

অসম বিজ্ঞান প্রযুক্তিবিদ্যা আৰু পৰিৱেশ পৰিষদ  
(বিজ্ঞান প্রযুক্তি আৰু জলবায়ু পৰিৱৰ্তন বিভাগ, অসম চৰকাৰ)

**ASSAM SCIENCE TECHNOLOGY AND ENVIRONMENT COUNCIL**  
(Science, Technology and Climate Change Department)

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ASTEC/206/2021-22/1114-1144

Date: 21/07/2022

**NOTICE**

The ASTE Council is pleased to inform that the following projects have been selected for financial support under the “Students’ Science Project” Scheme.

**List of Proposals Selected**

SI No.	Project Title	Leader Name	Guide Name	Department	Amount	University
1	Synthesis, characterization & optical properties of WO <sub>3</sub> nanomaterial	Mr. Samasis Dev Sarma, M. Sc. 4 <sup>th</sup> Semester	Dr. Jitumani Kalita	Physics	10,000/-	Cotton University
2	Designing of variable pulse generator dice using IC555 timer	Mr. Urbismita Thauria, M. Sc. 4 <sup>th</sup> Semester	Dr. Jitumani Kalita	Physics	10,000/-	Cotton university
3	Measurement of effective radium (226Ra) content in coal using solid state nuclear detectors.	Mr. Partha Pratim Deka, M. Sc. 4 <sup>th</sup> Semester	Dr. Debajyoti Barooah	Physics	10,000/-	Cotton university
4	Study of radon exhalation rates from coal using solid state nuclear track detectors	Mr. Ripunjoy Kalita, M. Sc. 4 <sup>th</sup> Semester	Dr. Debajyoti Barooah	Physics	10,000/-	Cotton university
5	Study of radon exhalation rates from rock using solid state nuclear track detectors	Mr. Mousum Rajkhowa, M. Sc. 4 <sup>th</sup> Semester	Dr. Debajyoti Barooah	Physics	10,000/-	Cotton university
6	Measurement of effective radium (226Ra) content in geological samples using track	Mr. Hritik Gogoi, M. Sc. 4 <sup>th</sup> semester	Dr. Debajyoti Barooah	Physics	10,000/-	Cotton university
7	Study of radon exhalation rates from soil using solid state nuclear track detectors	Mr. Manash Pratim Das, M. Sc. 4 <sup>th</sup> Semester	Dr. Debajyoti Barooah	Physics	10,000/-	Cotton university
8	Use of Signal Jammers for various purposes	Debasish Das, B. Tech 6 <sup>th</sup> Semester	D.S. Pegu	Electronics and Telecommunication Engineering	3200/-	Assam Engineering College

9	Gesture Controlled Robotic Arm	Srimanjyoti Dutta, B. Tech 6 <sup>th</sup> Semester	Dr. Navajit Saikia	Electronics and Telecommunication Engineering	10,000/-	Assam Engineering College
10	Animal Detection using Instance Segmentation	Bhaskar Borah, B. Tech 8 <sup>th</sup> Semester	Ankur Jyoti Sarmah	Electronics and Telecommunication Engineering	10,000/-	Assam Engineering College
11	Isolation & Characterization of Potential Antibiotic Producing microbes from Water & Soil samples	Mr. Takam Akash, M. Sc. 2 <sup>nd</sup> semester	Dr. Probin Phanjom	Biosciences	10,000/-	Assam Don Bosco University
12	Ag decorated Zinc Oxide Nano material in Building Materials: Anti-Fungal & Anti-Bacterial Studies	Nishita Mutum, B. Tech 6 <sup>th</sup> semester	Mr. Arnab Kumar Sarkar & Mis Nabanita Daimary	Civil Engineering	10,000/-	Assam Down Town University
13	Environment air quality monitoring using lichens as bioindicators within Tapesia campus, Assam Don Bosco University	Iftiker Hussain Ahmed, M. Sc. 2 <sup>nd</sup> semester	Dr. Vedant Vikrom Borah	Life Science	10,000/-	Assam Don Bosco University
14	Utilisation of Waste Plastic in Bitumen	Nishita Buragohain, B. Tech, 8 <sup>th</sup> semester	Dr. Shasanka Sekhar Borkotoky	Chemical Engineering	9,500/-	Assam Engineering College
15	Metal free Synthesis of Formamidine from N,N Dibromoaryl sulfonamides & Formamides	Ms. Nirupama Rabha, M.Sc 4 <sup>th</sup> semester	Prof. Prodeep Phukan	Chemistry	10,000/-	Gauhati University
16	Status & distribution pattern of multiple owl species assemblage using active search & Citizen Science approach in Upper Brahmaputra Valley	Abhinab Kumar Hajong, M.Sc. 2 <sup>nd</sup> semester	Dr. Samrat Sengupta	Zoology	10,000/-	Debraj Roy College
17	Transition Metal free Synthesis of Guanidine by a synchronized coupling of Isonitrile, N,N Dibromoaryl sulfonamides & hydrazine	Mr. Pankhi Neog, M. Sc. 4 <sup>th</sup> semester	Prof. Prodeep Phukan	Chemistry	10,000/-	Gauhati University
18	Silver Acetate Catalyzed synthesis of Cyclic Guanidine from Isonitriles & N,N-Dibromoaryl sulfonamides	Ms. Dikshita Goswami, M. Sc. 4 <sup>th</sup> semester	Prof. Prodeep Phukan	Chemistry	10,000/-	Gauhati University
19	Production of eco-friendly low-cost materials from biowaste, determination of their surface charge & specific ion effect study by simple pH titration	Emidaka Dkhar, M.Sc. 2 <sup>nd</sup> semester	Dr. Jyotirmoy Sarma	Chemistry	10,000/-	Assam Don Bosco University

20	Machine learning & IoT Based Advanced Farming Management System	Arunabh Bora, B.Tech 8th semester	Prof. Kandarpa Kumar Sarma	Electronics & Communication Engineering	10,000/-	Gauhati University
21	Few shot Continual Learning in Low Labeled data scenario	Pankhi Kashyap, B.Tech 8th semester	Prof. Kandarpa Kumar Sarma	Electronics & Communication Engineering	10,000/-	Gauhati University
22	Forest Rescue System	Vishal Agarwal, B.Tech 8th semester	Prof. Kandarpa Kumar Sarma	Electronics & Communication Engineering	10,000/-	Gauhati University
23	Nanotechnology based gas sensor	Diganta Sarmah, B.Tech, 8th semester	Dr. Rashi Borgohain	Electronics and Telecommunication Engineering	10,000/-	Assam Engineering College
24	Development of a novel formulation with an incorporation of peperomia Sp. extract for burn wound healing applications	Ms. Ambika Sharma, M. Pharma 6 <sup>th</sup> Semester	Ms. Piyali Dey	Pharmaceutics	10,000/-	Assam Down Town University
25	Design & fabrication of Bamboo Fibre Reinforced Household Tiles embedded with Fish scale as Natural Filler	Bishal Banik, B. Tech 6th semester	Roktutpal Borah & Pulakesh Chetia	Mechanical Engineering	10,000/-	Assam Down Town University
26	Synthesis & Structural Topologies of Biologically relevant	Shristi Bharadwaj, MSc 4th semester	Prof. Manjit Kr Bhattacharyya	Chemistry	10,000/-	Cotton University
27	Crystal Engineering & Antiproliferative Evaluation of Polycarboxylato based Coordination Compounds	Navanil Pathak, M.Sc. 4th semester	Prof. Manjit Kr Bhattacharyya	Chemistry	10,000/-	Cotton University
28	Synthesis & Structural Investigations & Anticancer relevant Coordination Compounds of Transition Metals	Monalina Phukan, M.Sc. 4th semester	Prof. Manjit Kr Bhattacharyya	Chemistry	10,000/-	Cotton University
29	Design & develop a low-cost total cross Tied Connected PV Modules	Vianneystar Sun, B.Tech, 8 th semester	Dr. Papul Changmai	Electrical & Electronics Engineering	10,000/-	Assam Don Bosco University
30	Effect of Encroachment on the Diversity of avian fauna in Amchang wild- life sanctuary, eastern fringe of Guwahati, Assam	Biswajyoti Singha, B. Sc 4th semester	Dr. Nilutpal Mahanta	Zoology	10,000/-	Assam Don Bosco University
31	3D printing of quick response-coded films (ORF) for scalable batch tracking and prototype recognition	Ms. Thotapalli Lahari M. Sc Final Year	Dr. Subham Banerjee	Pharmaceutics	10000/-	NIPER