

অসম বিজ্ঞান প্রযুক্তিবিদ্যা আৰু পৰিৱেশ পৰিষদ
(বিজ্ঞান আৰু প্ৰযুক্তি বিভাগ, অসম চৰকাৰ)

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ASSAM SCIENCE TECHNOLOGY AND ENVIRONMENT COUNCIL

(Department of Science & Technology, Govt. of Assam)

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ORDER

The following list of projects has been shortlisted for final presentation after Pre-Screening Committee Meeting held on 18th June, 2021 at ASTEC.

Scheme: “S&T Institutional and Human Capacity Building”, S&T Division, ASTEC

SL.NO.	TITLE OF THE PROJECT	INVESTIGATOR/ ORGANISATION
1.	Development of nano-phytochemicals targeting the cellular processes of cancer in NE region" under S&T Institutional and Human Capacity Building	Dr. Dibashree Tamuli, PhD Assistant Professor, Department of Zoology, Nalbari College, Assam-781334
2.	Development of a novel biocompoite thermal energy storage material and its applications in isothermal drying of agricultural products and passive cooling of building	Pankaj Kalita, PhD Assistant Professor, Centre for Energy, Indian Institute of Technology, Guwahati, Guwahati - 781 039
3.	Design and develop of a solar-powered pottery Chaak	Prof. Sashindra Kumar Kakoty Deputy Director, IIT Guwahati Professor, Mechanical Engineering & Centre for Rural Technology IIT Guwahati
4.	In silico and in vitro Identification of small molecule prolyl hydroxylase-2 activator for modulation of hypoxia inducible factor-1 α signaling in estrogen receptor + breast cancer	Dr. Manjari Singh Assistant Professor Department of Pharmaceutical Science Assam University (A Central University), Silchar, Assam, Pin: 788 011
5.	Sugarcane Peeling Machine	Believerson Daimari Vill. Sonai Bathabari, P.O., Khusurabari (Habi), District: Udalguri, Assam. PO: 784509
6.	Mathematical Modelling of Infectious Diseases	Dr. Manash Jyoti Borah Assistant Professor, Dept. of Mathematics, Bahona College, P.O: Bahona, Jorhat, Pin: 785101
7.	Development of novel cellulose-ceramic nanofiber based biodegradable polymer electrolytes for Li-ion batteries	Dr. Madhuryya Deka Assistant Professor, Dept. of Physics, Kaziranga University, Jorhat, Assam, 785006
8.	Development of nano-biopesticides by encapsulation of nanoparticles (silver, gold, copper and zinc) for smart delivery in agriculture	Pranjal Kr Kaman Junior Scientist (Plant Pathology), AICRP On MAP & B Department of Plant Pathology Assam Agricultural University, Jorhat

9.	Innovation of new technology for recycling waste paper as sustainable growing media for household garden and its promotion among rural people for small scale entrepreneurship development	Dr. Debashree Kakati Assistant Professor, Department of Botany, Sipajhar College, Sipajhar, Darrang, Assam, 784145
10.	Surface modification on Muga Silk of Assam for enhancement of its durability and self-cleaning property	Dr. Lakshmi K. Singh Assistant Professor, Department of Physics, ADP College, Nagaon-782002, Assam
11.	Development of Climate-Smart Village in the vulnerable area of Lakhana Bondha in Kaliabor sub-division	Dr. Ranjan Das Professor, Department of Crop Physiology, Assam Agricultural University, Jorhat
12.	Technology development of vinegar production from traditional fruits Leteku (<i>Baccaurea motleyana</i>), Kordoi (<i>Averrhoa carambola</i>), Poniyal (<i>Flacourtia jangomas</i>) of Assam	Utpal Bora Professor of Biosciences and Bioengineering, Department of Biosciences and Bioengineering, Indian Institute of Technology Guwahati
13.	Development of a multiplex real time PCR (mRT-PCR) assay for simultaneous detection of Swine Fever, African swine fever, and Porcine Reproductive and Respiratory Syndrome Virus	Dr. Rupam Dutta, Assistant Professor, Department of Animal Biotechnology College of Veterinary Science, Assam Agricultural University Khanapara, Guwahati-22
14.	Constructed Wetland Systems for Wastewater Management	Dr. Sanghita Dutta Postdoctoral fellow Assam Science and Technology University
15.	Nanocellulose reinforced sericine-polysaccharides composite films for food packaging applications	Dr. Gitanjali Majumdar Associate Professor Department of Chemistry Assam Engineering College, Guwahati
16.	Development of Grain Bins with Storage Pests Control with Modified Atmosphere at village level	Mr. Amar Jyoti Chamuah (B.Sc. Agriculture, M.Sc. Sustainable Development), Grameen Sahara, Chhaygaon
17.	Generation of multivalent vector vaccine against lumpy skin disease in cattle and evaluation of its immunogenic potency	Dr. Biswajyoti Borah Assistant Professor, Department of Animal Biotechnology, College of Veterinary Science, Khanapara, Guwahati-22
18.	Design and Development of a Driver Drowsiness Detection System based on Physiological Approach	Dr. Syed Sazzad Ahmed Assistant Professor, Dept. of Computer Science & Engineering, School of Technology, Assam Don Bosco University
19.	Characterization of HSP 70 and HSP 90 genes and their association with performance and thermo-tolerance traits of goats under tropical condition of Assam	Dr. Jumi Dutta Assistant Professor, Department of Veterinary Biochemistry, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-781022
20.	A Study to Assess the Effectiveness of Cryotherapy on prevention of subjective and	Darshana Hazarika, Tutor, Department of Community Health

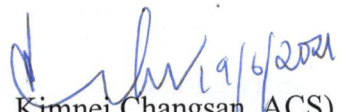
	objective symptoms of Chemotherapy Induced Peripheral Neuropathy among the Patients Receiving Paclitaxel in Nemcare Hospital, Guwahati	Nursing, College & School of Nursing, NEMCARE Foundation, Guwahati-781125, Assam
21.	Development and fabrication of PV measurement kit enriched with the capability to simulate all kinds of atmospheric effects	Dr. Papul Changmai Assistant Professor. (Senior) Department of Electrical and Electronics Engineering. School of Technology, Assam Don Bosco University. Airport Road, Azara. Guwahati. 781017
22.	Design and development of a low cost computerized garment cutting machine	Dr. Riku Chutia Asst. Professor, Dept. of Electronics and Communication Engineering, Tezpur University, Tezpur
23.	Design and development of portable low cost induction heating furnace for bell metal industry of Assam	Dr. Bipul Das Department of Mechanical Engineering, Room No. ME - 1108, Mechanical Engineering Building, National Institute of Technology, Silchar, Assam - 788010
24.	Design and fabrication of the low cost solar powered tea - processing unit for small scale tea planters in Assam	Dr. Poppy Hazarika Assistant Professor, Department of Physics, Duliajan College, Duliajan: 786602, Assam
25.	Intelligent Video Analytics	Basab Das, Assistant Professor, Dept. Of ECE, GIMT, Ghy
26.	Automated Tea Leaves Separator for Tea Factories	Dr. Bismita Choudhury, Assistant Professor, Computer Science & Engineering Programme, Assam down town University, Panikhaiti, Guwahati 781026
27.	Development of a nanotechnology based system for estimating and monitoring pesticide level in tea leaves	Prof. Sunandan Baruah, Dean, Faculty of Engineering and Technology, Assam down town University, Panikhaiti, Guwahati 781026
28.	Performance Assessment of non structural slope stabilizers for an active cut slope in Guwahati area	Dr. Ritu Raj Nath, Assistant Professor, Civil Engineering Programme, Assam down town University, Panikhaiti, Guwahati 781026
29.	Development of a 3-wheel vehicle with novel electronic support	Mr. Manash Jyoti Borah, Assistant Professor, Mechanical Engineering Programme, Assam down town University, Panikhaiti, Guwahati 781026
30.	Development of Robotic arm for kitchen aid	Dr. Riku Chutia, Asst. Professor, Dept. of Electronics and Communication Engineering, Tezpur University, Tezpur, Assam
31.	Development of paper-based fluorescence microfluidic device for simultaneous detection of multiple metal ions with the aim of drinking water quality monitoring	Dr Sonit Kumar Gogoi, Associate Professor, Department of Chemistry, Gauhati University
32.	Development of low cost tools to improve health of fishes to be used in fish farming	Karen Das, Assistant Professor,

		Department of Computer Science & Engineering, School of Technology of Assam Don Bosco University, Azara, Guwahati – 781017, Assam
33.	Improvement of base course performance of rural access roads using MICP– A cost effective green technique	Dr. Abhijit Deka, Assistant Professor, Department of Civil Engineering, Central Institute of Technology, Kokrajhar, BTAD, Assam 783370
34.	Design and Development of a Low Cost Mobile Ventilator	Dr. Tridip Jyoti Borah, Assistant Professor, Anesthesiology, Critical Care, Pain & Palliative Medicine, Dr. Bhubaneswar Borooah Cancer Institute, Guwahati
35.	Study and development of a low cost image based analytical platform for detection of arsenic in ground water	Dr. Anindita Bora, Dept of ECE, GIMT, Azara
36.	Design and Development of Low-Cost Movable Pedal Operated Banana Plantain Shredding Machine	Er. Amrita Teronpi Assistant Professor, Department of Agricultural Engineering, Assam Agricultural University, Jorhat
37.	Drone Based Crop Monitoring System using Multispectral Imagery	Mriganka Gogoi Asst. Professor, Dept. of ECE, SoT Assam Don Bosco University, Azara Ghy-781017
38.	A system design and research on traditional crafts for the urban accessory market using weaving and braiding techniques by extraction of natural fibers from water hyacinth	Sumit Baruah, Designer and Co Founder, Unisenze; M.Des, Communication Design, National Institute of Design, Gandhinagar, Gujarat B.E., Chemical Engineering, Assam Engineering College
39.	Complete machinery for bamboo shoot processing unit: Washing Machine, Mixing Machine & Solar Dryer	Pranjal Kr. Goswami Innovator, Jeerani, H. No.2, Pragjyotish Nagar, Jalukbari, Ghy 14
40.	Digitization and archival of public domain assamese text in unicode format and formation of a corpus for automated ocr assamese text correction	Dr. Anjana Kakoti Mahanta, Professor and Head, Department of Computer Science, Gauhati University

(Smti. Kimnei Changsan, ACS)
Director, ASTE Council

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