

Green Initiatives under DBT Star Project

Title- Soil Analysis

Department	Title of the project	Name of supervisor
Biochemistry	Effect of temperature & P ^H of various soil sample	Dr. Renuka srihari Ms. Vani.K.M
Biotechnology	Isolation, characterization and identification of bacterial species by total bacterial community DNA analysis	Dr. Babitha.B Dr.Jolitha.A.B Dr.Sushil Kumar Middha Mrs.Jayshree.N.S
Botany	Isolation of Fungi from various soil samples	Dr. M. ReemaKumari Ms. Kavya B.
Chemistry	Qualitative Analysis of soil samples to estimate the amount of calcium and magnesium.	Dr. Nagalaxmi.B.N.
Microbiology	Study of e-waste management by microbial activity	Ms. Vijayadeep.C
Zoology	Identification of protozoans from soil samples	Ms.Shashikala Ms.Aruna

A. List of projects (III year B.Sc Students) 2016 - 2017

Total No. of projects - 20

No. of Beneficiaries- 65

Department	Title of the projects	Name of students	Name of supervisor
Biochemistry	Study of effect of temperature and catalyst on biofuel yield.	Renu Thomas, Chamundeswari, Nishara Kiran	Dr Renuka Srihari
	Extraction and characterization of Biodiesel from mixed seed sample	Sahithya, Manasa, Niveditha	Ms Vani K M
Biotechnology	Comparative analysis of different isolation methods for <i>Streptococcus mutans</i> from	Swathy P M, Sathya P Tejaswini M	Mrs.Hemavathy.E

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	different clinical samples		
	Production of silver nano particles from promegranate peel and guava leaves and evaluation of its anti oxidant activity	Suma M, Sindhu C Shamitha K M	Mrs.Usha T. Middha
Botany	Production of Biodiesel from <i>Eicchornia</i> plant	Apoorva, Sindhu, Sreeraksha, Madhuvanthi	Ms. Sujatha, N.S
	Solvent extraction of seeds of Copper pod for production of biodiesel	Gouthami, Sona, Sridevi Kulkurni, Jessica	Ms. Sharmistha Dutta
	Estimation and characterization of	Laxmi, Nidhi, Niveditha	Dr. SriLakshmi, S


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	Biodiesel from Corn		
	Extraction and characterization of Mango seeds for potential Biodiesel	Pratibha, Siksha, Sonia	Dr. Reema Kumari M
Chemistry	Synthesis of Biodiesel from waste cooking oil	Akshatha.A, Anitha.A, Anuradha.M, Bhargavi Kannan, Bindushree BV	Dr.Nagalaxmi.B.N
	Synthesis of Biodiesel from Mixed seeds.	Champana.K.K, Fernaz Neha, Harshitha, Hemalatha.D.S	Ms. Nussarath Zareen
	Study of physical parameters of the biodiesel extracted from waste cooking oil	Poojashree.K.J Pushpalatha.R.V, Shruthi.V, Smitha.B.	Dr.Radhakrishna.N
	Comparative study of various parameters of Biodiesel obtained from pongamia seeds from two different areas	Kavyashree.R Krupa.C.K, Mamatha.G, Neha Afsha	Ms .Muralidhara.M
Microbiology	Isolation and Characterization of petroleum degrading microorganisms from soil	N.S. Phalguni Bhat, Priyanka. N, Swathi B.U	Lt. Capt. Chaithanya
	Isolation of human pathogenic fungi from bird droppings and standardization of antimicrobial agents against the isolates	BinduKale.A, Sanjana	Ms. Vijayadeep.C
	Survey and analysis of water sample from Bellandur lake, Bangalore	Anagha, Bhavana.S, Suma.C	Ms. Vijayadeep.C
	Study & characterization of microbial contaminated currency in Bangalore	Anushree.S, Jayachithra. S, Yoshita Bhargav	Ms. Vijayadeep.C
Zoology	Extraction of biofuel from animal fat	Shobana , Ramya K, Shashwathi	Ms.Indira C
	Alternative energy fuel from chicken waste	Urmila, Anice Thomas, Ramya R	Ms. Shashikala A
	Best out of waste – Extraction of biofuel from silkworm pupae	Chethana, Ramya , Sahana K S	Ms.Aruna H K
	Converting Scombridae family fish waste to biofuel	Rangu Joshi, Ashwini, Pavithra	Ms .Bharathi RamKumar

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2018- 2019

Total No. of Projects: 24

Total No of Beneficiaries: 126

Department	Title Of Project	Supervisor Name	Name Of Students
BIOCHEMISTRY	Natural flora and fauna as biofactories for a promising approach towards sustainable fatty acid production	Dr. Renuka srihari	Ashwini Bhat Aishwarya.B Chandana.M Harshitha.D.M Chandana.R Nikitha.B Krupa.S.M
	Screening the omega fatty acid potential of microbes	Ms. Vani.K.M	C.P.Manisha Manisha.M.S Bhumika.V Deepika.R Kavya.M Ayesha.G Mamatha.S.E

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BIOTECHNOLOGY	Effect of continuous water intake on Brain using murine model	Dr. Sushil Kumar Middha	Neha Naaz Prachurjya Panda Ramya Manasa
	Extraction and Characterization of biogenic silica from different sources under laboratory conditions. (extension of earlier work)	Dr. Medhini.N	Rathna C Shorna Priya Supreetha B S Sneha Shenoy M D Sowmya M S Veena B C
	Study on the effect of Karanjin from Pongamia seed cake as an bioinsecticide against Helicoverpa larvae	Dr. Babitha.B	Anusha.P, Asmita Arya, Bhoomika, Chaitra.K.M, MadhuriBai.R Mallika B.C
BOTANY	Antimicrobial and Phytochemical screening of hypoglycemicly active floral extract of <i>Withania coagulans</i> L.	Dr. S. SriLakshmi	Archana Chaitanya Deepa Divya Harshitha.H.P Harshitha Rajkumar
	Callus induction and regeneration in <i>Crinum malabaricum</i> - an endemic species	Dr. M. Reema Kumari	Kavya M. Likhitha N. Nanditha C. J. Nithyashree N. Sushmitha K. Swathi K.
	Pharmacognostic evaluation of <i>Kindal</i> (<i>Terminalia paniculata</i> Roth.) tree bark	Ms. Kavya B.	Niveditha R. Priya S. Punita V. Sangeetha R. Sathyashree S. Shivalakshmi C.
	Phytochemical analysis of <i>Punica granatum</i> L. peel extract	Mrs. Sharmistha Dutta	Vanitha N. Varsha U.C. Varshitha H.R. Vidyashree H.V. Vidyashree S.
	Studies of antimicrobial and antioxidant activity of <i>Punica granatum</i> L. peel extract	Mrs. Sharmistha	Keerthana Krupanka


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		Dutta	Pallavi Pooja Rakshitha
CHEMISTRY	Analysis of caffeine and related compounds present in certain beverages, tea leaves and coffee beans.	Mr. Muralidhara M	Gagana M Arpitha H R Harshitha G
	Design, Synthesis and Characterization of Receptors for Copper Ion	Mrs. Swathi N	Ankitha Kumari Divya G Kavitha V N
	Isolation Characterization and Degradation of Piperine from Black Pepper	Mrs. Sumanjali K	Chinappalatha Kala B Babitha B Anjaliprajapathi
	Preparation and characterization of Silver Nanoparticles using bioactive antibacterial agent- Curcumin.	Ms. Afshan Izzath Mab	Amreen Fathima S Madhuri V Kumari M Sangeetha Lavanya M
	Preparation of Ag-ZnO via Thermal Decomposition of Precursors: Insights from Calcination Method on the Crystallinity and their Correlation on the Photocatalytic Activity	Mrs. Sushma C	Bhuvana C Kavya C V Harshitha C
	Preparation of Herbal Neem Soap and its Chemical Characterization	Mrs. Divya B N	Chandana V B Madhumathi V Manjushree H V Lavanya S
	Waste Plastic Carry Bags Incorporated Concrete Blocks	Dr. Nagalaxmi B N	Aishwarya V H Chandana H V Chandana VK Ashalatha J
MICROBIOLOGY	Comparative toxicity of crude oil and kerosene on the growth of nitrifying bacteria isolated from soil	Mrs. Vijayadeep.C	Soundaryashree K.R Sruthi.S Vinodhini V Swathi.N Sushma.V Tejashwini. R Vidyashree S Baragi Sumalatha. K.G

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	Hemolytic activity and antimicrobial resistance profiles of bacterial isolates from pet animals	Mrs. Vineetha Shenoy	Meghana B.C Meghana .G Meghana M.V Nandini. C Nisha Singh.A Soundarya M Priyadarshini. B P.Niroja
ZOOLOGY	Biodiversity of Ants in mLAC garden	Ms. Shashikala A. and Anusha V. Udupa	Vandana S. Nayeema Sultana Swetha S. Shalini K.H. Shravani B.R.
	Degradation of plastic by mealworm beetle "Tenebrio molitor"	Mr. Aruna H.K.	Shazia Sultana Ramya V. Usha B.N. Soundarya R. Tanushree P.
	Foraging Strategies of Ants in Response to Variable Food Density and Food Variety.	Ms. Bhavya B.	Shylaja G Meena G Shravani S.B. Sushmitha S. Saniya Jabeen
	Study of behavioral responses of ants :	Mr. Suja K.S. and Chandana C.N.	Shravanti L. Rakshita Rashmika Prema N. Padmashree
	Study of biodiversity of soil organism in three different depths of soil in mLAC garden	Mr. Dr. Shashikala K.B and Dr. Saborni Roy	Nikitha M. Sumati M. Halagi Shaik Farkunda Jabiya Prema D.A. Raksha R.
	Total Projects: 24		126 Students

B. List of Industrial visits undertaken: (2016-17)

Sl.No	Department	Name of place	Date of Visit
1.	Biochemistry	GKVK, Bangalore MVIT, Biofuel Unit, Bangalore. RV Engineering College, Bangalore	2 nd Jun,2016 7 th Jun,2016 21 st May,2016


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2.	Biotechnology	Animal cell culture training in HCG center, Bangalore	9 th -11 th Mar, 2017
3.	Botany	Central Institute for Women in Agriculture, (ICAR-CIWA) Bhubaneswar	15 th Dec, 2016
		Institute of Life Sciences (ILS), Bhubaneswar	16 th Dec, 2016
		National Institute of Science Education and Research (NISER), Bhubaneswar	17 th Dec, 2016
4.	Chemistry	Biofuel unit ,RV College of engineering, Bangalore	12 nd Jun, 2016
5.	Microbiology	Central Institute for Women in Agriculture (CIWA), Bhubaneswar	15 th Dec, 2016
		Institute of Life sciences (ILS), Bhubaneswar	16 th Dec, 2016
		National Institute of Scientific and Educational Research (NISER), Bhubaneswar	17 th Dec, 2016
6.	Zoology	Sir MVIT, Yelahanka, Bangalore	30 th Dec, 2016
		Biofuel facility, GKVK, Bangalore	30 th Dec, 2016
		Karnataka State Biofuel Division, KSCST, Bangalore	22 nd Jun, 2016 and 18 th Jan, 2017

2017-18

Sl.No	Department	Name of place	Date of Visit
1.	Biochemistry	National center for biological science (NCBS), Bangalore	2 nd June 2017
2.	Biotechnology	Vrishabhavathi Sewage treatment plant, Kengeri	Mar 8, 2018
		Biofuel department, GKVK campus	
3.	Botany	CIMAP, Bangalore	6 th Oct. 17
		KMF, Yelahanka	5 th Feb. 17
		Nandi winery, Yelahanka	5 th Feb. 17
4.	Chemistry	Vijayalakshmi Polymers	13 th Jan 2018
		Paramount Nutrition India Pvt. Ltd., Ramanagara	13 th Jan 2018
		Glass Manufacturing factory, Bangalore	27 th Jan 2018
		CIPET, Mysore	6 th Feb 2018
5.	Microbiology	National Centre for Microbial Resource (NCMR), Pune	17 th Jan 2018
		Indian Institute of Science Education and Research(IISER), Pune	18 th Jan 2018
		Vasantdada Sugar Institute, Pune	18 th Jan 2018
		Agricultural farm visit, Nelamangala Bangalore	2 nd Sep 2017


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Department	Date Of Visit	Name Of Place
Biochemistry	11-Mar-2019	Pharma genica , Lakenahalli village, ramnagara dist. , India
Biotechnology	11-Mar-2019	Biofuel department, GKVK campus , Bengaluru , India
		Jagadhamba Biofuel plant, Kanakapura Road , Bengaluru , India
	21-Mar-2019	Mother Diary, Yelahanka , Bengaluru , India
Botany	13-Dec-2018	Vasantdada Sugar Institute , Pune , India
	14-Dec-2018	United Spirits Limited , Baramati , India
	15-Dec-2018	MAPRO Food Factory , Mahabaleshwar , India
Chemistry	21-Mar-2019	CIPET Plastics , Mysore , India
Microbiology	10-Oct-2018	Agricultural farm visits at Nelamangala/ Hassan/ Uttara Kannada/Bangalore Rural/ , Bangalore , India
	27-Dec-2018	Indian Institute Of Sugar Cane ResearchANE MRD Life SCIences LTD , Lucknow , India
Zoology	07-Mar-2019	Field visit to GKVK, IWS, IISc , Bangalore , India
	11-Mar-2019	Biofuel facility, university of Agricultural Sciences, GKVK, , Bangalore , India
		Fisheries research and information centre, Hesarghatta, Bangalore , Bangalore , India
		Pharmagenica Healthcare Pvt. Ltd. , Bangalore , India

2. Name, designation, host institute of guest faculty invited:

2016 - 2017

Sl No	Name of the participating Department	Name & Designation	Host Institute of Guest Faculty	Event
1.	Biochemistry	Dr Hema Arvind, Chief Dietician	M S Ramaiah Superspeciality Hospital, Bengaluru	Women Health awareness program 8 th Feb, 2017
		Dr. Shabeer Moideen Chief Clinical technician	Santhosh Health Care , Bengaluru	Quality control in clinical labs 15 th March, 2017
2.	Biotechnology	Prof.C.D.Prasad Senior Scientist	ISRO, Bengaluru	Guest Lecture on "Space Technology" 23 rd Sept, 2016

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		Dr.Ravikumar Founder & CEO	XCyton diagnostics, Bengaluru	Guest Lecture on “Mentoring the mentors” 4 th Jan, 2017
3.	Botany	Dr.Radhika Venkatesan, Asst. Prof	National Centre for Biological Sciences, Bangalore	Guest Lecture on “Plant host defense mechanism in air” 25 th Feb, 2017
4.	Chemistry	Dr. Shivakumariah Director	KSCST, Bengaluru	“Rain water harvesting and Water conservation” 17 th Jan, 2017
5.	Microbiology	Mr. Mahesh Marketing and Advertising Mrs. Nagaveni Marketing Head	Vijay Karnataka Times Group Eastern Masala Group	Lecture workshop on “ Garden in Hand” 20 th Aug, 2016
6.	Zoology	Dr. Chaitanya Hiremath Scientist	Visiting Scientist, Massachusetts Institute of Technology, and Founder, President and CEO- SealoEarth.org	The BIIG problem- solving method in Science SEALOEARTH: The World Flag 18 th Jul, 2017

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