

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

ASSAM SCIENCE TECHNOLOGY AND ENVIRONMENT COUNCIL

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

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The following list of projects has been shortlisted for final presentation after Pre-Screening Committee Meeting held on 4th May, 2019 at ASTEC.

Scheme: **INNOVATION, TECHNOLOGY GENERATION & AWARENESS (ITGA)**

SL.NO.	TITLE OF THE PROJECT	INVESTIGATOR/ ORGANISATION
1.	Design of smartphone platform fluorescence microscopic system for resource poor regions	Pabitra Nath Associate Professor, Department of Physics, Tezpur University, Napaam, Dist. Sonitpur 784028, Assam
2.	Innovative Sprayer Machine for farmers	Bhabesh Ch. Das Vill & P.O. Dadara, Hajo, Kamrup, Assam 781104
3.	Incense stick making machine	Bhabesh Ch. Das Vill & P.O. Dadara, Hajo, Kamrup, Assam 781104
4.	Garbage cleaning set	Bhabesh Ch. Das Vill & P.O. Dadara, Hajo, Kamrup, Assam 781104
5.	An aid for curing Hemiplegia, paralysis of half of the body	Durga Prasad Nath Vill: Mayengia, P.O.: Charaibaahi, Morigaon, Assam 782106
6.	Medicated skin patch to mitigate destructive pulmonary tuberculosis in six districts of Assam	Subham Banerjee, Ph.D. Assistant Professor, Dept. of Pharmaceutics, National Institute of Pharmaceutical Education and Research (NIPER), Guwahati -781125, Assam
7.	Aluminum-ion based sustainable electricity storage and generation device from waste tea leaves derived porous graphitic carbon	Shyamal Kumar Das Assistant Professor, Department of Physics, Tezpur University, Tezpur-784028
8.	An Underground Sediment Deposit Multi-Stage Water Filter	Dharmananda Bormudoi Vill- Balitika, P.O.- EllengiSatra Dist- Biswanath, Assam 784168
9.	Design and fabrication of small scale organic waste shredder machine	Dr. Arpan Das Assistant Professor, Department of Mechanical Engineering, Assam Down Town University
10.	Design and development a prototype for commercial, cost-effective, multi-product plant for "Extraction of essential oil by steam distillation for smaller farmers and entrepreneurs of Assam	Dr. Dilip Sarma, Indigenous Assamese Women's Identity, H.No. 5, Padumpukhuri, Uzanbazar, Guwahati-781001
11.	Study of anticancer potential of traditionally used ants venom from North East India and its associated social practices	Dr. Namram Sushindrajit Singh Assistant Professor, Department of Zoology, Cotton University, Guwahati-781001

12.	Conceptualization, Design & Development of a specialized pedal propelled vehicle for safe transportation of patients to the nearest health centre in rural areas of Assam considering ergonomic & usability factors. (With a special focus on safe transportation of pregnant women)	Dr. Vikramjit Kakati, CEng (IEI, India), AFIAP (Belgium), Ph.D. (IIT-G), Convenor and Secretary, Board for Research, Innovation & Consultancy. Associate Professor of Mechanical Engineering, Administrative Officer (School of Technology), Assam Don Bosco University, Azara, Airport Road, Guwahati - 781017, Assam
13.	Design of an automated tool for verification of purity of Muga Silk	Dr. Minakshi Gogoi Asst. Professor, Department of Computer Science and Engineering, GIMT, Hathkhowapara, N.H. 37, Azara, Guwahati – 781017
14.	Validation of inexpensive peptide based diagnostic kit for early detection of Urinary Tract Infections	Dr. Swapnil Sinha Associate Professor, Department of Biochemistry, Assam Downtown University, Guwahati
15.	Design and Development of a skull-cutter for autopsy	Sharmistha Banerjee Assistant Professor, Department of Design, IIT Guwahati, Guwahati-781039
16.	Designing and Developing VegiBot - The Computer Vision Assisted AgroBot for Harvesting Vegetable	Dr. Gypsy Nandi (Principal Investigator), Dr. Rupam Kumar Sharma (Co-Investigator), Assistant Professor (Sr.), Department of Computer Science & Engg and IT, School of Technology, Assam Don Bosco University, Azara, Airport Road, Guwahati - 781017, Assam
17.	Design and fabrication of low cost electro non-enzymatic glucose bio sensor for diabetic patients using hybrid gold complexes/ nanomaterials	Dr. Sontara Boruah Asst. Professor, Department of Chemistry, Assam Don Bosco University Tapesia, Kamarkuchi, Assam 782402
18.	Coherent narrow band light source based oblique incidence reflectometry for rapid meat quality assessment	Dr. Ankur Gogoi, Assistant professor, Department of Physics, Jagannath Barooah College, Barpatra Ali, Jorhat-785001
19.	ACDS- Automotive Cognitive Driver Support	Gitartha Nath C/O: Akshoy Kumar Nath, H. No.-44, Durgasorobar, Kamakhya Gate, P.O.: Bharalumukh, Guwahati, Kamrup(M), Assam Under Ganga Krishna Educational Trust, Khanamukh, Check Gate, West Jalukbari, Guwahati-14
20.	Taping Technology	Koushik Sen Gupta Associate Professor & Faculty in-charge of PG (Pharmaceutics), Faculty of Pharmaceutical Sciences, Assam down town University, Guwahati-26
21.	Nanotechnology based solar powered fruit/vegetable dryer	Dr. Sunandan Baruah Director, Center of Excellence in Nanotechnology, Professor, Department of Electronics and Communication Engineering, Chairperson, Board for Research, Innovation and Consultancy, Co-ordinator, Intellectual Property Right Cell, Assam Don Bosco University, Azara, Guwahati 781017

22.	Low-cost, domestic, efficient water filter model using indigenous raw materials	Dr. Deepmoni Deka Technical Officer Gr-I, Centre for the Environment, IIT Guwahati, Guwahati-781039, Assam
23.	Development of a battery operated paddy transplanter for small farmers	Bhaskarjyoti Chamuah H/N-18, College Road, Bylane-II, Bongaon, Beltola, Guwahati-781028
24.	Production and commercialization of high nutrient density mushroom by utilizing non-conventional wastes	Dr. Duralv Nr. Singha Asst. Professor, Dept. of Botany, Dakshin Kamrup College, Mirza-781125
25.	Flexible housing in flood affected areas	Sanjib Sabhapandit c/o Vibgyour Enterprise, Industrial Area, Amingaon, North Guwahati-781031
26.	Development and evaluation of herbal anti-arthritic gel	Bapan Banik Convenor (REDIMAP-2018, REDIMAP-2019), Assistant Professor, Dept. of Herbal Sc. and Technology, A.D.P. College, Nagaon, Assam-782002
27.	Model Mechano - Biological process of banana pseudo-stem retting for development of handmade paper	Mahesh Chandra Bora Director, Elrhino Eco Industries Pvt. Ltd., Guwahati Residential add: 'Prabhakar', H.No.2, Byelane 2, K.P. Barua Road, Krishna Nagar, Chandmari, Guwahati-781003
28.	Solar Thermal Induction for Emission Abatement and Pollution Reduction from Open Agro-waste Burning in Majuli, Assam	Dr. Dipayan Dey Chairman, South Asian Forum for Environment[SAFE], Regional Office: 20 Naharani Path, Hatigaon, Guwahati, Assam
29.	Convert a specially designed crutch into a simple sitting chair by just adjoining the pair of crutches together	Raja Sarkar Ward No.8, Netaji Road, P.O.-Dhekiajuli, Dist. Sonitpur, Assam, 784110
30.	Drainage problem of Guwahati city	Samijul Haque City Project Officer, SBM(U) Kokrajhar Municipal Board C/O- Samsul Haque Vill- Khatabari, Ward No. 1, Nalbari Town, P.O.- Nalbari, Dist-Nalbari, Assam, Pin-781335

Director
ASTE Council

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