



বাংলাদেশ  
বিশ্ববিদ্যালয় মঞ্জুরী কমিশন

# বাংলাদেশ বিশ্ববিদ্যালয় মঞ্জুরী কমিশন

University Grants Commission of Bangladesh

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বাংলাদেশ বিশ্ববিদ্যালয় মঞ্জুরী কমিশনের রিসার্চ সাপোর্ট এন্ড পাবলিকেশন ডিভিশনের বিজ্ঞান ও প্রযুক্তি শাখার প্রকৌশল বিজ্ঞান (অন্যান্য) উপ-শাখায় ২০২১-২২ অর্থবছরে প্রাপ্ত মোট ২৮টি গবেষণা প্রকল্প প্রস্তাব বিশেষজ্ঞ কর্তৃক মূল্যায়ন করা হয়। তন্মধ্যে ২৩টি গবেষণা প্রকল্প (কমিশন কর্তৃক নির্ধারিত সূচকের ভিত্তিতে) চূড়ান্ত অনুমোদন দেয়া হয় এবং ০৫ টি প্রকল্প প্রস্তাব বাতিল করা হয়। চূড়ান্ত অনুমোদিত ২৩টি ও অননুমোদিত বা বাতিলকৃত ০৫টি গবেষণা প্রকল্পের বিবরণ:-

ক্রমিক নং	গবেষণা প্রকল্পের শিরোনাম	প্রকল্প পরিচালকের নাম ও ঠিকানা	মন্তব্য
1.	Green transformation of hazardous tannery solid waste to bio-organic fertilizer: A circular economy solution	Dr. Mohammed Mizanur Rahman Professor and Director, Institute of Leather Engineering and Technology, University of Dhaka	অনুমোদিত
2.	Valorization of Mixed Office Wastepaper by Producing Nanocellulose for Sustainable Packaging Application	Dr. Khandoker Samaher Salem Assistant Professor Dept. of Applied Chemistry and Chemical Engineering, Faculty of Engineering and Technology, University of Dhaka Dhaka.	অনুমোদিত
3.	Adsorption of mixture of dyes from wastewater: a theoretical study with practical application	Prof. Dr. Engr. Md. Akhtarul Islam Dept. of Chemical Engineering and Polymer Science, Shahjalal University of Science and Technology, Sylhet.	অনুমোদিত
4.	Synthesis and characterization of transitional metal carbide based MXene	Dr. Md. Zaved H. Khan Associate Professor and Chairman Dept. of Chemical Engineering Jashore University of Science and Technology Jashore.	অনুমোদিত
5.	Hydrogenation of CO2 over silicon based photoelectrocatalyst	Dr. Md. Aminul Islam Associate Professor, Department of Petroleum and Mining Engineering, Jashore University of Science and Technology, Jashore, Bangladesh.	অনুমোদিত
6.	Comparative study on Undoped and Ag-doped ZnO nanoparticles synthesized by Green Approach.	Dr. Md. Arefin Kowser Professor & Head, MME Dhaka University of Engineering & Technology (DUET), Gazipur, Gazipur-1700, Bangladesh.	অনুমোদিত

7.	Preparation of visible light activated photocatalyst by hydrothermal method for photocatalytic degradation of organic dyes	Prof. Dr. Md. Tamez Uddin Department of Chemical Engineering and Polymer Science, Shahjalal University of Science and Technology, Sylhet.	অনুমোদিত
8.	Development and characterization of Biodegradable food packaging composite film for industrial application	Prof. Dr. Wahiduzzaman Department of Food Engineering and Tea Technology Shahjalal University of Science and Technology Sylhet-3114, Bangladesh.	অনুমোদিত
9.	Development of biosensor for urinary tract infection caused by bacterial pathogens	Dr. Md. Ikram Hossain Lecturer, Dept. of Chemical Engineering Department of Chemical Engineering, Jashore University of Science and Technology	অনুমোদিত নয়
10.	Quality parameters and technological properties of frozen cooked noodles enriched with various proteins	Kamrunnaher Monalisa Assistant Professor Department of Food Engineering and Tea Technology Shahjalal University of Science and Technology Sylhet-3114, Bangladesh	অনুমোদিত
11.	Processing of Jackfruit Juice Powders by Microwave Assisted Foam Mat drying: Studies on its drying kinetics, nutritional quality, and storage stability	Dr Md Zohurul Islam Associate Professor Department of Food Engineering and Tea Technology, Shahjalal University of Science and Technology, Sylhet-3114	অনুমোদিত
12.	Study on chemical composition of available potato varieties in Bangladesh enhancing non enzymatic browning during industrial processing	Prof. Dr.G.M. Rabiul Islam Department of Food Engineering and Tea Technology Shahjalal University of Science and Technology Sylhet-3114, Bangladesh	অনুমোদিত
13.	Short-Term Electrical Load Forecasting for Entire Bangladesh using Artificial Neural Network	Dr. Md. Monirul Kabir Professor Department of Electrical & Electronic Engineering Dhaka University of Engineering & Technology (DUET) Gazipur-1700, Bangladesh.	অনুমোদিত নয়
14.	Preparation of Melt-Electrospun Polyolefin Nanofiber for Biomedical Applications	Dr. Mohammad Zakaria Associate Professor, Department of Textile Engineering, DUET, Gazipur; Gazipur-1707	অনুমোদিত



15.	Solvent free mechano-chemical approach towards manganese dioxide cathode for aqueous rechargeable zinc ion batteries	Dr. Parbhej Ahamed Professor, Department of Chemistry Khulna University of Engineering & Technology (KUET) Khulna-9203, Bangladesh	অনুমোদিত
16.	Fabrication of zinc oxide nanoparticle reinforced grapheme/waste buffing dust based composite insole: An approach for waste management	Dr. Md. Elias Uddin, Assistant Professor Department of Leather Engineering Khulna University of Engineering & Technology University of Engineering & Technology (KUET), Khulna-9203	অনুমোদিত
17.	Hydrothermal synthesis of Mxene loaded Graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) for Photocatalytic degradation of dyes	Dr. Md Mahfuzur Rahman Assistant Professor Department of Industrial and Production Engineering (IPE), JUST-7408.	অনুমোদিত
18.	Design of Compact Multiband Implantable Antenna for IoT-based Healthcare	Dr. Md. Faruque Hossain Professor Dept. of Electronics and Communication Engineering Khulna University of Engineering & Technology Khulna 9203	অনুমোদিত
19.	Development of Zero Waste Management System using Microwave Sensor and IoT Based Smart Garbage Bin	Md. Naimur Rahman Associate Professor Department of Electrical and Electronics Engineering Faculty of Computer Science and Engineering Patuakhali Science and Technology University (PSTU). Dumki, Patuakhali-8602	অনুমোদিত
20.	Analysis of the photocatalytic properties of two dimensional ZnO/SiC van der Waals heterobilayer for water splitting applications	Dr. Md. Rasidul Islam Assistant Professor Department of EEE, Bangamata Sheikh Fojilatunnesa Mujib Science & Technology University, Jamalpur- 2012	অনুমোদিত
21.	Development of flame-retardant fabric treated by banana saps extract and phytic acid: An eco-friendly concept	Tarikul Islam Assistant Professor Department of Textile Engineering Jashore University of Science and Technology, Jashore-7408, Bangladesh	অনুমোদিত
22.	Physical, Mechanical and thermal properties of <i>Sesbania bispinosa</i> fibre reinforced epoxy composite: Effect of chemical treatment and fibre length.	Abu Yousuf Mohammad Anwarul Azim Department of Textile Engineering DUET, Gazipur-1707	অনুমোদিত

23.	A first-principles study of the doped CNTs under electric field and hydrostatic pressure for highly conductive fibers and thermoelectric devices	Md. Mafizul Islam Assisatant Professor Surma-06, Bangladesh Textile University Residential Area-1, Tejgaon Industrial Area, Dhaka-1208.	অনুমোদিত
24.	Relay-based cooperative drug delivery using molecular communication	Dr. Tania Islam Assisatant Professor, Department of Computer Science and Engineering, University of Barishal, Barishal	অনুমোদিত নয়
25.	Windowing Effect on Speech Enhancement for Real World Applications	Dr. Md. Saifur Rahman Associate Professor Dept. of Information and Communication Technology, Comilla University, Cumilla.	অনুমোদিত
26.	National Strategy on Blockchain Technology towards Enabling Trusted Digital Economy in Bangladesh	Dr. Md. Mizanur Rahoman Associate Professor Head of the Department Department of Computer Science and Engineering Begum Rokeya University, Rangpur, Bangladesh.	অনুমোদিত নয়
27.	<i>Controlling of combustion in a vented cavity</i>	Dr. Nepal Chandra Roy Department of Mathematics University of Dhaka	অনুমোদিত
28.	Site Selection for Disposal of Intermediate and High Level Nuclear Waste by Analytical Hierarchy Process (AHP) and Fuzzy Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) Methods	Dr. Afroza Shelley Associate Professor Department of Nuclear Engineering Faculty of Engineering & Technology University of Dhaka, Dhaka-1000	অনুমোদিত নয়