

Annexure-III (SIBSAGAR COLLEGE)

List of projects assigned to the B.Sc. 6th SEM (Major) Students under DBT Star College Scheme:

Table 1: List of projects undertaken by the 6th Semester students of **Physics Department** during 2019-20:

Name of the Department	Sl No.	Title of Project	Class	Number of Students	Name of Guide
Physics	1	Studies on Photo-catalytic degradation of dye by semiconductor nanoparticles.	VI SEM	1. Gayatri Gogoi 2. Nisha Giri 3. Shamim Akhtar..	Dr Dulen Saikia Priyanuj Kalita
	2	Synthesis of copper nanoparticles by chemical and biological approach.	VI SEM	4. Abhishekh Mozumdar 5. Bhaskar Konwar 6. Deeplu Sonowal	Dr Dulen Saikia Priyanuj Kalita
	3	Synthesis of conducting ink from carbon black and metal nanoparticles.	VI SEM	7. Pragyana Saikia 8. Nilutpol Kalita 9. Lakhya Jyoti Borah	Dr Dulen Saikia Priyanuj Kalita
	4	Optical and structural properties of cooking and black salts; Investigation of the the purity and toxic elements present in the salts.	VI SEM	10. Pratyush Gogoi, 11. Bishal Saikia, 12. Sameer Jyoti Dutta	Dr Dulen Saikia Priyanuj Kalita
	5	Synthesis of Tin-Oxide thin film by CVD technique	VI SEM	13. Abhijit Bora 14. Dhiraj Boruah 15. Sudarshan Borah.	Dr Dulen Saikia Priyanuj Kalita
	6	Synthesis of PbS/PVA nano-composite thin film by spin coating technique.	VI SEM	16. Shrimanta Gogoi 17. Mousham Phukan 18. Pallav Deka	Dr Dulen Saikia Priyanuj Kalita

Table 2: List of projects undertaken by the 6th Semester students of **Chemistry Department** during 2019-20:

Name of the Department	Sl. No.	Title of the Project	Name of Student	Name of Guide
Chemistry	1	Green Synthesis of TiO ₂ and ZnO nanoparticels from waste vegetable extract	Sarbananda Neog	Dr. Nandita Goswami
	2	Green synthesis of TiO ₂ and ZnO nanoparticles using plant extract of "Aloe barbadensis miller"	Pragya Moni Gogoi	Dr. Nandita Goswami
	3	Green Synthesis of TiO ₂ nanoparticels from waste vegetable extract	Abhinandan Neogi	Dr. Nandita Goswami
	4	Organic synthesis of natural Dye	Kaustav Borah	Dr. Pabitra Kalita
	5	Green synthesis of TiO ₂ and ZnO nanoparticles using plant extract of "Aloe barbadensis miller"-	Sanghamitra Dutta	Dr. Nandita Goswami
	6	Organic synthesis of natural Dye	Loknath handique	Dr. Pabitra Kalita
	7	Synthesis of magnetic nanocomposite from solid waste and its application	Mrityunjoy Dey	Dr. Pabitra Kalita
	8	Synthesis of magnetic nanocomposite from solid waste and its application	<i>DebashreeDev</i>	Dr. Pabitra Kalita
	9	Synthesis of TiO ₂ nanoparticles and their applications	Isha Bhattacharyya	Dr. Nandita Goswami
	10	Synthesis of TiO ₂ nanoparticles using green method	Sobina Afrin	Dr. Nandita Goswami
	11	Organic synthesis of natural Dye	Manas Saikia	Dr. Pabitra Kalita
	12	Metal free oxidation of sulfide to sulfoxide for industrial waste water treatment	Debashis saikia	Dr. Paramartha Gogoi
	13	Synthesis of Coumarin Derivatives and Sulfoxides Under Environmentally Benign Conditions	Rajib Gogoi	Ms. Monjumoni Das
	14	Synthesis of Coumarin Derivatives and Sulfoxides	Pallab Neog	Ms. Monjumoni Das

	Under Environmentally Benign Conditions		
15	Extraction of Natural dyes from natural pigments	Pawan Rajak	Mr. Pradip Kr. Goswami
16	Green synthesis of TiO ₂ and ZnO nanoparticles using plant extract of "Aloebarbadensismiller	Tazmin Ara begum	Dr. Nandita Goswami
17	Synthesis of Coumarin Derivatives and Sulfoxides Under Environmentally Benign Conditions	Deepak Chowdhury	Ms. Monjumoni Das
18	Green Synthesis of TiO ₂ nanoparticels from waste vegetable extract	Shyamal Kr Borah	Dr. Nandita Goswami
19	A Green Chemical route for synthesis of TiO ₂ nanoparticle	Nandita Baruah	Dr. Nandita Goswami
20	Organic synthesis of natural Dye	Nayanmoni Baruah	Dr. Pabitra Kalita
21			
22	Synthesis of magnetic nanocomposite from solid waste and its application	Shruti Phukan	Dr. Pabitra Kalita
23	Synthesis of ZnO nanoparticle using green route and its application	Dharitri Chetia	Dr. Nandita Goswami
24	Synthesis of ZnO nanoparticle from waste vegetable peels		Dr. Nandita Goswami
25	Synthesis of magnetic nanocomposite from solid waste and its application	Ashish Bajaz	Dr. Pabitra Kalita
26	Metal free oxidation of sulfide to sulfoxide for industrial waste water treatment	Nirupam Dutta	Dr. Paramartha Gogoi
27	Synthesis of TiO ₂ nanoparticles for application in renewable energy	Shiva Borah	Dr. Nandita Goswami
28	Metal free oxidation of sulfide to sulfoxide for industrial waste water treatment	Robert Sarma	Dr. Paramartha Gogoi
29	Metal free oxidation of sulfide to sulfoxide for industrial waste water treatment	Ongmyat Phukan	Dr. Paramartha Gogoi
30	Synthesis of ZnO nanoparticle from extract of waste vegetable peels	Arnab Protim Gogoi	Dr. Nandita Goswami

Table 3: List of projects undertaken by the 6th Semester students of **Botany Department** during 2019-20:

Department	Sl. No	List/ Name of the Projects undertaken	Class	No of Beneficiaries	Name of the students/Guide
Botany	1	A comparative study on the growth rate of bean (<i>Phaseolous vulgaris</i>) in different soil types	B.Sc. (UG)	03	Atlantina Boruah Pratikksha Handique Subhraneel Dey Guide : Dr. Sangita Phukan
	2	Antibacterial activity of <i>Azeratum conizoides</i> and <i>Leucas aspera</i> against bacteria	B.Sc. (UG)	02	Moin Haque Pranjal Das Guide : Dr. Sangita Phukkan
	3	Determination of soil microbial biomass of <i>Aquilaria agallocha</i>	B.Sc. (UG)	05	Abhijit Gowala Debasish Hazarika Biswajyoti Gogoi Bidisha Borgohain Sangita Dutta Guide : Dr. P.C.Nath
	4	Traditional practices of medicinal plant species and antimicrobial activities of certain priority species of Joysagar, Sivasagar, Assam	B.Sc. (UG)	03	Khirode Kalita Monoram Baruah Sagarikka Deka Guide : Dr. Utpal Dutta
	5	Allelopathy	B.Sc (UG)	04	Ujjal Dutta Snigdha Dutta Rituraj Buragohain Gitimoni Gogoi Guide : Dr. N.J.Borah


Table 4: List of projects undertaken by the 6th Semester students of **Zoology** department during 2019-20

Department	Sl. No.	Title of the Project	Name of Student	Name of Guide
Zoology	1	Study on Vermicomposting Potential of Certain Domestic Food Wastes and their Impact on Plant Growth	Natasha Gogoi	Dr. I. Rahman
	2	Study the antimicrobial activity of different honey types against <i>Escherichia coli</i> , a human pathogenic bacterium	Munmi Borah	Dr. I. Rahman
	3	Prevalence and social determinants of hypertension: (a case sectional	Payal Das and Mousumi Saikia	Dr. Utpal Sarma

		population based survey)		
4		Application of eggs shell as fertilizer and calcium supplement in plant growth	Kaberi Kashyap Hazarika	Dr. J. N. Das
5		Study the effect of plant extracts on human pathogenic bacteria, <i>Escherichia coli</i>	Mridusmita Borah	Dr. I. Rahman
6		To study poultry farms in Sivasagar and Dibrugarh district of Assam	Doli Saikia, Taslina Nasrin and Devajit Kalita	Dr. Chinmoyee Sonowal
7		A comparative study on abundance and density of aquatic insects in two man-made tanks of Sivasagar district	Akash Pratim Chetia and Ujjal Phukan	Dr. Utpal Sarma
8		Influence of vermiwash on growth of certain common vegetable crops	<i>Popir Yein</i>	Dr. I. Rahman
9		Study the Life cycle and Morphology of common vermiworm(s) feeding on certain food wastes and weeds	Nitul Bailung	Dr. I. Rahman
10		To analysis the quality of the water and identification of the aquatic insects of Joysagar tank, Sibsagar	Parthana Dehingia	Dr. Chinmoyee Sonowal
11		Poison gland of <i>Tetradon cutcutia</i> and chemical composition of the poison gland	Siddhartha Borah	Dr. J. N. Das
12		Study of the fish fauna and fishing gears of Gaurisagar area of Sivsagar district, Assam	Puja Das	Dr. J. N. Das
13		Study on Human-Wildlife conflict in certain areas of Sivasagar district of Assam	Nabamallika Sarma	Dr. J. N. Das
14		Influence of water quality on avian diversity in some wetlands of Joysagar areas of Sivasagar District.	Pinchi Gogoi and Tribeni Joradhara	Dr. R. J. Stafford
15		Study the diversity of aquatic birds in relation to mollusca and fish diversity in some wetlands of Joysagar areas of Sivasagar District.	Aindra Daring and Momta Joshi	Dr. R. J. Stafford


 15/07/2020
 Co-ordinator
 DBT Star College Scheme
 Sibsagar College, Joysagar




 Dr. Profulla Ch. Kalita
 Principal & Secretary
 Sibsagar College, Joysagar
 Principal & Secretary
 Sibsagar College, Joysagar