofertiliser with & without binding agent.	T.Y.B.Sc (34)
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C) NEW PRACTICALS**2018-19**

Sr No	List of New Practical (30)	Beneficiaries
1	Journal Club	T.Y.B.Sc (34)
2	Say no to Plagiarism-How to Develop Original content	T.Y.B.Sc (34)
3	Use of MS Word	T.Y.B.Sc (29)
4	Use of Power Point	T.Y.B.Sc (15)
5	Designing a Research Poster	T.Y.B.Sc (15)
6	Use of Referencing Software-Zotero	T.Y.B.Sc (20)
7	Project Presentation	T.Y.B.Sc (34)
8	Introduction to Thesis Writing	T.Y.B.Sc (23)
9	Know your BMI	T.Y.B.Sc (30)
10	Music Therapy	T.Y.B.Sc (30)
11	Paint your Stress	T.Y.B.Sc (34)
12	SOP Manual for Biotechnology Lab	T.Y.B.Sc (34)
13	COSMOS-A Spacetime Odyssey-A National Geographic Series Screening	S.Y.B.Sc (35)
14	My baby and it's genes- An Application of Mendelian Genetics	S.Y.B.Sc (10)
15	Sudan Black Staining	T.Y.B.Sc (25)
16	Radial Paper Chromatography	S.Y.B.Sc (23)
17	Bioautography	T.Y.B.Sc (14)
18	Spirochete Staining	S.Y.B.Sc (23)
19	Metachromatic Staining	F.Y.B.Sc (34)
20	Starch Granule Staining in Potato	T.Y.B.Sc (25)
21	Study of Motility	F.Y.B.Sc (37)
22	Effect of Osmotic Pressure on Growth of Bacteria	F.Y.B.Sc (32)
23	Sauerkraut Fermentation	F.Y.B.Sc (37)
24	Preparation of sauce	S.Y.B.Sc (14)
25	Preparation of Jam	S.Y.B.Sc (24)
26	Understanding the Concepts of Molarity, Normality and % Solution	S.Y.B.Sc (12)
27	Replica Plating	T.Y.B.Sc (22)
28	Extraction of Oil from Peanut	T.Y.B.Sc (20)
29	Osazone test	F.Y.B.Sc (32)
30	Isolation & Qualitative Estimation of Cholesterol and Lecithin from Egg Yolk	T.Y.B.Sc (22)

2019-20

Sr No	List of New Practical (21)	Beneficiaries
1	Qualitative tests for lipids and cholesterol	SYBSc(35)
2	Quality Control and Assurance test of different Microbiological medias	SYBSc (35)
3	Confirming Mitochondria by Methylene Blue assay	SYBSc (29)
4	Isolation of pure colonies by Four quadrant streaking method	SYBSc (30)
5	Isolation of pure colonies by Pentagonal Streaking method	SYBSc (29)
6	Effect of dyes on growth of Microorganisms	SYBSc (36)

7	Oligodynamic action of metals	SYBSc (32)
8	Density Gradient Centrifugation	SYBSc (22)
9	Handling and working of Soxhlet Apparatus	FYBSc&SYBSc (55)
10	Qualitative Analysis of Cosmetics-Lipsticks	FYBSc (18)
11	Antibacterial effects of Phenolics by disc method	SYBSc (26)
12	Making Biodegradable Plastic from potato starch and corn starch	SYBSc (30)
13	Extraction of Biocolours from various naturals samples	FYBSc (27)
14	Testing of starch in food sample	FYBSc (22)
15	Touch plate experiment on the effectiveness of hand sanitizers	FYBSc (23)
16	Qualitative estimation of plant DNA	T.Y.BSc (34)
17	Preparation of plant-based DNA molecular ladder	T.Y.BSc (34)
18	Study of root nodules in leguminous plants	T.Y.BSc (34)
19	Slide culture technique	T.Y.BSc (34)
20	Handling and working of UV-Visible Spectrophotometer	SYBSc (36)
21	Demonstration of working of Esco Biosafety Cabinet, Class II	TYBSc (15)

D) TRAINING RECEIVED BY FACULTY

2018 - 2019

Sr No	Trainings (02)	Faculty	Resource person
1	ICT Enabled Research tools and Techniques	Dr. Sejal Rathod, Ms Sufiya Ansari, Ms Hajra AS Gupta	Mr Abhijit Gole, Assistant Professor, Ruia College
2	Operation and Calibration of Automated liquid handling instruments	Ms Sufiya Ansari, Ms Hajra AS Gupta, Ms Richa Shah	Mr Imran Shaikh, Microlit

2019-20

Sr No	Trainings (07)	Faculty	Resource person
1	Faculty development Programme on ‘Workshop on Excel’	Dr. Sejal Rathod	Mr Paresh Pandya, Proprietor, Creative Line Computer Institute
2	Three-day Workshop on ‘Molecular and Immunological Diagnostic Techniques’ sponsored by Lady Tata Memorial Trust	Dr. Sejal Rathod, Ms. Richa Shah, Ms Prachi Bhatia, Ms Hajra Gupta	Dr. Swarup Shah Dr. Somnath Ghosh Dr. Dhanashree Jagtap Dr. Nafisa Balasinor
3	Training Session on Stress Management	Dr. Sejal Rathod, Ms. Richa Shah, Ms Prachi Bhatia, Ms. Neha Manoti	Mr. Vijay Thigle Former Head of Department, of Microbiology and Art of living Faculty
4	Two-day Programme- Learning Technologies – Learning an overview	Ms. Richa Shah	University of Mumbai
5	Two-day Programme on Shaping a Data Science Curriculum	Ms Neha Manoti	Mr Akshay Dixit SAS Institute

6	Advanced Nanomaterials for Energy and Environmental Applications	Ms Richa Shah	Dr. Pradeep Sarvade
7	Two-day Workshop on Gender and Science	Ms Hajra Gupta, Ms. Richa Shah	Dr. Geeta Chada Mrs. Chayanika Shah

E) EXHIBITION

2018-19

Exhibitions (01)		
Sr No.	Title	Class and No. of Beneficiaries
1	Inspirus 2018	S.Y.B.Sc and F.Y.B.Sc (45)

2019-20

Exhibitions (01)		
Sr No.	Title	Class and No. of Beneficiaries
1	Entrepreneurship Development Programme	SYBSc (34)

F) HANDS-ON TRAINING COURSES

2019 - 2020

Training/Workshop (04)			
Sr No	Title	Type and No. of Beneficiaries	Resource Persons
1	Workshop on ELISA techniques, RFLP & Western Blotting in collaboration with Himedia laboratories pvt.ltd	Interdepartmental (Biotechnology & Microbiology)SYBSc and TYBSc (40)	Mr. Girish Pai Product specialist, Molecular Biology division, Himedia Labarotaries
2	Faculty Development Workshop “Molecular and Immunological Diagnostic Techniques”	Intercollegiate teachers, participants Including faculty, students (120)	Prof. Shripad D. Banavali Director Academics, Tata Memorial Center Dr. Surekha Zingde Former Dy. Director, Cancer Research Institute, ACTREC Dr. Swarup Shah Senior Molecular Scientist, Human Genetics, Hinduja Hospital, Mumbai, Maharashtra Dr Somnath Ghosh Scientific Officer F, Radiation Biology & Health Sciences Division, Bhaba Atomic Research Center Dr. Dhanashree Jagtap

			Scientist C, Structural biology, NIRRH, Mumbai Dr. Nafisa Balasinor Scientist F, Neuroendocrinology Dept, National Institute of Research in Reproductive Health (NIRRH), Parel, Mumbai
3	Workshop on AI: A Tool to Understand Nature	FYBSc (Interdepartmental- Biotechnology, Microbiology, IT, Life Sciences) (163)	Mr Abhijit Gole, Assistant Professor, Ruia College
4	“SCI-SHOTS” Training in Documentary and Short Film Making	SYBSc(Interdepartmental- Departments of Chemistry, Physics, Microbiology, Biotechnology and Life Science) (114)	Mr. Cyrus Dastur SHAMIANA

G) FIELD TRIPS AND INDUSTRIAL VISITS

2018 - 2019

Industrial Visits (06)		
Sr No.	No. of Students	Place
1.	T.Y.B.Sc (33)	NIRRH, Parel
2.	T.Y.B.Sc (10)	ACTREC, Kharghar
3.	FYBSc, SYBSc, TYBSc (75)	Vintage Wines Pvt. Ltd, Nashik
4.	FYBSc, SYBSc, TYBSc (75)	Red Grapes, Wine Information Centre, Nashik
5.	FYBSc, SYBSc, TYBSc (75)	NHRDF, Nashik
6.	FYBSc, SYBSc, TYBSc (75)	York Winery, Nashik

2019 – 2020

Industrial visits (03)		
Sr No.	No. of Students	Place
1	T.Y.B.Sc (10)	ACTREC
2	SYBSc & TYBSc (63)	Common Treatment Effluent Plant (CETP)
3	Teacher Participants +MSc student (30)	National Institute of Research in Reproductive Health , Parel, Mumbai

H) SUMMER TRAINING

2018 - 2019

Summer Training (02)			
Sr No	No. of the students	Institute/College	Department
1	T.Y.B.Sc (02)	Shailesh Diagnostic Center, Mumbai-400003	Biochemistry
2	S.Y.B.Sc (02)	ADAPT, Navy Nagar	NGO

2019 – 2020

Summer Training (04)			
Sr No	No. of the students	Institute/College	Department
1	T.Y.B.Sc (07)	Haffkines Institute Parel, Mumbai- 400012	Virology, Chemotherapy, Serpentology, Chemical Testing Unit
2	S.Y.B.Sc (02)	Shreedhar Bhat's Laboratory	Recombinant dna technology. Genetic engineering. Plant tissue culture. Immunotechnology
3	S.Y.B.Sc (01)	NM Medical	Serology Immunology Clinical Pathology Haematology
4	T.Y.B.Sc (04)	Rapture Biotech (Central Dogma Pvt Ltd)	Enzyme Technology Fermentation Tech Medical Micro

I) SEMINARS**2018 - 2019**

Seminars (01)			
Sr No	Title	Type and No.of Beneficiaries	Resource Persons
1	National Seminar on Recent Advances in Diagnostics	Inter collegiate- Faculty, Delegates and Students (111)	Dr. Surekha Zingde Former Dy. Director Cancer Research Institute, ACTREC, Kharghar Dr. Devarshi Gajjar Associate Professor Maharaja Sayajirao University, Baroda Dr. Varadharajan Sundaramurthy Faculty Researcher National Centre for Biological Sciences (NCBS), Bengaluru

2019 - 2020

Seminars (06)			
Sr No	Title	Type and No.of Beneficiaries	Resource Persons
1	Importance of Molecular and Immunological Techniques in cancer diagnosis.	Teaching staff of Departments of Microbiology, Biotechnology, Chemistry, Life Sciences of colleges of Mumbai, Kalyan, Thane, Navi Mumbai and Sangli (26). Students of BN	Prof. Shripad D. Banavali Director Academics, Tata Memorial Center
2	Research Fellowships and Grants		Dr. Surekha Zingde Former Dy. Director, Cancer Research Institute, ACTREC

3	DNA based diagnostic methods	Bandodkar ,SIES College students and KC College (120)	Dr. Swarup Shah Senior Molecular Scientist, Human Genetics, Hinduja Hospital, Mumbai, Maharashtra
4	Protein based diagnostic techniques and use of Western Blotting		Dr Somnath Ghosh Scientific Officer F, Radiation Biology & Health Sciences Division, Bhaba Atomic Research Center
5	Applications of ELISA		Dr. Dhanashree Jagtap Scientist C, Structural biology, NIRRH, Mumbai
6	Immunohistochemistry & Immunofluorescence		Dr. Nafisa Balasinor Scientist F, Neuroendocrinology Dept, National Institute of Research in Reproductive Health (NIRRH),Parel, Mumbai

J) EXTENTION ACTIVITIES

2019 – 2020

Sr No.	Activity (02)	Class and No. of Beneficiaries
1	Inspirus 2019	FYBSc, SYBSc and TYBSc (82)
2	Lab on Move	SYBSc (17) BMC School students (21) Teachers (3)

K) INVITED LECTURES

2018 - 2019

Invited Lecture (01)			
Sr No	Title	Type and No. of Beneficiaries	Resource Persons
1	Seminar on Assisted Reproductive Technique	FYBSc, SYBSc, TYBSc Biotechnology (100)	Dr. Jatin Shah Head Gynaecologist Mumbai IVF and Fertility Centre

2019- 2020

Invited Lecture (02)			
Sr No	Title	Type and No. of Beneficiaries	Resource Persons
1	Seminar on Neuronal Cross-talk in Development	FYBSc,SYBSc, TYBSc Biotechnology (50)	Shubha Tole, Ph.D. Senior Professor, Department of Biological Sciences Tata Institute of Fundamental Research
2	Seminar on Scientific Writing	SYBSc,TYBSc (47) Biotechnology. TYBSc Microbiology (28)	Ms. Mugdha Ambatkar, Academic Editor, Scholarly Editing and Translation Services Pvt Ltd,

L) BOOKS PURCHASED**2018 - 2019**

Books (01)				
Sr No.	Title of the Book	Publisher	Edition	Year of Purchase
1	Microbial Technology -Volume 1 and 2 set by Pepler	Krieger Pub Co	2 nd Academic Press Practicals	2018

M) PUBLICATIONS IF ANY**Publication: 2019-20 (01)**

Sr. No.	Month and year	Publication title	List of author/s as it appear in the publication	Name of the Journal, Issue no. and year of publication, page nos.	ISSN / ISBN number
1	2020 August	An Economical, Agri-Compliant and Environmentally Sustainable 'Sponge Culture' Method for Large-Scale Production of Actinopigments from soil Actinomycetes	Hajra AS. Gupta, Ashlesha Pande, Dhvani Sanklecha,, Holden Tuscano,, Anjaly Tankaria, Andrea Pinto	International Journal of Scientific Research in Biological Science Vol.7, Issue.4, pp.07-13s	E-ISSN: 2347-7520.

DEPARTMENT OF CHEMISTRY**A) RESEARCH PROJECTS****2018 – 2019**

Completed (03)			
No	Name of the students	Title of the project	Name of Guiding Teacher
1	Shirin Siddique	Study of reactive dyes and their biodegradation	De SheelaValecha
2	Sohrab Sethna	Chemical analysis of organic juices and industrial beverages	Mr Karun Sodah
3	Pooja Jain	Effect of A/C water on kota tiles	DrSatishKolte
New Projects (05)			
No	Name of the students	Title of the project	Name of Guiding Teacher
1	Ms Ansari Humera and Ms Ansari Effat	Preparation of Energy bar using figs and dates and comparing its nutritional status with commercial energy bars	DrSheelaValecha MsMridula Gupta
2	Ms Durriya Kanchwala	Estimation of polyphenolic contents in commercial fruit juices	Mr Karun Sodah
3	Ms Surekha and Ms Somya	Isolation of proteins from <i>Moringa oliefera</i> and <i>Musa acuminta</i> by electrophoresis and its application as antimicrobial and antitubercular	Dr Satish Kolte
4	Ms Dhvani Ms Payal	Analysis of hazardous metals in ready to eat food materials	Dr Rajesh Samant
5	Ms Rachita Asrani	Analysis of Chocolates available in Indian markets	DrYogita Shinde
6	Ms Zoha	Analysis of tattoo ink and its effect on human skin	Dr Charulata Chaturvedi

2019 – 2020

Completed Projects (15)			
No	Name of the students	Title of the project	Name of Guiding Teacher
1	Ms Ansari Humera and Ms Ansari Effat	Preparation of Energy bar using figs and dates and comparing its nutritional status with commercial energy bars	Dr Sheela Valecha Ms Mridula Gupta
2	Ms Durriya Kanchwala	Estimation of polyphenolic contents in commercial fruit juices	Mr Karun Sodah
3	Ms Surekha and Ms Somya	Isolation of proteins from <i>Moringa oliefera</i> and <i>Musa acuminta</i> by electrophoresis and its application as antimicrobial and antitubercular	Dr Satish Kolte
4	Ms Dhvani Ms Payal	Analysis of hazardous metals in ready to eat food materials	Dr Rajesh Samant

5	Ms Rachita Asrani	Analysis of Chocolates available in Indian markets	Dr Yogita Shinde
6	Ms Zoha	Analysis of tattoo ink and its effect on human skin	Dr Charulata Chaturvedi
7	Shreya Kelkar, Darshan, Raksha Kelly, Abhay, Mahima	A study on Oil of Wintergreen	FYBSc
8	Ms Komal Sha Ms Mousam Yadav Ms Shefali Pawar Ms Harshhada Pevekar	Detection of oxytocin	TYBSc
9	Mr Manav Ms Naureen Mr Sijay	Preparation of dyes and pigments from experimental waste materials	TYBSc
10	Ms Shravani Hatkar Ms Ariba Khaniya Ms Sangita Maity Ms Yogita Kundap	Analysis of Kajal	TYBSc
11	Ms Humera Ansari Ms Eram Khan Ms Madalsa Gupta	Preparation of pigments used in poster paints	TYBSc
12	Ms Vedika Pandya Ms Mugdha Shigrekar Ms Khushi thakur Ms Vanshika Watwani Ms Sayali Bomble	Detection of nanoparticles from colocasia leaves	TYBSc
13	Ms Rachel Lobo Ms Somya Gururani Mr Ankur Chunekar Mr Joy Mondal	Preparation of organic shampoo using natural surfactants	TYBSc
14	Ms Ayesha Mansuri Ms Akanksha Pal Ms Misbah Khan	Determination of some soft drink constituents and contamination by some heavy metals	TYBSc
15	Aniruddha Aire Parita Chorge Bhavika Patel Dimple Trikamdas Saakshi Sankpal	and micribial parametres to evaluate the drinking water quality in five different villages in the vicinity of Saphale District:Palghar, Maharashtra	SYBSc

New Projects (07)

No	Name of the students	Title of the project	Name of Guiding Teacher
1	Ms Manvi Kadam Ms Bhakti Jhaveri	Microbial techniques to determine action of vitamins on acne for skin treatment	Dr Sheela Valecha
2	Ms Aamena Lakdawala Ms Urvi Achutan	Detection and estimation of nicotine in toothpastes	Mr Karun Sodah
3	Ms Mahima Kamble Ms Foram Dewani	Study of Gingiber cassumunar on indigestion and other health issues	Dr Satish Kolte

4	Ms Nishi Pandey Mr Shuvam Sharma	Estimation of alcohol and process of alcoholic fermentation on various plant sources in preparation of wine	Dr Rajesh Samant
5	Ms Shifa Khatri Ms Zehra Sabah Syed	To study the chemical and physical properties of spices and condiments and to extract essential oils from certain spices	Dr Yogita Shinde
6	Mr Ishaan Chaurasia Ms Namira Ansari	Analysis of components of whitener and derivative methods to replace VOC's	Dr Charulata Chaturvedi
7	Ms Angela Titre Ms Sanjana Singh	Study of biological activity of traditionally used plant extracts	Ms Mridula Gupta

B) HANDS – ON EXPERIMENTS

2018 – 2019 (13)

Sr No	Title	Type and No. Of Beneficiaries	Resource Persons
1	Analysis of milk	110 SYBSc (6 batches)	Dr Yogita Shinde Ms Mridula Gupta Ms Samina Lambe
2	Separation of milk protein		
3	Estimation of casein		
4	Comparative study of different milk brands		
5	Acid value of oil	110 SYBSc (6 batches)	Dr Yogita Shinde Ms Mridula Gupta Ms Samina Lambe
6	Aldehyde content of oil		
7	Saponification value of oil		
8	Unsap value of oil		
9	Comparative study of different oil brands available in market	110 FYBSc	Dr Sunetra Chaudhari Mr Karun Sodah Dr Charu Chaturvedi Mrs Mridula Gupta Ms Uzma Shaikh
10	Study of potable water parametres		
11	Estimation of acidity of water		
12	Hardness of water		
13	Comparative study of hardness of different water samples obtained from different sources in the college		

2019 – 2020 (16)

Sr. No.	Name of experiment	Class and No.of Beneficiaries	Resource persons
1	Analysis of milk	115 SYBSc (6 batches)	Dr Satish Kolte Dr Yogita Shinde Ms Mridula Gupta Ms Deepika Jain Mr Nilesh Dubey
2	Separation of milk protein		
3	Estimation of casein		
4	Comparative study of different milk brands		
5	Acid value of oil	117 SYBSc (6 batches)	Dr Satish Kolte Dr Yogita Shinde Ms Mridula Gupta Ms Deepika Jain
6	Aldehyde content of oil		
7	Saponification value of oil		
8	Unsap value of oil		

9	Comparative study of different oil brands available in market		Mr Nilesh Dubey
10	Study of potable water parameters	130 FYBSc (6 batches)	Dr S Chaudhari Mr K Sodah Dr C Chaturvedi Mrs M Gupta Ms UzmaShaikh
11	Estimation of acidity of water		
12	Hardness of water		
13	Comparative study of hardness of different water samples obtained from different sources in the college		
14	Separation of dyes	105 FYBSc (6 batches)	
15	Study of effect of mordants on dyeing process	38 TYBSc	Mr Karun Sodah Dr Charulata Chaturvedi
16	Preparation of sodium fusion extract using microscale technique	125 FYBSc 6 batches	Dr S Chaudhari Mr K Sodah Dr C Chaturvedi Mrs M Gupta Ms UzmaShaikh

C) NEW PRACTICALS

2018 – 2019 (05)

Sr No	Title	Type and No. Of Beneficiaries	Resource Persons
1	Separation of indicators by TLC 80: 20 acetone ethanol	38 TYBSc	Dr Sheela Valecha Dr Charu Chaturvedi
2	Separation of indicators by TLC 60: 40 acetone ethanol		
3	Separation of indicators by TLC 75: 25 acetone ethanol		
4	Study of effect of different mordants	40 TYBSc	Dr Sheela Valecha Dr Charu Chaturvedi
5	Study of dyeing process		

2019 – 2020 (03)

Sr.No.	Resource Persons	Class and No. of Beneficiaries	Resource Persons
1	Separation of indicators by TLC	35 TYBSc	Dr Sheela Valecha Dr Charu Chaturvedi
2	Tie and Dye	38 TYBSc	
3	Preparation of methyl salicylate	117 FYBSc	

F) HANDS-ON TRAINING COURSES**2018 – 2019 (04)**

Sr No	Title	Type and No. Of Beneficiaries	Resource Persons
1	Calibration of burettes	40 TYBSc	Dr Rajesh Samant
2	Calibration of thermometres	40 TYBSc	Dr Charulata Chaturvedi
3	Calibration of Standard flasks	40 TYBSc	Dr Rajesh Samant
4	Determination of Viscosity	100 FYBSc	Dr S Chaudhari, Mr K Sodah Dr C Chaturvedi, Mrs M Gupta, MsUzmaShaikh

2019 – 2020 (05)

Sr. No.	Name of experiment	Class and No.of Beneficiaries	Resource persons
1	Calibration of burettes	38 TYBSc	Dr Rajesh Samant
2	Calibration of thermometres	38 TYBSc	Dr CharulataChaturvedi
3	Calibration of standard flasks	38 TYBSc	Dr Rajesh Samant
4	Determination of Viscosity	130 FYBSc (6 batches)	Dr S Chaudhari, Mr K Sodah Dr C Chaturvedi, Mrs M Gupta, MsUzmaShaikh
5	Use of microscale technique	118 SYBSc 6 batches	Dr Satish Kolte, Dr Yogita Shinde, Ms Mridula Gupta Ms Deepika Jain, Mr Nilesh Dubey

G) FIELD TRIPS AND INDUSTRIAL VISITS**2018 – 2019 (09)**

Sr.No.	No.of Students	Place
1	TYBSc 40	Parle Products, Silvassa
2	TYBSc 40	Universal Cosmetics, Silvassa
3	TYBSc 40	Universal Pharmaceuticals, Silvassa
4	TYBSc 40	Adivasi Parichay Kendra, Silvassa
5	TYBSc 40	Dyeing Industry, Saki Naka
6	FYBSc 110	Dhruva Nuclear Reactor, Bhabha Atomic Research Centre
7	FYBSc 110	Supercomputer Lab Bhabha Atomic Research Centre
8	FYBSc 110	Centre for Food preservation using gamma radiations Bhabha Atomic Research Centre
9	TYBSc 35	Department of Atomic Energy, IYPT 2019 Bhabha Atomic Research Centre

2019 – 2020 (04)

Sr.No	No. of Students	Place
1	SYBSc- 100	Sahyadri farms, Nahik, Maharashtra
2	SYBSc-100	Sula Vineyards, Nashik, Maharashtra
3	TYBSc -35	Nassolkem Pvt Ltd, Aml, Union territory of Dadra and Nagar Haveli
4	TYBSc -35	Central Instrumentation laboratory, Narsee Monjee Insitute of Management Studies, Mumbai

I) SEMINARS**2018 – 2019 (04)**

Sr.No	Title	Type and No. of Beneficiaries	Details of the activity conducted
1	Fundamentals of Molecular Symmetry and its applications in chemistry	TYBSc 45	Basics related to Molecular symmetry and different symmetry operations were discussed. Applications and importance of molecular symmetry was explained to the students with examples.
2	Safety in laboratory and CPR	Non-teaching staff from different departments of the college-40	Safety methods CPR was demonstrated and staff was trained for the same
3	Mass Spectrometry and IR	Students and teaching staff members from different science departments. Students from different colleges in Mumbai 65	Basic theory of the techniques Demonstration of working of the instrument Exercise on interpretation of the spectra
4	Career progression after B.Sc.	TYBSc 45	Students were given an overview of career opportunities after graduation .They were also acquainted with various examinations conducted by institutions all over for admissions to PG courses. Also guidelines for preparation for different entrance exams were provided

2019 - 2020 (05)

Sr No	Title	Type and No. Of Beneficiaries	Resource Persons
1	Tax and Investment	Non-teaching staff from different departments of the college - 40	Mr Kailash Chandak, Associate Professor, K.C.College
2	Electronic spectra	TYBSc 45	Dr Suresh Pawar Associate professor , Department of Chemistry, University of Mumbai
3	Air quality assessment for sustainable management	TYBSc 38 SYBSc 95	Dr Gowri Pandit, Adjunct professor,Envt sci and engg dept, IIT, Bombay
4	Calibration of apparatus	TYBSc 35	Ashok Manghani
5	Training for IIT entrance examination	SYBSc 110 and TYBSc 34	Mr Jayesh Tamhankar, Director, ChemSpark

J) EXTENTION ACTIVITIES**2018 – 2019 (04)**

Sr No	Name of the Event	Activities Conducted	Types of beneficiaries	No of beneficiaries
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1	Chemistry for School students	<ol style="list-style-type: none"> 1. Use of Chemical dyes 2. Distillation 3. Flame tests for metals 4. Study of pH 5. Solvent Extraction 	School students from surrounding area	180
2	Chem vision	<ol style="list-style-type: none"> 1. Quiz 2. Poster making 3. It's a matter of one minute 4. Name Game 5. Chem Housie 	UG and PG students from various colleges of Mumbai	140 Total teams 38 23 from other colleges and 15 from K.C
3	Safety in laboratory and CPR	Safety methods CPR was demonstrated and staff was trained for the same	Non teaching staff from different departments of the college	40
4	Mass Spectrometry and IR	Basic theory of the techniques Demonstration of working of the instrument Exercise on interpretation of the spectra	Students and teaching staff members from different science departments. Students from different colleges in Mumbai	65

2019 – 2020 (07)

Sr No	Name of the Event	Activities Conducted	Types of beneficiaries	No of beneficiaries
1	Mentoring the mentors Tribute to J.K. Bhambhani : Chemistry for School Students	Use of Chemical dyes Distillation Flame tests for metals Study of pH Solvent Extraction	School students from surrounding area	45
2	Chem vision	Quiz Poster making It's a matter of one minute Name Game Chem Housie	UG and PG students from various colleges of Mumbai	140 Total teams 38 23 from other colleges and 15 from K.C
3	Tax and Investment	The non teaching staff members were explained the importance and the tricks of investment which would also help in tax saving	Non teaching staff from different departments of the college	40
4	Basic Chemistry with fun for BMC School students	The activity was aimed at popularising Science in School students. The Participants were familiarised with basic and interesting experiment from Chemistry.	BMC school students and science teachers from surrounding schools	60

		Teachers from BMC school also actively participated in the activity		
5	Core and Enabling Technologies	The Mumbai Chapter of NASI was inaugurated and a seminar on Perspectives on Core and Enabling Technologies organized	UG and PG students from different departments	60
6	International Year of Periodic Table (IYPT)	A lecture series by eminent scientists and researchers to commemorate 150 years of the periodic table.	UG and PG students from different colleges of Mumbai	350
7	Effective CV writing	A session on constructing an effective and crisp CV for better career opportunities	Degree college students from the college	450

K) INVITED LECTURES

2018 – 2019 (07)

Sr No	Title	Type and No. of Beneficiaries	Resource Persons
1	Molecular Symmetry	TYBSc 45	Dr Suresh Pawar Associate professor , Department of Chemistry, University of Mumbai
2	Fundamentals of Quantum Chemistry	TYBSc 45	Dr Purav Badani Assistant Professor, Department of Chemistry, University of Mumbai
3	Wonders of Nanotechnology	TYBSc 45	Dr Madhavi Thakurdesai, Head ,Department of Physics, Birla College, Kalyan
4	Career progression after B.Sc.	TYBSc 45	Mr Jayesh Tamhankar, Director, ChemSpark
5	NMR Spectroscopy	TYBSc 45	Mayuri Gandhi, Technical Scientific officer, SAIF
6	Green chemistry	TYBSc 45 S.Y.B.Sc 60	Dr Bhanage, Professor,UICT, Matunga
7	Preparation of solution	S.Y.B.Sc 90	Dr Sudheer Lingayat, Associate Professor, Department of Chemistry, G.N.Khalsa College

2019 – 2020 (11)

Sr No	Title	Type and No. of Beneficiaries	Resource Persons
1	Electronic spectra	TYBSc 45	Dr Suresh Pawar Associate professor , Department of Chemistry, University of Mumbai
2	Air quality assessment for sustainable management	TYBSc 38 SYBSc 95	Dr Gowri Pandit, Adjunct professor,Envnt sci and engg dept, IIT, Bombay
3	Calibration of apparatus	TYBSc 35	Ashok Manghani

4	Training for IIT entrance examination	SYBSc 110 and TYBSc 34	Mr Jayesh Tamhankar, Director, ChemSpark
5	Tax and investment	TYBSc 45	Mr Kailash Chandak, Associate Professor, K.C.College
6	Assay of gem stones and precious metals: a glittering career	TYBSc 45 S.Y.B.Sc 60	Ms Neha shinde, Consultanting faculty, precious metal assay and training institute, Mumbai
7	Soft Skill Communication	SYBSc 110	Mr Kartikeya, Co-Founder, Indian Debating Union
8	Effective Cv writing	Degree college students 450	Mr Kartikeya, Co-Founder, Indian Debating Union
9	Importance of Chemistry in a day-to-day life	UG and PG students from different colleges 350	Padmavibhushan Padmashree Prof M M Sharma
10	The Periodic table and essential elements in life	UG and PG students from different colleges 350	Dr S. Majumdar Senior Professor and Chairman, Department of Chemical Sciences, TIFR, Colaba
11	Nanoscience Challenges Periodic Table and Climate Change	UG and PG students from different colleges 350	Dr Vivek Polshettiwar, Associate Professor Department of Chemical Sciences, TIFR, Colaba

DEPARTMENT OF LIFE SCIENCES**A) RESEARCH PROJECTS**

Completed Projects: 2018-19 (02)			
Sr.No.	Name of the students	Title of the project	Name of Guiding Teacher
1.	Atmaya Vartak and V. Aravind	Phytochemical Analysis and Green Synthesis of Nanoparticles using <i>Couroupita guaeensis aubl.</i>	Dr. Sagarika Damle Dr. Archana Thite
2.	Sukaina Abbas Maitri Trivedi	Comparing the efficacy of commercially available products against acne gel using Bromelain	Dr. Tejashree Shanbhag Mrs.Amruta Kothare

Completed Projects: 2019 - 2020 (13)			
Sr.	Name of the students	Title of the project	Guiding Teacher
1.	Tasneem Nawab and Aakanksha Kulkarni	Creating a Bioinformatics Learning Aid	Dr.Sagarika Damle and Dr.(Ms) Aashu Vajpai
2.	Vikas Gurudu and Jasmine John	Study of properties of various kinds of turmeric and formulation of an ayurvedic face wash and its comparison with commercial face washes	Dr.Sagarika Damle and Dr.Tejashree Shanbhag
3.	Manasi Prabhu, Avani Newrekar	Journey from waste to paper	Dr.Tejashree Shanbhag and Mrs.Amruta Kothare
4.	Niharika Gupta and Bhakti Tari	Production of Asparaginase enzyme from extremophiles	Dr.Shalini Rai and Dr.(Ms.) Aashu Vajpai
5.	Himakshi Vartak and Insiya Selia	Organic Juices; Plastic Degradation by Herbs and Spices	Dr.Archana Thite and Dr.Suvarna Sharma
6.	Bhoomi Dubal, Poonam Gupta	Analysis of efficiency of different feeds on zebrafish	Dr.(Ms.)AashuVajpai and Dr.ShaliniRai
7.	Vishal Bharadhwaj, Rishikesh Masolkar, Avani Newrekar, Manasi Prabhu, Mughdha Shigrekar	Food Nutrition and Healthy Living	Dr.Sagarika Damle and Dr.(Ms)Aashu Vajpai
8.	Humera Ansari, Bhakti Tari, Eram Khan, Madalsa Gupta, Saba Qureshi	Malaria - A Epidemic	Dr.Sagarika Damle and Dr.(Ms)Aashu Vajpai
9.	Vikas Gurudu, Yunus Kharodia, Manu Pillai, Kedar Vaidya, Vipul Vaishnov, Ashish Jaiwal	Awareness of Bioinformatics	Dr.Sagarika Damle and Dr.(Ms)Aashu Vajpai
10.	Effat Ansari, RachitaAsrani, DurriyaKachwala, Raj Shah, Zoha Zariwala, Zia Shaikh	Survey of Night Owl and Early Bird	Dr.Sagarika Damle and Dr.(Ms) Aashu Vajpai

11.	Sayali Bomble, Vedika Pandya, Insiya Selia, Himakshi Vartak, Mausam Yadav	Consumption of Organic Food	Dr.Sagarika Damle and Dr.(Ms) Aashu Vajpai
12.	Garima Jain, Aakanksha Pal, Ayesha Mansuri, Misbah Khan, Tufayl Shaikh, Abhishek Gupta	Eyesight Problems in College Students	Dr.Sagarika Damle and Dr.(Ms)Aashu Vajpai
13.	Bhoomi Dubal, Poonam Gupta, Raveena Papola, Niharika Gupta, Shrutika Hogale, Aakanksha Kulkarni, Sweta Pandey	Menstruation as a social taboo	Dr.Sagarika Damle and Dr.(Ms)Aashu Vajpai

Ongoing Projects: 2018-19 (Ongoing) (13)

Sr. No.	Name of the students	Title of the project	Name of Guiding Teacher
1.	Tasneem Nawab and Aakanksha Kulkarni	Creating a bioinformatics learning aid	Dr. Sagarika Damle and Dr.(Ms)Aashu Vajpai
2.	Vikas Gurudu and Jasmine John	Study of properties of various kinds of turmeric and formulation of an ayurvedic face wash and its comparison with commercial face washes	Dr. Sagarika Damle and Dr. Tejashree Shanbhag
3.	Manasi Prabhu and Avani Newrekar	Journey from waste to paper	Dr. Tejashree Shanbhag and Mrs.Amruta Kothare
4.	Niharika Gupta and Bhakti Tari	Production of Asparaginase enzyme from extremophiles	Dr. Shalini Rai and Dr.(Ms.) Aashu Vajpai
5.	Himakshi Vartak and Insiya Selia	Organic Juices; Plastic Degradation by Herbs and Spices	Dr. Archana Thite and Dr.Suvarna Sharma
6.	Bhoomi Dubal and Poonam Gupta	Analysis of efficiency of different feeds on zebra fish	Dr.(Ms.)Aashu Vajpai and Dr. Shalini Rai
7.	Vishal Bharadhwaj, Rishikesh Masolkar , Avani Newrekar, Mansi Prabhu, Mughdha Shigrekar	Food Nutrition and Healthy Living	Dr. Sagarika Damle and Dr.(Ms)Aashu Vajpai
8.	Humera Ansari, Bhakti Tari, Eram Khan, Madalsa Gupta, Saba Qureshi	Malaria- A Epidemic	Dr. Sagarika Damle and Dr.(Ms)Aashu Vajpai
9.	Vikas Gurudu, Yunus Kharodia, Manu Pillai, Kedar Vaidya, Vipul Vaishnov, Ashish Jaiwal	Awareness of Bioinformatics	Dr. Sagarika Damle and Dr.(Ms)Aashu Vajpai
10.	Effat Ansari, Rachita Asrani, Durriya Kachwala, Raj Shah, Zoha Zariwala, Zia Shaikh	Survey of Night Owl and Early Bird	Dr. Sagarika Damle and Dr.(Ms)Aashu Vajpai
11.	Sayali Bomble, Vedika Pandya, Insiya Selia, Himakshi Vartak, Mausam Yadav	Consumption of Organic Food	Dr. Sagarika Damle and Dr. (Ms)Aashu Vajpai

12.	Garima Jain, Aankanksha Pal, Ayesha Mansuri, Misbah Khan, Tufayl Shaikh, Abhishek Gupta	Eyesight Problems in College Students	Dr. Sagarika Damle and Dr. (Ms)AashuVajpai
13.	Bhoomi Dubal, Poonam Gupta, Raveena Papola, Niharika Gupta, Shrutika Hogale, Aakanksha Kulkarni, Sweta Pandey	Menstruation as a social taboo	Dr.Sagarika Damle and Dr.(Ms)AashuVajpai

Ongoing Projects: 2019 - 2020 (22)

1.	Neha Mer	Healthy Rural Living- A dietary Perspective	Dr. Sagarika Damle
2.	Siddharth Nakhwa	A Comparative study on the nutritive and medicinal properties of <i>Oscimum sanctum</i> and <i>Salvia hispanica</i>	Dr. Tejashree Shanbhag and Dr. Mayuresh Joshi
3.	Rhea Narvekar, Sonia Joshi	Effect of Synthetic sugars on the development of chick embryo	Dr. Shalini Rai and Dr.(Ms.)AashuVajpai
4.	Nafisa Shaikh, Amreen Shaikh, Mariam Ansari	Screening of active compounds from avenue trees of South Mumbai for Biological Activities	
5.	Praniti Pawar, Sanjana Anumalla	Gene delivery by Carbon Nanotube method	Dr. Suvarna Sharma
6.	Maitri Shah, Ashoi Dantra	Making of Anti-insecticidal herbal essence sticks	
7.	Urvi Girish, Farah Ansari, Nameera Ansari, Mariam Ansari, Sanjana Anumalla, Khushi Chauhan	Young India is Sleepless	Dr. Sagarika Damle and Dr. (Ms.) Aashu Vajpai
8.	Ashoi Dantra, Mann Doshi, Mehul Jain, Jumana Jaoravala, Bhakti Jhaveri	Reason for Increasing Obesity in College students	
10.	Sonia Joshi, Manvi Kadam, Aman Kamat, Neha Kanojia, Suman Kanwar, Aqsa Kazi	Sweet Tooth	
11.	Shifa Khatri, Ranjeeta Kumari, Sangeeta Kumari, Aameena Lakdawala, Neha Mer, Sumaiya Mulla	Choclaty Thoughts	
12.	Nafisa Khan, Siddharth Nakhwa, Rhea Nawalkar, Nikita Pandey, Nishi Pandey, Praniti Pawar	Internet Vs Vegetable Vendors	
13.	Sangeeta Rajgor, Atharva Sapre, Rutuja Sawant, Sabah Zehra Sayed, Maitri Shah, Riya Sharma, Abhishek Gupta	How well do you know about your headache	
14.	Shivam Sharma, Amreen Shaikh, Huzaifa Siddique, Sanjana Singh, Trushti	Health on Menu Card	

	Talekar, Angela Titre, Yash Bhimani		
15.	F.Y.B.Sc. Life Sciences (12)	Analysis of water sample from Banganga	Dr. Sagarika Damle, Dr. Archana Thite, Dr. (Ms.) Aashu Vajpai, Dr. Suvarna Sharma, Mr. Gaurav Bingi
16.	F.Y.B.Sc Life Sciences (08)	Preparation of Compost using Laboratory and Kitchen Waste	Dr. Sagarika Damle, Dr. Tejashree Shanbhag, Dr. Shalini Rai, Dr. (Ms.) Aashu Vajpai
17.	F.Y.B.Sc Zoology (52)	Survey of Genetic Traits in F.Y.B.Sc. Zoology Class	Dr. Shalini Rai Dr. (Ms.) Aashu Vajpai
18.	F.Y.B.Sc Life Sciences (04)	Study of Enzymatic Activity of Catalase	Dr. (Ms.) Aashu Vajpai Dr. Shalini Rai, Dr. Mayuresh Joshi
19.	F.Y.B.Sc Zoology (52)	Estimation of Body mass index of the class of F.Y.B.Sc Microbiology and Life Sciences and compiling the data with the use of statistical analysis and proposing the general health status of the group under study	Dr. Shalini Rai, Dr. Tejashree Shanbhag and Mr. Gaurav Bingi
20.	F.Y.B.Sc Zoology (52)	Identification of local birds' variation in different areas	Dr. Shalini Rai, Dr. Tejashree Shanbhag Dr. Aashu Vajpai, Dr. Suvarna Sharma, Mr. Gaurav Bingi
21.	F.Y.B.Sc Zoology (52)	Identifying the fish available in different seasons with respect to fresh water and marine water with local fish market in different areas.	Dr. Shalini Rai, Dr. Tejashree Shanbhag, Dr. Aashu Vajpai, Dr. Suvarna Sharma and Mr. Gaurav Bingi
22	F.Y.B.Sc Zoology (52)	Identification of some common snakes for venomous and non -venomous nature via photographs.	Dr. Shalini Rai, Dr. Tejashree Shanbhag Dr. Aashu Vajpai, Dr. Suvarna Sharma and Mr. Gaurav Bingi

B) HANDS – ON EXPERIMENTS

2018 – 2019 (27)

Sr. No.	List of Practical/Demonstrations (Extension)	Class and No. of Beneficiaries
1.	Aseptic Techniques	F.Y.B.Sc Life Sciences (60)
2.	Staining of Microorganisms from different sources	F.Y.B.Sc Life Sciences (60)
3.	Preparation of Hay Infusion	F.Y.B.Sc Life Sciences (60)
4.	Testing of pH of different commercial fruit juices samples	F.Y.B.Sc. Zoology (55)
5.	Testing of Adulterants in Different Commercial samples of Ghee, Butter, Jaggery and Cheese	F.Y.B.Sc. Zoology (55)

6.	Calculation of BMI and screening of obesity prevalence in F.Y.B.Sc, S.Y.B.Sc and T.Y.B.Sc Life Sciences Students	F.Y.B.Sc. Zoology (55)
7.	Study of Floral Morphology	S.Y.B.Sc Life Sciences (50)
8.	Preparation of chemicals for Inorganic Phosphate	S.Y.B.Sc Life Sciences (50)
9.	Estimation of cholesterol from country egg	S.Y.B.Sc Life Sciences (50)
10.	Comparison of Cholesterol content of Dalda, Coconut Oil and Castor Oil	S.Y.B.Sc Life Sciences (50)
11.	Clay Modeling of Brain	S.Y.B.Sc Life Sciences (50)
12.	Lipid Extraction from different sources – Peanuts, Castor, Coconut	S.Y.B.Sc Life Sciences (50)
13.	Foldscope - Model making & Preparation of Temporary Mounts for Observation	S.Y.B.Sc Life Sciences (50)
14.	Study and Presentation of different instruments: AGE, PAGE, HPTLC, HPLC, Column Chromatography AND Gas Chromatography	S.Y.B.Sc Life Sciences (50)
15.	Phylogenetic Analysis using different softwares	S.Y.B.Sc Life Sciences (50)
16.	Estimation of Hardness using different water samples	S.Y.B.Sc Life Sciences (50)
17.	Estimation of Dissolved Oxygen using different water samples	T.Y.B.Sc. Environmental Sciences (53)
18.	Determination of Turbidity using different water samples	T.Y.B.Sc. Environmental Sciences (53)
19.	Determination of conductivity using different water samples	T.Y.B.Sc. Environmental Sciences (53)
20.	Gram Staining of different organisms from different water samples	T.Y.B.Sc. Environmental Sciences (53)
21.	Studying the pH of different Soil Samples	T.Y.B.Sc. Environmental Sciences (53)
22.	Study of Dosimeter	T.Y.B.Sc. Environmental Sciences (53)
23.	Saliva plate streaking using different types of streaking techniques on Nutrient Agar and Sabouraud's Agar	T.Y.B.Sc. Environmental Sciences (53)
24.	DNA Extraction from Epithelial Cells	T.Y.B.Sc. Life Sciences (24)
25.	Plasmid Extraction and Isolation	T.Y.B.Sc. Life Sciences (24)
26.	Agarose Gel Electrophoresis	T.Y.B.Sc. Life Sciences (24)
27.	Study of UV Trans illuminator	T.Y.B.Sc. Life Sciences (24)

HANDS – ON EXPERIMENTS

2019 – 2020 (30)

Sr.	Title	Beneficiaries
1.	Amino Acid Paper Chromatography using <i>Lichen</i> and <i>Soyabean</i>	F.Y.B.Sc Botany (45)
2.	Streaking of Micro Organisms-Extension to Aseptic Techniques	F.Y.B.Sc Life Sciences (47)
3.	Staining of different Micro organisms	
4.	Preparation of Hay Infusion	
5.	Testing of pH of different commercial food samples	
6.	Handling of Glasswares and calibration of pipettes	
7.	Catalase from different biological sources: Potato and Yeast	
8.	Biostatistical evaluation of the results of the experiment	
9.	Streaking of Soil sample for identification of Soil Microflora	

10.	Comparative status of various brand for basic adulterants in milk, jaggary, butter cheese, salt and honey	F.Y.B.Sc Zoology (45)
11.	Calculation of BMI and screening of obesity prevalence in F.Y Zoology Class	
12.	Estimation of Maltose Content of different bread samples	
13.	Study of endangered species and location of national parks and sanctuaries of world	
14.	Comparison of various antacids with milk	
15.	Comparison of commercial brands of drinks and juices for aeration with CO ₂	F.Y.B.Sc. Zoology (40)
16.	Study of Floral Morphology	S.Y.B.Sc Life Sciences (43)
17.	Preparation of chemicals for Inorganic Phosphate	
18.	Estimation of cholesterol from country egg	
19.	Comparison of Cholesterol content of Dalda, Coconut Oil and Castor Oil	
20.	Clay Modeling of Brain	
21.	Lipid Extraction from different sources – Peanuts, Castor, Coconut	
22.	Thin Layer Chromatography of Alkaloids Using <i>Strychnosnux-vomica</i> and <i>Tobacco</i>	
23.	Study and Presentation of different instruments: AGE, PAGE, HPTLC, HPLC, Column Chromatography and Gas Chromatography	
24.	Phylogenetic Analysis using different softwares	
25.	Research Paper Reading regarding Circular Chromatography	
26.	Study of Drosophila Lifecycle	
27.	Isolation of Casein from different milk samples	
28.	Agarose Gel Electrophoresis	
29.	Saliva plate streaking using different types of streaking techniques on Nutrient Agar and Sabouraud's Agar	T.Y.B.Sc. Life Sciences (25)
30.	Gram Staining of different organisms from different water samples	T.Y.B.Sc. Environmental Sciences (54)

**C) NEW PRACTICALS
2018 – 2019 (12)**

Sr. No.	List of Practical/Demonstrations (New)	Class and No. of Beneficiaries
1.	Preparation of Slides – Fresh water Algae	F.Y.B.Sc Botany (50)
2.	Terrarium Making	F.Y.B.Sc Botany (50)
3.	Poster presentation on current environmental issues	F.Y.B.Sc Botany (50)
4.	Formulation of Herbal Products	F.Y.B.Sc Life Sciences (50)
5.	Identification of marine flora and fauna of Colaba Fort, Alibaug Coast	F.Y.B.Sc Life Sciences (50)
6.	Classification of Animals	F.Y.B.Sc Zoology (60)
7.	Chromatographic Analysis of Pulses	F.Y.B.Sc Zoology (60)
8.	Identification of Birds from local area	F.Y.B.Sc Zoology (60)
9.	Poster presentation on current environmental issues	F.Y.B.Sc Zoology (60)
10.	Multalin Sequence Alignment	S.Y.B.Sc Life Sciences (50)
11.	Making of Foldscope for observation of plant and animal specimens	S.Y.B.Sc Life Sciences (50)
12.	Preparation of Nutrient Media with plant-based ingredients	T.Y.B.Sc Life Sciences (24)

NEW PRACTICALS**2019 – 2020 (12)**

Sr. No.	List of Practical/Demonstrations	Class and No. of Beneficiaries
1.	Study of Urban Plant Families of economic importance	F.Y.B.Sc.
2.	Identification of algal specimens collected from fresh water	Botany (52)
3.	Handling of Glassware and calibration of pipettes	F.Y.B.Sc
4.	Aseptic techniques	Life Sciences (47)
5.	Thin Layer Chromatography of Alkaloids Using <i>Strychnos nux-vomica</i> and <i>Tobacco</i>	
6.	Chromatographic Analysis of various essential amino acids and comparing them with their standards	F.Y.B.Sc Zoology (50)
7.	Estimation of Body mass index of the class of F.Y.B.Sc Microbiology and Life Sciences and compiling the data with the use of statistical analysis and proposing the general health status of the group under study	
8.	Software Tools used in Multalin Sequence Alignment	S.Y.B.Sc Life Sciences (43)
9.	Phylogenetic Tree building using Clustal Omega	S.Y.B.Sc Life Sciences (43)
10.	Understanding of Concept, technique and applications of standard protocols with study of published research data	S.Y.B.Sc Life Sciences (43)
11.	Literature Survey of Eminent Scientists and their contribution and create a Calendar highlighting the “Scientist of the Month”	S.Y.B.Sc life Sciences (12)
12.	Demonstration of Sterilization and aseptic technique for laboratory glassware and Media.	F.Y.B.Sc. Life Sciences (47)

D) TRAINING RECEIVED BY FACULTY**2018 - 2019: 03 (07 faculties)**

Sr. No.	Name of Faculty	Trainings	Resource Persons
1.	Dr. Sagarika Damle, Dr. Shalini Rai, Dr. Archana Thite, Dr. (Ms.) Aashu Vajpai, Dr. Suvarna Sharma	Hands On Training on ICT Enabled Tools for Mentors	Mr. Abhijit Gole, Coordinator, M. Sc. Computer Science, Ruia College, Mumbai
2.	Dr. Aashu Vajpai	Hands On Training Workshop on Innovative Experiments in Biological Experiments	Ramnarain Ruia College in Association with HBSCE, Mumbai
3.	Dr. Suvarna Sharma	Synthetic Biology	Institute of Chemical Technology, Matunga, Mumbai

2019 - 2020: 02 (04 faculties)

Sr.No.	Name of the Faculty	Trainings	Resource persons
1.	Dr. Mayuresh Joshi Mr. Gaurav Bingi	Gender Issue	Ms. Geeta Chaddha and Dr. Chayanika Shah
2.	Dr. Shalini Rai, Dr. (Ms.) Aashu Vajpai	Advanced Excel	Mr. Paresh Pandya

E) EXHIBITION**2018 – 2019 (05)**

Sr. No.	Title	Class and No. of Beneficiaries
1	Sci-Code #18 a. Healthy Salads b. Bio Beauty (Bio Jewellery) c. Nature Photography	48 37 12
2.	Herbal Products – 2019	F.Y.B.Sc (50)
3.	Awareness about diseases	S.Y.B.Sc (50)
4.	Introduction to Cell Organelles	F.Y.B.Sc (50)
5.	Understanding Ecosystems- 2019	F.Y.B.Sc (50)

EXHIBITIONS**2019 - 2020 (02)**

SCICODE#19: An Interdepartmental activity, entitled ‘Sci-Code #19’ was organized by all five departments, under the banner of DBT Star Status College and was extended to all Science departments of K. C. College. Participation was invited from colleges across Mumbai to showcase the innovative ideas in various activities organized under Sci Code#19. It included science projects, working models, training sessions and workshops on various themes.

Sr.No.	Events:	No. of Participants
1.	SciCode #19	
	a. Treasure Hunt	28 (14 teams)
	b. Bio beauty (Bio Jewelry)	11
	c. Nature Photography	12
2.	Herbal Products 2020	F.Y.B.Sc (50)

F) HANDS-ON TRAINING COURSES**2018 – 2019 (04)**

Sr. No.	Title	Type and No. Of Beneficiaries	Resource Persons
1.	One day Workshop on Bio autography Techniques on HPTLC	S.Y.B.Sc. (10) T.Y.B.Sc. (02)	National Facility for Bio Pharmaceuticals, Khalsa College, Mumbai.
2.	Three-Day Hands-On Training in Animal Cell Culture	T.Y.B.Sc. (24)	Dr. Shiney Peter, P.G.Dept of Biotechnology, St.Xavier’s College (Autonomous), Mumbai
3.	Half Day Hands On Training in Phylogenetic Tree Building	S.Y.B.Sc. (46)	Dr. Suruchi Jamkhedkar, University Department of Life Sciences, University of Mumbai
4.	Hands on Training in Effective Presentation Skills	S.Y.B.Sc (46)	Mrs. Vimala Rani, Dept of Computer Sciences K.C.College, Mumbai.

HANDS-ON TRAINING COURSES**2019 – 2020 (04)**

Sr. No.	Title	Type and No. Of Beneficiaries	Resource Persons
1	Hands on Training ‘Zero Garbage’	F.Y.B.Sc Botany, Life Sciences and Zoology (80)	Dr.Neelima Kulkarni, Chairperson, Mulund Vibhaag, Hariyali NGO

2	Hands –on Demonstration Workshop ‘Artificial Bird Nest Making’	Students of S.Y.B.Sc., T.Y.B.Sc. Life Sciences KCC, Students from other colleges and schools (86)	Mr. Rakesh Khatri - Eco Roots foundation, New Delhi
3	Entrepreneurial Activity Herbal Plant Products	F.Y.B.Sc. Botany (50)	Dr Mona Kejariwal , Assistant Professor, R. D. National College, Bandra
4	Hands on Training Workshop on “Setting up Paramecium Culture”	F.Y.B.Sc Life Sciences (46)	Mr. Rajendra Bangera , Non-Teaching Staff, Dept of Life Sciences, K. C. College

**G) FIELD TRIPS AND INDUSTRIAL VISITS
2018– 2019 (08)**

Sr. No.	No. of Students	Place
1.	T. Y.B.Sc Environmental Sciences (53)	Exhibition on Plastic Ban organized by Municipal Corporation of Greater Mumbai at Nehru Science Centre, Worli, Mumbai.
2.	S. Y.B.Sc Life Sciences (50)	Chavan AgroFarms, Karjat, Raigad Maharashtra
3.	F. Y.B.Sc Botany (50)	Algae Collection at Banganga Lake, Mumbai
4.	F. Y.B.Sc Life Sciences, Botany & Zoology (102)	Colaba Fort, Alibaug, Raigad Maharashtra
5.	F. Y.B.Sc, S. Y.B.Sc & T. Y.B.Sc Life Sciences (28)	Tadoba Andhari Tiger Reserve, Nagpur, Maharashtra
6.	F. Y.B.Sc, S. Y.B.Sc & T. Y.B.Sc Life Sciences (28)	Anandvan, Varora
7.	Mangrove walk at Godrej (65 Students and faculty)	Godrej, Vikhroli, Mumbai
8.	F. Y.B.Sc Botany (50)	Friends of Trees Exhibition, Ruparel College, Mumbai

**FIELD TRIPS AND INDUSTRIAL VISITS
2019 – 2020 (08)**

Sr No.	No.of Students/Beneficiaries	Place
1.	T. Y.B.Sc Life Sciences (25)	Metropolis Laboratory, Vidyavihar, Mumbai
2.	T. Y.B.Sc Environmental Sciences (54)	BARC, Trombay, Mumbai
3.	T. Y.B.Sc Life Sciences (25)	Department of Life Sciences, Sophia College, Peddar Road, Mumbai
4.	F. Y.B.Sc Botany (50)	Algae Collection at Banganga, Walkeshwar, Mumbai
5.	F. Y.B.Sc Life Sciences(50)	Saguna Baug, Neral, Thane
6.	F. Y.B.Sc Botany (50)	FOT Exhibition, D.G. Ruparel College, Matunga West, Mumbai
7.	F. Y.B.Sc Botany (50)	Sagar Upvan Colaba - BPT Mumbai's Botanical Garden.
8.	F. Y.B.Sc Botany (50)	Introduction to flora around University of Mumbai.

H) SUMMER TRAINING

2018 – 2020 (03)

Sr. No.	No.of Students	Institute	Department
1.	Simran Chachad (01)	Parle Agro Industries, Vile Parle, Mumbai	Life Sciences
2.	Simran Chachad, Abhishek Gupta, Pratik Shetye, Reshmi Sagar (04)	Global Exhibition on Services held at Bombay Exhibition Centre organized by Dept of Biotechnology, Govt of India	Life Sciences
3.	Sukaina Abbas(01)	D.G.Ruparel College, Mumbai	Zoology

SUMMER TRAINING

2019 – 2020 (01)

Sr.	No. of the students	Institute/College	Department
1.	Ms.Bhakti Tari	National facility for Biopharmaceuticals, G.N.Khalsa College,Matunga	Protein and Molecular Biology

I) SEMINARS

2018 – 2019 (01)

National Conclave: Two Day National Level Biodiversity Conclave entitled ‘My Earth 2050 - Habitats for Sustainable Coexistence’ (In collaboration with Godrej & Boyce Mfg.Co.Ltd.) held on 5th and 6th February, 2019.

Sr. No.	Title	Class and No. of Beneficiaries	Resource Persons
1.	Need for Biodiversity Conservation	Students Faculty Members and Participants from Industry (97)	Dr. Saroj Barik, Director, National Botanical Research Institute, Lucknow, Uttar Pradesh
2.	When we think of plants, we must not forget their pollinators		Dr. Renee Borges, Scientist, Indian Institute of Science, Bangalore
3.	Infrastructure projects and Biodiversity		Dr. Vivek Kulkarni, Consultant, Building Environment (India), Pvt. Ltd., Mumbai
4.	Legal framework for Biodiversity Management		Mr. Zaman Ali, Advocate, Mumbai High court
5.	Overview of Ecosystem Management and Restoration		Dr. Parvesh Pandya, Director, Science and conservation sanctuary, Nature Foundation, Mumbai.
6.	Mangrove, Ecosystem Management A Godrej Case Study		Mr. Laxmikant Deshpande, Manager, Wetland Management system, Godrej & Boyce Mfg.Co.Ltd., Mumbai
7.	Managing Maharashtra Nature Park		Mr. Avinash Kubal, Former Director, Maharashtra Nature Park, Dharavi, Mumbai
8.			Dr. Shruti Barve, In-charge Principal, Rizvi college of architecture, Mumbai

	Matheran: Charlotte Lake conservation and Development in forest ecosystem		
9.	CRZ: An overview of Rules and regulations		Dr. Savita Kerkar, H.O.D Biotechnology, Goa University, Goa.
10.	Mangrove Biodiversity and Ecosystem services		Dr. Niranjana Chavan, Prof. Shivaji University, Kolhapur, Maharashtra.
11.	Advancing conservation research through Geo-spatial technology		Dr. Nishith Dharaiya, Associate Professor, Patan, North Gujrat University, Gujrat
12.	Overview of Biodiversity and Ecosystem Research		Dr. C.S. Lattoo, Independent Researcher, Mumbai.
13.	Importance of Urban Biodiversity		Dr. Rahul Mungikar, Assistant Director, Bombay Natural History Society, Mumbai.
14.	Introduction to Mangroves		Mr. Hemant Karkhanis, Associate Manager, Wetland Management system, Godrej & Boyce Mfg.Co.Ltd., Mumbai.

SEMINARS

2019 – 2020 (02)

One Day National Level Geriatric Management Lecture Workshop entitled '100 Not Out' in association with NSS Unit			
Sr. No.	Title of the session	Beneficiaries	Resource Person
1.	Meditation and its Importance	Student s Faculty Members and Senior Citizens, Participants from NGO,Old Age Homes (70)	Dr. Nutan Pakhare
2.	'60 not out-Life after retirement' at Neuropathy Research and Training Academy		Mrs.Nirmala Bathija
3.	It's all about our Attitude		Dr.Manju Nichani
4.	Care of Spine in Elderly – what I can't do to I can did		Dr. Hrishikesh Sarkar
5.	Multidisciplinary Perspective on Population Aging in India		Dr. S Siva Raju
6.	Eating Right - A Mantra to Graceful ageing		Dr. Sharad Kasarle
7.	Fall Prevention Exercises and Memory EnhancingActivities		Dr. Srinivas Thakur
8.	Cyber Security		Ms. Aparna Thakker
9.	Is Old Age Home an issue or a need of current society?		Dr.Rekha Bhatkhande Mr. Shripad Kuvelkar Dr. Sushila Gupta Ms. Aparna Thakker
10.	Legal Aspects of Elderly Care		Smt. Nirmala Samant Prabhavalkar
Two Day Interdisciplinary Faculty Development Workshop entitled 'Gender and Science' in Association with Department of Physics, Gender Issue Cell of Kishinchand Chellaram College			

Sr. No.	Title of the session	Beneficiaries	Resource Person
1.	What is Gender? How does it applies in social status?	Faculty Members (23)	Ms.Geeta Chaddha
2.	What is Science? How is science gender bias a gender influenced?		Dr. Chayanika Shah

J) EXTENTION ACTIVITIES

2018 – 2019 (05)

Sr. No.	Title	Beneficiaries	Resource Persons
1.	Introduction to Foldscope for School students	SL & SS Girls High School, 8 th Standard (35)	Dr. Anupama Harshal ; Student Volunteers: Niharika Gupta,
2.	Demonstration and Hands-on Training in	Wilson School, 10 th Standard (47)	Dr. Anupama Harshal ;Student Volunteers: Vipul Vanani, Ayesha Siddique, Jasmine John, Vikas Gurudu
3.	Foldscope handling and specimen visualization	Vanita Vishram High School, 4 th Standard (55)	Dr. Anupama Harshal; Student Volunteers:Bhakti Tari and Manasi Prabhu
4.		Queen Mary Girls High School, 10 th Standard (48)	Dr. Anupama Harshal; Student Volunteers: Poonam Gupta and Misab Khan
5.		Apoorva Vigyan Mela, Nagpur, 5 th Standard to 12 th Standard (100)	Dr. Anupama Harshal & Mr. Atul Kotian; Student Volunteers: Vikas Gurudu and Manasi Prabhu

EXTENSION ACTIVITIES

2019 – 2020 (04)

Sr.	Title	Class and No. Of Beneficiaries	Resource Persons
1.	Handling of Foldscope (Inter-departmental)	Faculty Members and T.Y. students, Botany Department, R. D. National College (25)	Dr. Sagarika Damle and Dr. Archana Thite; Resource person: Mr. Atul Kotian (Former CHB Staff, Dept. of Life Sciences, KCC)
2.	Artificial Bird Nest Making Hands – on Workshop (Inter-departmental)	Students of S.Y., T. Y. B. Sc. LSc KCC, Students from other colleges and schools (86)	Mr. Rakesh Khatri-Eco Roots foundation, N. Delhi
3.	Foldscope- A tool for learning from the Green World (Inter-departmental)	Participants from tribal district (40)	Dr. Sagarika Damle
4.	Foldscope Training Visualizing objects with paper microscope Workshop as Peer Mentoring	F.Y.B.Sc. Life Sciences (40)	Ms. Manasi, Ms. Niharika, Ms. Bhakti, Mr. Vikas

K) INVITED LECTURES

2018 – 2019 (11)

Sr. No.	Title	Type and No. of Beneficiaries	Resource Persons
1.	Nutrition for Adolescents	S.Y.B.Sc. and T.Y.B.Sc. Life Sciences (74)	Mrs.Anuradha Mitra, Assistant Professor Nirmala Niketan, Mumbai.
2.	Hands on Training in ICT enabled tools	Interdepartmental: Faculty Members of K.C.College(Aided and Unaided Section) (25)	Mr.Abhijit Gole, Assistant Professor Co-ordinator, Department of Computer Science
3.	Survey based Research Methodology	S.Y.B.Sc. Life Sciences (50)	Dr. Vivek Patkar, Independent Researcher
4.	Physiology of Behaviour in Birds	S.Y.B.Sc. and T.Y.B.Sc. Life Sciences (74)	Dr.Sasikumar Menon, Associate Professor, Department of Bio-analytical sciences, Ramnarain Ruia College Mumbai.
5.	Phylogenetic Tree Building	S.Y.B.Sc. Life Sciences (45)	Dr.Suruchi Jamkhedkar, Assistant Professor, University Department of Life Sciences, University of Mumbai
6.	Budget se Bachat	Non-Teaching Staff of K.C.College(11); T.Y.B.Sc. Life Sciences (18)	Mr. Jatin Agrawal Chartered Accountant & Founder, JNS & Associates LLP, Mumbai.
7.	Avenues in Cell Biology	F.Y.B.Sc.; S.Y.B.Sc. & T.Y.B.Sc. Life Sciences, T.Y.B.Sc. Biotechnology, Microbiology (65)	Prof. Jeremy Simpson Vice-Principal, International University college of Dublin, Ireland.
8.	Edu Link	S.Y.B.Sc. and T.Y.B.Sc. Life Sciences (70)	Mr. Romil Dagha Techno Commercial Executive, Imago and Getter, Mumbai.
9.	Finance	T.Y.B.Sc. (53)	Mr. Kailash Chandak, Associate Professor, Department of Commerce K.C.College, Churchgate, Mumbai.
10.	Hydroponics- Art and Science of Cultivating Soil Less Plants	F.Y.B.Sc. & S.Y.B.Sc. (73)	Mr. Chandan Das Chief executive Officer, Greenban Fresh Pvt.Ltd. Mumbai.
11.	Data Analysis	S.Y.B.Sc. (50)	Mr. N.R. Hegde, Associate Professor, Department of Statistics, S.I.E.S college, Mumbai.


INVITED LECTURES

2019 – 2020 (10)

Sr. No.	Title	Type and No. of Beneficiaries	Resource Persons
1.	Survey based Research Methodology	S.Y.B.Sc Life Sciences(43)	Dr. Vivek Patkar, Independent Researcher
2.	Emotional Pie	S.Y.B.Sc and T.Y.B.Sc Life Sciences (60)	Ms. Jai Bapat, Founder, Synergistic Minds

3.	Careers in Life Sciences	F.Y.B.Sc, S.Y.B.Sc and T.Y.B.Sc Life Sciences (100)	Dr. Suruchi Jamkhedkar , University Department of Life Sciences, University of Mumbai
4.	Designing Google Forms for Online Survey	S.Y.B.Sc Life Sciences (43)	Mrs. Pratiksha Kadam , Dept of Statistics, K. C. College, Churchgate (In House Faculty)
5.	Skills for Future Careers Edu –Link Lecture	S.Y.B.Sc Life Sciences (45)	Dr. Jubin Shah , Ambassador for Higher Education in Germany Conference head at XPOMET Innovation in Medicine, Berlin, Germany
6.	Being Healthy: “What does it actually mean?”	F.Y.B.Sc Botany, Life Sciences and Zoology(60)	Ms. Harshi Shah , Dietitian, Bhatia Hospital, Tardeo, Mumbai
7.	Building of Phylogenetic Tree	S.Y.B.Sc Life Sciences (43)	Dr. Suruchi Jamkhedkar , University Department of Life Sciences, University of Mumbai
8.	Finance	T.Y.B.Sc Environmental Sciences (54)	Mr. Justin M N , Department of Commerce, K.C. College, Churchgate, (In House Faculty)
9.	Lecture on “Artificial Intelligence”	F.Y.B.Sc.- Life Sciences+ Micro Biotech+ IT (163)	Dr. Abhijeet Gole , Assistant Professor, Ruia College
10.	‘Sci Shots’ Lecture in Documentary and Short film making in Association with Shamiana	S. Y. B. Sc (100)	Dr. Cyrus Dastoor , Shamiana

N) ANY OTHER SUPPORTING DOCUMENT



**KISHINCHAND
CHELLARAM
COLLEGE**
Estd. 1954

SAGARIKA DAMLE <sagarika.damle@kccollege.edu.in>

Fwd: Invitation As mentor for Department of Botany, Under Star DBT Scheme

Mona Kejariwal <dbtstarrdnc@gmail.com> Wed, Jul 17, 2019 at 10:18 AM
To: sagarika.damle@kccollege.edu.in

----- Forwarded message -----
From: **Mona Kejariwal** <dbtstarrdnc@gmail.com>
Date: Mon, 8 Jul 2019, 18:07
Subject: Invitation As mentor for Department of Botany, Under Star DBT Scheme
To: <sagarika.damle@kccollege.edu>
Cc: <mehravibha@gmail.com>

Respected madam,
Department of Botany, R.D. & S.H.National College, invites you on 24th, 2019, Wednesday, as mentor for conducting a session on STAR DBT activities in Department of Botany. Kindly acknowledge the same.
Regards,
Dr. Vibha Mehra
HOD, Botany

Dr. Mona Kejriwal
Coordinator, STAR DBT, RDNC

DEPARTMENT OF MICROBIOLOGY**A) RESEARCH PROJECTS**

2018 - 2019

Completed Projects (06)			
Sr No	Name of the students	Title of the project	Name of Guiding Teacher
1	Shaikh Uzma, Sriram Gaurav, Shrestha Vaidehi	Study of enzymatic activity, antimicrobial susceptibility and plasmid extraction of dye degrading organisms	Dr. Pratibha S
2	Agrawal Aesha, Nair Anagha, Chavan Pratiksha	Study of antioxidants and antimicrobials from plant source	Dr. Sejal R
3	Chonkar Purva, Devkate Radhika, Jain Siddhi,	Isolation of coliphages from sewage sample and its application as biocontrol agent in food industry	Mr. V. Thigle, Mrs. Rajitha Satish
4	SYBSc(41 students)	Study of Extremophiles	Dr. Pratibha Shah, Mrs. Rajitha Satish
5	FYBSc (56 students)	Analysis of pH of beverages	Mrs Rajitha S and Ms. Priyanka Y
6	FYBSc (56 students)	Biofertilizers	Mrs Rajitha S and Ms. Priyanka Y

Ongoing Projects (06)			
Sr No	Name of the students	Title of the project	Name of Guiding Teacher
1	Chaurasia Jay Krupashankar, KalaniMohit Rajesh, KadamChaitanya Sanjay	Biodegradation of plastic by microorganism isolated from soil.	Dr. Pratibha Shah
2	Jain NetraNitesh, ShaikhAnas, VohraFalaknaaz Mohammed	Synthesis of pomegranate peel extract mediated silver nanoparticles and study its antibacterial activity.	Dr. SejalRathod
3	ChouhanTanisha Bharat, GazianiShahida Abdul Kader	Investigation of extrapolsaccharide produced by microorganisms in extreme environments and its significance.	Dr. Pratibha Shah
4	Elangikal Janice Wilfred	Effect of Motility on Biofilm formation of bacteria belonging to <i>Bacillus</i> , <i>Proteus</i> , <i>Pseudomonas</i> and <i>Salmonella</i> species and its subsequent effect on Antibiotics.	Dr. Pratibha Shah, Mrs. Rajitha Satish
5	Kiran Yadav	Microbial assessment of raw rice of different brands in prevalence to <i>B.cereus</i> .	Dr. SejalRathod, Ms. Amina D

6	Kothari Gitika Sanjay	Study of antibacterial activity of <i>Averrhoa bilimbi</i> on skin pathogens.	Dr. SejalRathod, Mrs. Rajitha Satish
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2019 - 2020

Completed Projects (10)			
Sr No	Name of the students	Title of the project	Name of Guiding Teacher
1	Chaurasia Jay, Kalani Mohit, Kadam Chaitanya	Isolation of plastic degrader organisms from soil and to check its degradation activity (Interdepartmental)	Dr. Pratibha Shah
2	Jain Netra, Shaikh Anas	Extraction of bacteriocin from lactic acid bacteria and check its effect on gastro-intestinal organisms	Dr. Sejal Rathod
3	Chouhan Tanisha, Gaziani Shahida	Study of extra polysaccharide produced by microorganisms in extreme environments.	Dr. Pratibha Shah
4	Elangikal Janice	Factors affecting biofilm formation in bacteria.	Dr. Pratibha Shah, Mrs. Rajitha Satish
5	Yadav Kiran	Isolation and extraction of pigment producing organisms from rice samples	Dr. Sejal Rathod, Ms. Amina Dholkawala
6	Kothari Gitika	Study of antibacterial activity of <i>Averrhoa bilimbi</i> on skin pathogens	Dr. Sejal Rathod, Mrs. Rajitha Satish
7	Aire Aniruddha, Chorghe Parita, Trikamdas Dimple, Patel Bhavika, Sankpal Sakshi	Analysis of Physiochemical and microbial Parameters to evaluate the drinking water quality in five different villages in the vicinity of Saphale of Palghar district in Maharashtra. (Interdepartmental)	Dr. Pratibha Shah, Mrs. Rajitha Satish Dr Satish Kolte
8	S.Y.B.Sc (57)	Enrichment, cultivation, isolation and identification of Extremophiles	Dr. Pratibha Shah, Mrs. Rajitha Satish
9	F.Y.B.Sc (60)	Analysis of pH of commercial and homemade beverages.	Mrs Rajitha Satish, Ms. Priyanka Yadav
10	F.Y.B.Sc (60)	Production and efficacy testing of Biofertilizers	Mrs Rajitha Satish, Ms. Priyanka Yadav

Ongoing Projects (04)			
Sr No	Name of the students	Title of the project	Name of Guiding Teacher
1	Rane Sanskruti	Study of awareness about benefits of probiotics and evaluation of prebiotic activity of some plant extracts	Dr. Sejal Rathod
2	G Anurag, Chinta Chirag. Chintakindi Ganesh	Green Synthesis of silver nanoparticles and antimicrobial coating of masks, gloves and fabrics	Dr. Pratibha Shah
3	Agrol Namrata, Singh Shalini, Tiwari Jaya	Evaluation of antibacterial activity of vegetable biocleaners	Mrs. Rajitha Satish

4	Mishra Kiran	Determining the efficiency of commercial handwash and sanitizer on normal flora	Ms. Amina Dholkawala
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B) HANDS – ON EXPERIMENTS

2018 – 2019 (19)

Sr. No.	List of Extension Practical	Class and No. of Beneficiaries
1	Lipid extraction and estimation by Soxhlet's method	SYBSC (41)
2	Potability of water from various drinking outlets.	SYBSC (41)
3	Winogradsky column: Study of zones using soil and water samples from Karnala Bird Sanctuary.	SYBSC (41)
4	Study antibacterial spectrum of insoluble drug by ditch plate method	SYBSC (41)
5	Determination of MIC by agar dilution method	SYBSC (41)
6	Antimicrobial activity of commercial disinfectants using disc diffusion method.	FYBSC (30)
7	Flagella staining by silver impregnation method.	FYBSc(56)
8	Micrometry for measurement of cell size	FYBSc(56)
9	Determining RBC count using Haemocytometer	FYBSc(56)
10	Optimization studies for cultivation of phages	FYBSc(56)
11	Study of selective media- Cetrimide and its role as surfactant	FYBSc(56)
12	Analysis of growth of bacteria under stressed conditions and determination of generation time	FYBSc(56)
13	Studying effect of desiccation on bacterial growth	FYBSc(56)
14	Agarose gel electrophoresis for genomic DNA analysis.	TYBSC (29)
15	Determination Of Sugar Concentration in Commercial Drinks by Cole's Ferricyanide Method (Using Calculation Method)	TYBSC (29)
16	Tomato juice agar for isolation of Lactic acid bacteria.	TYBSC (29)
17	Major Minor Crossmatching of blood samples	TYBSC (29)
18	Analysis of Synergistic activity of drugs.	TYBSC (29)
19	Antibiotic Susceptibility Test by Stokes method	TYBSC (29)

2019 – 2020 (15)

Sr. No.	List of Extension Practicals	Class and No. of Beneficiaries
1	Potability of water from various drinking outlets	S.Y.B.Sc (57)
2	Winogradsky column: Study of Stratification zones using soil and water samples from Sanjay Gandhi National Park	S.Y.B.Sc (57)
3	Determination of MIC by agar dilution method	S.Y.B.Sc (57)
4	Extraction of genomic DNA from fruits	S.Y.B.Sc (57)
5	Optimization studies for cultivation of phages	F.Y.B.Sc (60)
6	Flagella staining by silver impregnation method	F.Y.B.Sc (60)
7	Studying effect of desiccation on bacterial growth	F.Y.B.Sc (60)
8	Micrometry for measurement of cell size	F.Y.B.Sc (60)
9	Study of spirochetes from tooth tartar	F.Y.B.Sc (30)
10	Study of selective media- Cetrimide and its role as surfactant	F.Y.B.Sc (60)
11	Analysis of growth of bacteria under stressed conditions and determination of generation time	F.Y.B.Sc (60)
12	Study of Normal Flora of Gastrointestinal tract and respiratory tract	F.Y.B.Sc (30)

13	Restriction digestion of Lambda DNA and <i>E. coli</i> genomic DNA using BamHI and HindIII	T.Y.B.Sc (29)
14	Determination Of Sugar Concentration in Commercial Drinks by Cole's Ferricyanide Method using Calculation Method	T.Y.B.Sc (29)
15	Agarose gel electrophoresis for genomic DNA analysis	T.Y.B.Sc (29)

C) NEW PRACTICALS**2018 – 2019 (16)**

Sr. No.	List of New Practical	Class and No. of Beneficiaries
1	Use of R2A agar for the isolation of stressed organisms from water sample	S.Y.B.Sc (41)
2	Study of eukaryotic cell division by Mitosis	S.Y.B.Sc (41)
3	Estimate Minimum Bactericidal concentration of various disinfectants	S.Y.B.Sc (41)
4	Study of Antibiotic producers from soil sample.	S.Y.B.Sc (41)
5	Green and Chemical synthesis of nanoparticles and checking its antibacterial activity	S.Y.B.Sc (41)
6	Platform tests for analysis of milk samples	S.Y.B.Sc (41)
7	Thin layer chromatography for separation sugars.	S.Y.B.Sc (41)
8	Isolation of Antibiotic resistant organism from train	S.Y.B.Sc (41)
9	Column chromatography for separation of plant pigments.	S.Y.B.Sc (41)
10	Isolation of Pectin degraders	S.Y.B.Sc (41)
11	Isolation of <i>Corynebacterium diphtheriae</i> using selective media	S.Y.B.Sc (41)
12	Handling and working of UV-Vis spectrophotometer	S.Y.B.Sc (41)
13	Study of motility of bacteria using tetrathiazolium dye.	T.Y.B.Sc (29)
14	Bioautography for detection of VitaminB12	T.Y.B.Sc (29)
15	Study of antibacterial spectrum by agar strip method	F.Y.B.Sc (56)
16	Determination of quantity of a compound using intrapolation method (from graph)	F.Y.B.Sc (56)

2019 – 2020 (23)

Sr. No.	List of New Practical	Class and No. of Beneficiaries
1	Quality assurance of media	S.Y.B.Sc (57)
2	Extraction of phytochemicals by Soxhlet's method	S.Y.B.Sc (57)
3	Use of R2A agar for the isolation of heterotrophic organisms from water sample	S.Y.B.Sc (57)
4	Handling of UV-Vis spectrophotometer	S.Y.B.Sc (57)
5	Screening of Antibiotic producers from soil	S.Y.B.Sc (57)
6	Green synthesis of nanoparticles and checking its antibacterial activity	S.Y.B.Sc (57)
7	Study of antibacterial spectrum of insoluble sulphadiazine drug by ditch plate method	S.Y.B.Sc (57)
8	Isolation of Antibiotic resistant organisms from fomites – (Dustbin, table, knobs, floor, mobiles, lab coats)	S.Y.B.Sc (57)
9	Platform tests for analysis of milk samples	S.Y.B.Sc (57)
10	Thin layer chromatography for separation sugars	S.Y.B.Sc (57)
11	Isolation of Pectin degraders	S.Y.B.Sc (57)
12	Isolation of <i>Corynebacterium diphtheriae</i> using selective media	S.Y.B.Sc (57)
13	Column chromatography for separation of plant pigments	S.Y.B.Sc (57)
14	Determine Minimum Bactericidal concentration of various disinfectants of alcoholic and phenolic origin	S.Y.B.Sc (57)

15	Study antibacterial spectrum by agar strip method	F.Y.B.Sc.(60)
16	Aseptic transfer of Media	F.Y.B.Sc (48)
17	Determination of quantity of a compound using graphical intrapolation method	F.Y.B.Sc.(60)
18	Bioautography for detection of Vitamin B12	T.Y.B.Sc (29)
19	Major Minor Cross-matching of blood samples	T.Y.B.Sc (29)
20	MIC of antibiotics by Microdilution Method	T.Y.B.Sc (29)
21	Analysis of Synergistic activity of drugs	T.Y.B.Sc (29)
22	Amplification of DNA using PCR	T.Y.B.Sc (29)
23	SDS-PAGE and Western Blot	T.Y.B.Sc (29)

D) TRAINING RECEIVED BY FACULTY

2018 - 2019 (01)			
Sr No	Trainings attended	Resource person	Name of the Faculty
1	ICT Enabled Research tools and Techniques	Abhijit Gole, Assistant Professor, Ruia college	Dr. Sejal Rathod, Dr. Pratibha Shah

2019 - 2020 (06)			
Sr No	Trainings attended	Resource person	Name of the Faculty
1	Faculty development Programme on 'Workshop on Excel', on 31 st January 2020	Mr Paresh Pandya, Proprietor, Creative Line Computer Institute	Dr. Sejal Rathod, Dr. Pratibha Shah, Mrs. Rajitha Satish
2	Basic and Advance excel course by K.C. College	Mr Kaushal Shah, Senior Manager, Reliance Power Ltd	Dr. Sejal Rathod, Dr. Pratibha Shah, Mrs. Rajitha Satish, Ms. Amina Dholkawala, Ms Priyanka Yadav
3	Blended Learning and Challenges for On-line Teaching	Dr Kuldeep Kumar, Professor, Bond University, Australia	Dr. Sejal Rathod, Dr. Pratibha Shah, Mrs. Rajitha Satish
4	Advanced Nanomaterials for energy and environmental applications on 7th December 2019	Dr Pradeep Sarawade, Assistant Professor, Dept of Physics, University of Mumbai	Dr. Pratibha Shah, Ms. Amina Dholkawala
5	2-day workshop on 'Gender and Science', on 14 th & 15 th February, 2020 at K.C. College	Ms Gita Chadha, Dept of Sociology, University of Mumbai Ms Chayanika Shah, activist	Dr. Pratibha Shah, Ms. Amina Dholkawala
6	ICT Enabled Research tools and Techniques in Teaching Methodologies on 18 th December 2019	Mr Gaurav Ghelani TCS	Mrs. Rajitha Satish

E) EXHIBITION**2018 – 2019 (02)**

Title	Class and No. of Beneficiaries
Microfiesta.3 (Sci-code # 18)	290 116 school students from four different schools, 41 junior college students and 99-degree college students, as well as teachers and parents.
Lecture and Exhibition on BARC Technologies in Collaboration with BARC	Students- 114 Teachers- 15 Latest technologies at BARC were exhibited and discussed with the students. Also, career opportunities at BARC were discussed.

2019 – 2020 (01)

Title	Class and No. of Beneficiaries
Microfiesta.4 (Sci-code # 19) 1. Working Model competition 2. Video making competition	Total: 319 School students from two different schools (156), school students from two different NGO's(19) (Degree and junior college students (125), as well as teachers (9) and parents (10).

F) HANDS-ON TRAINING COURSES**2018 – 2019 (04)**

Sr No	Title	Type and No. Of Beneficiaries	Resource Persons
1	Workshop Character Strengths- Analysis in an Experiential way	Departmental 29 TYBSC students	Mr. Viren Parmar And Dr. Sejal Rathod
2	Workshop Holistic development- International Yoga Day celebration	29- TYBSc students	Mr. Vijay Thigle
3	Training Understanding the measures	Departmental 24 SYBSC students	Dr Pratibha Shah, Rajitha S and Amina D
4	Teachers training: Operation and Calibration of automated liquid handling instruments and dispensers	Interdepartmental - 10	Mr Imran Shaikh, Microlit

2019 – 2020 (03)

Sr No	Title	Type and No. Of Beneficiaries	Resource Persons	Designation
1	Workshop for Teachers and Molecular Immunological Diagnostic Techniques, Organised by Department of	Intercollegiate, Inter-Departmental T.Y.B.SC students (120) and intercollegiate faculty from different colleges	Prof. Shripad D. Banavali	Director Academics, Tata Memorial Center
			Dr. Surekha Zingde	Former Dy. Director, Cancer Research Institute, ACTREC
			Dr. Swarup Shah	Senior Molecular Scientist, Human Genetics, Hinduja Hospital, Mumbai.

	Biotechnology and Microbiology	of Maharashtra (26).	Dr Somnath Ghosh	Scientific Officer F, Radiation Biology & Health Sciences Division, BARC
			Dr.Dhanashree Jagtap	Scientist C, Structural biology, NIRRH, Mumbai.
			Dr. Nafisa Balasinor	Scientist F, Neuroendocrinology Dept, NIRRH, Mumbai.
2	Session on Stress Management	Teaching (15), non-teaching (5) members	Mr. Vijay Thigle	Former HOD, Department of Microbiology and Art of Living Faculty
3	Two Day Training Program for DNA Extraction and Real Time PCR, ELISA in association with Hi Media	T.Y.B.Sc (30)	Dr Girish Pai	Technical officer, Hi Media Pvt. Ltd

G) FIELD TRIPS AND INDUSTRIAL VISITS

2018 – 2019 (06)

Sr No.	No.of Students	Place
1	56 (T.Y.B.Sc. and S.Y. B.Sc.)	Karnala Bird Sanctuary
2	TYBSc -29	Glenmark Pharmaceuticals, R &D unit, Mahape
3	TYBSc -15	ACTREC open day
4	TYBSc and SYBSc- 56	National Center for Cell Sciences
5	TYBSc and SYBSc- 56	Rhythm winery
6	SYBSc- 41	Indian Women Scientist association Science Exhibition on 'Water Uses, Conservation and Future'.

2019 – 2020 (07)

Sr No.	No. of Students	Place
1.	T.Y.B.Sc. and S.Y. B.Sc along with Faculty (90)	Sanjay Gandhi National park, Mumbai.
2.	T.Y.B.Sc along with Faculty (16)	Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Kharghar
3.	T.Y.B.Sc and S.Y. B.Sc along with Faculty (48)	Mapro farms, Wai
4.	T.Y.B.Sc and S.Y. B.Sc along with Faculty (48)	Maharashtra State Khadi and Village Industries Board, Directorate of Bee keeping, Mahabaleshwar
5.	T.Y.B.Sc and S.Y. B.Sc along with Faculty (48)	Katraj Dairy, Pune
6.	F.Y.B.Sc along with Faculty (19)	Bhabha Atomic Research Center, National Science Day
7.	Faculty and students (36)	NIRRH (Molecular and cellular biology, Structural Biology, Toxicology, Gamete immuno-biology, Primate Biology, Animal House and common instrumentation facility)

H) SUMMER TRAINING**2018 – 2019 (03)**

Sr. no.	No. of the students	Institute/College	Department
1	02	Sanjeevani Laboratories,	Internship in Clinical Pathology, Serology, Hematology and Biochemistry
2	01	Nanawati hospital	Internship in Clinical Pathology, Serology, Hematology and Biochemistry
3	03	Disha life sciences lab, ahmedabad	Short term course in Advance Enzymology

2019 – 2020 (11)

Sr. No.	No. of the students	Institute/College	Department
1	03	SRL-Dr Avinash Phadke Lab	Internship in Department of Microbiology
2	02	Wadia Hospital.	Laboratory training in Pathology Department
3	01	Breach Candy Hospital.	Laboratory training in Pathology Department
4	03	S.L Raheja Hospital	Laboratory training in Pathology Department
5	02	Shahbazkers Lab	Internship in microbiology and serology department
6	03	NFB Khalsa	Summer training at Microbiology department (for Molecular Characterization of Microbes)
7	02	NFB GN Khalsa	Summer training at Microbiology department (For HPTLC, Bioautography)
8	01	Geo-Chem laboratories, Mumbai	Internship in Bioanalysis of food and agricultural products department
9	01	Sunflower Laboratory and Diagnostic centre	Internship in Microbiology department
10	01	Life-Care of pathology laboratory, Ahmedabad	Internship in Microbiology and Serology department
11	05	B.N Bandodkar College Department of Biotechnology and microbiology	One week course in Techniques in Molecular biology level

I) SEMINARS**2018 – 2019 (01)**

One Day National Seminar 'RECENT ADVANCES IN DIAGNOSTICS'			
Sr No	Name of Speakers	Designation	No of Beneficiaries
1	Dr Surekha Zingde	Former Dy. Director, Cancer Research Institute, ACTREC, Kharghar	111 Intercollegiate participants Including faculty, delegates and students
2	Dr. Mrs Devarshi Gajjar	Professor, Maharaja Sayajirao University, Baroda	
3	Dr Varadharajan Sundaramurthy	Faculty Researcher, National Centre for Biological Sciences (NCBS), Bengaluru	

J) EXTENTION ACTIVITIES**2019 – 2020 (05)**

Sr. No	Outreach activity	Class and No. of Beneficiaries
1	Lab on the Move (Interdepartmental)	School students of 9 th standard (21) and teachers of SL &SS Girls Municipal High School (3) (Kamlabai High School), Mumbai.
2	Sharing is Caring: donating our science working models and charts to Colaba municipal School	For the Students of Colaba municipal School [9 th standard (167) and 10 th standard (119)]
3	Lectures of workshop Molecular and Immunological Diagnostic Techniques Sponsored by Lady Tata Memorial Trust (Interdepartmental)	S.Y.B.Sc & T.Y.B.Sc students of BN Bandodkar, SIES College students and KC College(120)
4	Scishots- Video making session (Interdepartmental)	S.Y.B.Sc students from Departments of Chemistry, Physics, Microbiology, Biotechnology and Life Science(114)
5	Workshop on AI: A Tool to Understand Nature (Interdepartmental)	F.Y.B.Sc students from Departments of IT, Microbiology, Biotechnology and Life Science (163)

K) INVITED LECTURES**2018 – 2019 (03)**

Sr no	Title	Type and No. of Beneficiaries	Resource Persons
1	Patent Law and Careers	41 - TYBSC Interdepartmental	Mr. Janaksinh Jhala Senior Associate, Intellectual Property (IP) Law, Khaitan& Co
2	Microjourney	Departmental 64 (TYBSC and SYBSC students)	Dr Sejal Rathod, Dr Pratibha Shah, Rajitha S and Amina D

2019 – 2020 (01)

Sr. No.	Title	Type and No. of Beneficiaries	Resource Persons
1	Microjourney	Departmental T.Y.B.SC and S.Y.B.SC (85)	Ms Nikki Dutt, PhD Research Scholar, Indian Institute of Science Education and Research (IISER), Pune

L) BOOKS PURCHASED

2019-20 (01)				
Title of the Book	Publisher	Edition	Year of Purchase	Cost (INR)
Prescott, Harley, Klein's Microbiology	MacGraw Hill	10 th	2019	3300

DEPARTMENT OF STATISTICS**A) RESEARCH PROJECTS**

2018 – 2019

Completed projects (05)

Sr No.	Name of the students	Title of the project	Name of Guiding Teacher
1.	Rishikesh Golhar, Prasheel Nair	Case Study on Statistical Analysis of Effect of Different Genotypes on the Height of Barley Crops	Dr. Asha Jindal
2.	Abhay Deshpande	Case Study on Statistical Assessment of Selection of Candidate for a Post	Dr. Asha Jindal
3.	Abhay Deshpande	Market Basket Analysis:A Consumer Based Approach using Apriori Algorithm	Dr. Asha Jindal
4.	Sumeeta Dwivedi,Zaiba Sayyad, Krina Parmar	Case control study and Analysis of breast cancer, lung cancer and Oral cancer and its prevention.	Mrs. Shailaja Rane
5.	Divya Sristav, Dhara Sankhla and Anam Fatima Shaikh	#10-year challenge	Mrs. Pratiksha Kadam

Projects: Ongoing (04)

Sr. No.	Name of the students	Title of the project	Name of Guiding Teacher
1.	Tandon Satvik Sunil, Rathod Alpesh Mukesh, Shukla Jitesh Kamlesh	Rising Insurance sector in India	Mrs. Shailaja Rane
2.	Gaurav Jadhav Prashant, Shetty Chinmay Shankar, Fagniya Chelsi Sanjay, Potdar Sharvari Shrikant	Market risk and Its measures	Mrs. Shailaja Rane
3.	Jain Siddhi Kishor, Shah Simran Kaushik, Morakia Shanvi, Vora Janvi Vikas	Digital business	Dr. S.B.Muley
4.	Sharma Nakul Shishapal, Parmar Rishabh Manoj, Karle Sudhanshu Nilesh	Wealth distribution	Dr. S.B.Muley

2019 - 2020

Completed Projects (15)

Sr. No.	Name	Title of the project	Name of Guiding Teacher
1.	Tandon Satvik Sunil, Rathod Alpesh Mukesh, Gaurav Jadhav Prashant T.Y.B.Sc (3)	Analyzing Happiness Development Index using Python	Dr. Asha Jindal, Mr. Pravesh Tiwari and Mr. Shubham Niphadkar
2.	Rajesh Kalal, Shubham Gupta - T.Y.B.Sc (2)	Air Quality and India	
3	Archit Joshi, Kamlesh Bhagat T.Y.B.Sc (2)	IGN Game Reviews using Python	

4	Shreya Singh, Pratiksha Kadian T.Y.B.Sc (2)	Comparative Study of Performances of various Players of Cricket matches	
5	Tai Mohammed Moheed, Shreenath Nishad T.Y.B.Sc (2)	Main Constitutes of Air Pollution in Italian City	
6	Aditya Shrivastava, Hruturaj Nikam T.Y.B.Sc (Computer Science) (02)	Analysis of Diabetes	
7	Ansari Zeenat, Isha Chikane, Pranali Dhawadi T.Y.B.Sc (3)	Awareness of Swayam Online Course among graduate students	
8	Yadnesh Potdar, Siddarth Yadav, Sudhanshu Karale T.Y.B.Sc (3)	Suicides in India	
9	Ms. Priyanka Chataule, Ms. Anjali Sutar Faculty (02)	Case Study of Polio in Greater Mumbai	
10	Mayuri Sandge, Aaliya Bansar T.Y.B.Sc (2)	Consumer Complaints Resolution	
11	Mrs. Beenarani Karutharan, Mrs. Shalini A. Maheshgauri Faculty (Computer Science) (02)	Analysis of Student Performance	
12	Tandon Satvik Sunil, Rathod Alpesh Mukesh, Shukla Jitesh Kamlesh T.Y.B.Sc (3)- (SHP)	Prospective Study of Life Insurance Sector in India	Mrs. Shailaja Rane
13	Jain Siddhi Kishor, Shah Simran Kaushik, Morakia Shanvi, Vora Janvi Vikas T.Y.B.Sc (4)- (SHP)	Mechanisms used by retailers against online shopping	Dr. S. B. Muley
14	Gaurav Jadhav Prashant, Shetty Chinmay Shankar, Fagniya Chelsi Sanjay, Potdar Sharvari Shrikant T.Y.B.Sc (4)- (SHP)	Effect of Economic Decisions on BSE	Mrs. Shailaja Rane
15	Sharma Nakul Shishapal, Parmar Rishabh Manoj, Karle Sudhanshu Nilesh T.Y.B.Sc (3)- (SHP)	Wealth distribution	Dr. S. B. Muley
Ongoing Projects (03)			
1	Abhay Deshpande	Selection of Candidate for a Post using Agglomerative Hierarchical Cluster Analysis	Dr. Asha Jindal
2	Aneesha Robert, Darshana Surendran, Shreya Venkatesan S.Y.B.Sc (3)- (SHP)	Analysis of Student Behavior	Dr. S. B. Muley
3	Soham Halbandge S.Y.B.Sc (1)- (SHP)	Which is better of Binary Machine Learning classification model & improvisation for better machine learning model.	Mrs. Shailaja Rane

B) HANDS – ON EXPERIMENTS

2018-19 and 2019-20 (Both years) (08)		
Sr. No.	List of Practical/Demonstrations	Class and No.of Beneficiaries
1	Standard Discrete Distributions using R	F.Y.B.Sc.(52)
2	Standard Continuous Distributions using R	F.Y.B.Sc.(52)
3	Testing of Hypothesis and Z test using R	F.Y.B.Sc.(55)

4	Descriptive Statistics-I using Excel and R	F.Y.B.Sc.(55)
5	Descriptive Statistics-II using Excel and R	F.Y.B.Sc.(55)
6	Tora Package for Operations Research Problems-I	S.Y.B.Sc.(11)
7	Tora Package for Operations Research Problems-II	S.Y.B.Sc.(61)
8	Non- Parametric Test using R	T.Y.B.Sc.(18)

C) NEW PRACTICALS

2018 – 2019 (25)

Sr. No.	List of Practical/Demonstrations	Class and No.of Beneficiaries
1.	Permutation , Combination and Probability using R	F.Y.B.Sc.(52)
2.	Data Analytics and Visualization using MS Excel	F.Y.B.Sc.(43)
3.	Binomial, Poisson and Hypergeometric Distribution using MS Excel	F.Y.B.Sc.(55)
4.	Normal and Exponential Distribution using MS Excel	F.Y.B.Sc.(11)
5.	Large Sample test using MS EXCEL.	F.Y.B.Sc.(61)
6.	Time Series using Excel	F.Y.B.Sc.(18)
7.	Geometric and Negative Binomial Distribution using R	S.Y.B.Sc.(41)
8.	Geometric and Negative Binomial Distribution using Ms Excel	S.Y.B.Sc.(25)
9.	Simple Random Sampling and stratified sampling using R.	S.Y.B.Sc.(19)
10.	Continuous Distribution using R	S.Y.B.Sc.(16)
11.	Continuous Distribution using MS Excel	S.Y.B.Sc.(31)
12.	Application of t-Distribution using MS Excel and R	S.Y.B.Sc.(37)
13.	Application of Chi-square distribution using R and MS Excel	S.Y.B.Sc.(28)
14.	Application of F-distribution using R and MS Excel	S.Y.B.Sc.(28)
15.	Making Gannt chart and Finding ES, EF, LS and LF using Excel and Finding EMV and EOL using R-Studio	S.Y.B.Sc.(35)
16.	Case study writing on Game Theory	S.Y.B.Sc.(35)
17.	ANOVA using Ms Excel	S.Y.B.Sc.(36)
18.	ANOVA using R.	S.Y.B.Sc.(29)
19.	Central Limit Theorem using R and MS-EXCEL	T. Y. B. Sc.(21)
20.	Test for correlation coefficient using R and MS Excel	T. Y. B. Sc. (12)
21.	Simulation using MS-EXCEL	T. Y. B. Sc. (30)
22.	Actuarial Science	T. Y. B. Sc. (30)
23.	Non-Parametric using Excel	T. Y. B. Sc. (31)
24.	Testing of Hypothesis	T. Y. B. Sc. (28)
25.	Introduction to open source software-OpenOffice	F.Y.B.Sc.(18)

2020 -2021 (21)

Sr. No.	List of Practical/Demonstrations	Class and No. of Beneficiaries
1	Basics of R-Software	F.Y.B.Sc. (26)
2	Introduction to Google Forms	F.Y.B.Sc. (52)
3	Question a Questionnaire	F.Y.B.Sc. (44)
4	Continuous Distributions using Ms Excel	F.Y.B.Sc. (42)
5	Swayam (Exploring the courses & Registration)	F.Y.B.Sc (29) F.Y.B. A (10)
6	Geometric and Negative Binomial distribution using MS-Excel	S.Y.B.Sc. (31)

7	Geometric and Negative Binomial distribution using R-Software	S.Y.B.Sc. (49)
8	One way ANOVA Using Excel	S.Y.B.Sc. (49) T.Y.B.A (04)
9	One way ANOVA Using R	S.Y.B.Sc. (23)
10	Advanced Continuous Distributions using Ms Excel	S.Y.B.Sc. (31)
11	Transshipment Problems	S.Y.B.Sc. (18)
12	Application of Chi- Square Test using Ms Excel and R Software	S.Y.B.Sc. (26)
13	Two way ANOVA Using Excel	S.Y.B.Sc. (40)
14	Application of T-Distribution using MS-Excel and R Software	S.Y.B.Sc. (46) T.Y.B.A (03)
15	Use of Dummy Variables in Regression Analysis	T.Y.B.Sc. (18)
16	Simulation using MS – Excel Software	T.Y.B.Sc. (12)
17	Logistics Regression Analysis	T.Y.B.Sc. (28)
18	Public Tableau for Data Visualisation	T.Y.B.Sc., M.Sc. (18)
19	Annuities using Excel And R	T.Y.B.Sc. (35)
20	Case Studies Solving [Biostatistics & Assurance]	T.Y.B.Sc. (30)
21	Cluster Analysis using R	T.Y.B.Sc. (36)

D) TRAINING RECEIVED BY FACULTY

2018 – 2019 (03)

Sr. No.	Name of Faculty	Trainings	Resource Persons
1.	Dr. Asha Jindal, Mrs. ShailajaRane, Mrs. PratikshaKadam, Dr. S. B. Muley. Dr. Rajendra Chavhan Mr. ShubhamNiphadkar	Training on “Analysing and Visualising data with Python software	Ms Ria Dhwan, Research Executive, Nielsen India, Mumbai
2.	Ms.Pratiksha Kadam	Faculty Development Program cum Workshop for Mathematics & Statistics Teachers	Dr. Aparna Joshi, TROP ICSU & Indian Institute of Science Education & Research, Pune
3.	Ms. Shailaja Rane	ICT Enabled Research tools and Techniques	Mr.Abhijit Gole, Coordinator, M. Sc. Computer Science, Ramnarain Ruia College (Autonomous), Mumbai

2019 – 2020 (03)

Sr. No.	Name	Trainings	Resource person
1	Mr. Shubham Niphadkar, Ms. Priyanka Chataule, Ms. Anjali Sutar	Android App Development	Faculties of Microsoft and IIT
2	Mr. Shubham Niphadkar, Ms. Priyanka	ONE DAY STATE LEVEL FDP ON NET	1.Mr. Pritesh Kalan Asst. Professor, Department of Mathematics, Elphinstone

	Chataule, Ms. Anjali Sutar	& SET Examination Preparation	College, Dr. Homi Bhabha State University, Mumbai 2. Dr. Ganesh Phad Asst. Professor, Department of Statistics, K.T.H.M. College, Nasik 3. Dr. Nilesh Mundlik asst. Professor, Department of Mathematics, Nowrosjee Wadia College, 4. Manish Agalave, Assistant Professor, Department of Mathematics, Fergusson College, Pune
3	Ms. Priyanka Chataule, Ms. Anjali Sutar	Python Programming	Mr. Pravesh Tiwari Senior Data Analyst, Accenture

E) EXHIBITION

An Interdepartmental activity, entitled ‘SciCode #19’ and ‘SciCode#18’ was organized by all five departments, under the banner of DBT Star College scheme and was extended to all Science departments of K.C.College. Participation was invited from colleges across Mumbai to showcase the innovative ideas in various activities organized under Sci Code#19. It included science projects, working models, training sessions and workshops on various themes.

2018 – 2019 (01)

Sr. No.	Title	Class and No. of Beneficiaries
1.	Interdisciplinary State level Data Analytics Championship- Day 2	All three years of U.G. – 24 teams i.e., 48 Students

2019 – 2020 (02)

Sr. No.	SCICODE # 19	Class and No. of Beneficiaries
1	Intercollegiate Sankhya Astra-Dashboard presentation, Crossword, Poker	All three years of U.G. (19 teams-65 Students)
2	Statistical Housie	Intercollegiate (24)

F) HANDS-ON TRAINING COURSES

2018 – 2019 (03)

Sr. No.	Title	Type and No. Of Beneficiaries	Resource Persons
1.	Analyzing and Visualizing Data using Python	T. Y. B. Sc. Students and teachers of other colleges – 43	Ms. Ria Dhawan, Research Executive, Nielsen India, Mumbai.
2.	Interdisciplinary State level Data Analytics Championship (Analyzing and Visualizing Data with Ms- Excel, Python and R Software)- Day 1	U.G. – 24 teams	Dr. Asha Jindal, Associate Professor and Head Mrs. Pratiksha Kadam, Assistant Professor Dr. S. B. Muley, Assistant Professor Dr. Rajendra Chavhan, Assistant Professor Mr. Shubham Niphadkar Assistant Professor (In-house Faculty)

			Department of Statistics, K.C.College, Churchgate, Mumbai-20
3.	Time Series and Forecasting Models using R and MS Excel	F.Y.B.Sc.-32	Mr. Mukesh Jain, Chief Technological Officer, Capgemini

2019 – 2020 (05)

Sr. No.	Title	Type and No. of Beneficiaries	Resource Persons
1	Data Analysis Using JAMOVI software (National Statistics Day)	S.Y.B.Sc. and T.Y.B.Sc. of Statistics and Life Sciences (65)	(In-House Faculty) Dr. Asha Jindal, Mrs. Shailaja Rane, Mrs. Pratiksha Kadam, Dr. S.B.Muley Mr. Shubham Niphadkar
2	Introduction to R-Program	F.Y.B.Sc. and F.Y.B.A. (39)	Mr. Prashant Shah, Associate Professor and Head, K. J. Somaiya College
3	Interdisciplinary FDP in collaboration with SAS Institute (India) Pvt. Ltd on Shaping a Data science curriculum: Unleashing potential of IoT, Machine Learning and A.I.	Faculties from In-house and other colleges (29)	Mr. Akshay Dixit, Faculty, SAS Institute (India) Pvt. Ltd
4	Training Program in Python Programming	T.Y.B.Sc. and M.Sc. Students- Statistics and Computer Science (60) and Faculties (04)	Mr. Pravesh Tiwari, Senior Data Analyst, Accenture
5	ONE DAY STATE LEVEL FDP ON NET & SET Examination Preparation	Faculties from In-house and other colleges (32)	1) Mr. Pritesh Kalan, Assistant Professor, Department of Mathematics, Elphinstone College 2) Dr. Ganesh Phad, Assistant Professor, Department of Statistics, K.T. H. M. College, Nasik 3) Dr. Nilesh Mundlik, Assistant Professor, Department of Mathematics, Nowrosjee Wadia College, Pune 4) Manish Agalave, Assistant Professor, Department of Mathematics, Fergusson College, Pune

G) FIELD TRIPS AND INDUSTRIAL VISITS

2018 – 2019 (01)

Sr. No.	No.of Students	Place
1.	T.Y.B.Sc. and S.Y.B.Sc.(39)	Dr. Balasaheb Sawant Kokan Krishi Vidyapeeth, Dapoli, Maharashtra

2019 – 2020 (01)

Sr. No.	No. of Students	Place
1	T.Y.B.Sc, S.Y.B.Sc and F.Y.B.Sc (17)	I.I.T. Bombay, Powai

H) SUMMER TRAINING NIL

D) SEMINARS

2019 – 2020 (02)

Sr. No.	Title	Type and No. of Beneficiaries	Resource Persons
1	Remote Sensing And GIS Based Mapping For Water Supply and Sanitation using High Resolution Satellite Data	T.Y.B.Sc., F.Y.B.Sc. M.Sc (75)	Dr. Shailesh Kanade, Water Quality Consultant, Water Supply and Sanitation Dept., Govt. of Maharashtra
2	Future Career Opportunities in the field of Actuarial Science	T.Y.B.Sc., F.Y.B.Sc. S.Y. B.Sc (72)	Mr. Hiten Kothari, Appointed Actuary, HDFC Ergo

J) EXTENTION ACTIVITIES

2018 – 2019 (07)

Sr. No	Name of the Activity	Type of Beneficiaries	Resource person
1.	Celebration of National Statistics Day- Statistical Crossword and Statistical Housie	Intercollegiate(69)	Dr. Asha Jindal, Associate Professor and Head Mrs. Shailaja Rane, Assistant Professor Mrs. Pratiksha Kadam, Assistant Professor Dr. S. B. Muley, Assistant Professor Dr. Rajendra Chavhan, Assistant Professor (In-house Faculty) Department of Statistics, K.C.College, Churchgate, Mumbai-20
2.	Understanding Data generation in the field of Weather forecasting.	Students (39) Teachers (03)	Prof. Raju Mahadik Department of Agronomics Dr. Balasaheb Sawant Kokan Krishi Vidyapeeth, Dapholi, Ratnagiri, Maharashtra.
3.	Understanding Data analysis in the field of agriculture.	Students (39) Teachers (03)	Prof. Dr. Janardan S. Dhekale Dr. Balasaheb Sawant Kokan Krishi Vidyapeeth, Dapholi, Ratnagiri, Maharashtra.
4.	Unnat Bharat Abhiyan Survey, at Saphale.	Students (20)	Dr. Satish Kolte, Dr. S.B. Muley and Mr. Shubham Niphadkar (In-house Faculty, K.C. College)
5.	Open Stage	Students (14)	--
6.	Intercollegiate Rangoli	Students (24)	--

7.	Publication of K. C. Environmental Committee magazine- Titled “Environmental Space”	All students and Teachers.	(In-house Faculty, K.C. College)
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2019 – 2020 (01)

Sr. No	Name of the Activity	Type of Beneficiaries	Resource person
1.	Publication of K. C. Environmental Committee magazine- Titled “Environmental Space”	All students and Teachers.	(In-house Faculty, K.C. College)

K) INVITED LECTURES

2018 – 2019 (04)

Sr. No.	Title	Class and No. of Beneficiaries	Resource Persons
1.	Demo Lecture on STATcraft	T.Y.B.Sc., S.Y.B.Sc. S.Y.B.A. (57)	Mr. Shubham Das & Mr. Manjunath M.C. Manager, STATcraft, Bangalore,
2.	Talk & Documentary Screening on Recycling of Multi Layered Plastic	T. Y. B. Sc., F. Y. B. Sc. (60)	Kanupriya Pawar, Safai Bank Co-ordinator, WWF- India, Maharashtra State
3.	Analysis of data using spread sheets	Students of Jigyasa science honors program	Shailaja Rane Assistant Professor, K.C. College
4.	Guidance Lecture on M.Sc. Entrance IIT JAM	F.Y.B.Sc. (23) S.Y.B.Sc. (42)	Mr. Shubham Niphadkar Assistant Professor, K.C. College

2019 – 2020 (02)

Sr. No.	Title	Type and No. of Beneficiaries	Resource Persons
1	Role of Data Analytics in Economics	T.Y.B.Sc. And T.Y.B.A. (42)	Dr. Sandhya Krishnan, Meghnad Desai Academy of Economics, Mumbai
2	Guidance Lecture on M.Sc. Entrance IIT JAM	F.Y.B.Sc. (38)	Mr. Shubham Niphadkar, Assistant Professor, K.C. College

L) BOOKS

2019 – 2020 (26)

Sr. No.	Title of Books	Publisher	Edition	Date of Purchase
1	Applied regression Analysis	Wiley		16/10/19
2	Basic Course in Real Analysis	CRC		16/10/19

3	Linear Models	Wiley		16/10/19
4	Linear Regression Analysis	Wiley		16/10/19
5	R for statistics	T&F		16/10/19
6	Modern Probability Theory	New Age		16/10/19
7	Mathematical Analysis	New Age		16/10/19
8	Design and Analysis of Experiments	Wiley		16/10/19
9	Applied Multivariate Statistical Method	Pearson		16/10/19
10	Regression Analysis with example	Wiley		16/10/19
11	Applied Logistic Regression	Wiley		16/10/19
12	Categorical Data Analysis	Wiley		16/10/19
13	Matrix Algebra useful for Statistics	Wiley		16/10/19
14	Probability-A Graduate Course	Springer		16/10/19
15	Mathematical Analysis	Narosa		16/10/19
16	Fundamentals of Probability Theory	Narosa		16/10/19
17	Survey Sampling	Narosa		16/10/19
18	Design and Analysis of Experiments	New Age		25/01/19
19	An Introduction to Multivariate Statistical Analysis	Wiley		25/01/19
20	Business Statistics	Sultan Chand		28/01/20
21	Modern Probability Theory: An Introductory Textbook	New Age		14/02/20
22	Applied Multivariate Statistical Analysis	Pearson		14/02/20
23	Advanced Linear Models Theory & Application	CRC		28/02/20
24	Modern Survey Sampling	CRC		28/02/20
25	Analysis of Binary Data	Chapman & Hall		28/02/20
26	Analyzing and Visualising Data using free Open-Source Software: Python Programming with Case Studies	Shailja Prakashan and K. C. College ISBN No. 978-93-80788-93-7.	First Edition	2020

N) ANY OTHER SUPPORTING DOCUMENT

