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- ➔ **PI-108: DIMENSIONAL STABILITY OF FLY ASH CONCRETE UNDER FREEZE-THAW ACTION IN SALINE WATER**
Md. Moinul Islam and Md. Saiful Islam
- ➔ **PI-117: PROSPECT AND FUTURE OF SOLAR DRYER IN BANGLADESH**
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- ➔ **PI-160: THE PROSPECT OF ‘SUSTAINABLE ENERGY’ IN BANGLADESH**
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- ➔ **PI-229: IMPROVEMENT OF PLASTICITY INDEX VALUE OF SEWLLING CLAY SOIL BY LIME STABILIZATION**
Mohammad Imran Hossain, Asaduzzaman Khan, Md. Hafizul Haque and Sultan Mohammad Ferooq
- ➔ **PI-233: SILENT KILLING THROUGH exposure to HEALTHCARE WASTE UNDER THE CURRENT MANAGEMENT PRACTICES IN CHITTAGONG**
Ohidul Alam, Mohammed Saleh Uddin and Mohammad Mosharraf Hossain
- ➔ **PI-237: MARINE ENVIRONMENT AND ITS ILL EFFECTS ON STRUCTURAL CONCRETE**
Sabrina Islam, Md. Moinul Islam and Md. Saiful Islam
- ➔ **PI-238: FEW ASPECTS OF STRUCTURAL CONCRETE IN ACIDIC ENVIRONMENTS**
B.C. Mondal, Sabrina Islam and M.S. Islam

- ➡ **PI-259: SUSTAINABLE SOLUTION OF SOIL POLLUTION DUE TO ACID RAIN: MONGLA PORT INDUSTRIAL AREA, BANGLADESH.**
Sanjida Khair and Sm. Arifur Rahman

Technical Session – III (D): Mechatronics-II

- ➡ **PI-107: MAKING A MULTIFUNCTIONAL TIME SWITCH**
Tushar Ahmed, Sheikh Ziaur Rahman and Mohammad Kamrul Islam
- ➡ **PI-119: DESIGN AND PERFORMANCE EVALUATION OF LOW COST ONE DIMENSIONAL DIGITAL FLUID FLOW METER**
Muhammad Ahsan Ullah, Md. Shamsul Alam and Ali Mohammed Jobayer
- ➡ **PI-127: MOTION CONTROL OF A MAGNETICALLY SUSPENDED OBJECT BY PD CONTROLLER**
Md. Emdadul Hoque, Avijit Sarker and Monjur Mourshed
- ➡ **PI-150: DESIGN AND PERFORMANCE EVALUATION OF AN AUTOMATIC INDOOR TEMPERATURE CONTROL SYSTEM**
Md. Hasibul Jamil, Rakesh Ghosh and Md. Tamjid Hossain
- ➡ **PI-164: DESIGN AND IMPLEMENTATION OF A CENTRAL INTELLIGENCE SYSTEM USING COUNTER SENSING**
Md. Masudur Rahman, Md. Kamrul Islam, Banytosh Mazumde and Prasanjit Das
- ➡ **PI-166: NATURAL GAS PREPAID DIGITAL GAS METER**
S Dewanjee, M T Islam, S C Banik, H Deb4 and M R Islam
- ➡ **PI-172: DEVELOPMENT OF AN AUTOMATIC COLOR SORTING MACHINE ON BELT CONVEYER**
Sattom Halder, Md. Kamrul Islam, Mahmood Sabria Chowdhury and S. C. Banik
- ➡ **PI-183: RFID BASED ROOM AUTOMATION**
M. S. Alam, M. W. Alam and T. Sultana
- ➡ **PI-279: DOCINFO IT'S ALL ABOUT HEALTH**
R Islam, H Adnanul , H M Ariful and M S Rahman
- ➡ **PI-287: DESIGN AND IMPLEMENTATION OF A NAVIGATION SYSTEM FOR VISUALLY IMPAIRED PERSON**
C. K. Das, Lanin Tripura Dhamai and Shohidul Islam
- ➡ **PI-296: MICROCONTROLLER BASED INDUSTRIAL ELEVATOR WITH EARTHQUAKE SAFETY**
Sayed Sanwar Hossain Shimul, S M Humayun Kabir and Asif Rezwana
- ➡ **PI-297: DEVELOPMENT OF A REMOTE CONTROL SYSTEM FOR AN UNMANNED VEHICLE USING MOBILE PHONE BASED NETWORK.**
Md. Syed Ali Molla, Md. Abdullah Al Mamun, Md. Abdul Alim and G.M. Sultan Mahmud Rana

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- ➔ **PI-051: CONSTRUCTION OF A SOLAR POWERED PORTABLE REFRIGERATOR**
Adnan Mohammad Tanveer, Md. Zahid Hasan and Md. Asad Rahman
- ➔ **PI-069: CONSTRUCTION AND PERFORMANCE TEST OF A SOLAR POWERED ATTIC VENTILATION SYSTEM**
Md. Hasan Ali, Kazi Md. Masum Billah and Mohammad Mashud
- ➔ **PI-116: EXPERIMENTAL INVESTIGATION OF TUBE SIDE HEAT TRANSFER ENHANCEMENT USING WIRE COIL INSERT**
Sumana Biswas and Bodius Salam
- ➔ **PI-248: ANALYTICAL INVESTIGATION OF DOMESTIC AIR-CONDITIONING SYSTEM USING DIFFERENT REFRIGERANTS**
Santoshi Saha, J. U. Ahamed, Debdatta Das, Farzana Akter, Md. Shamim Hossain
- ➔ **PI-251: HEAT TRANSFER ANALYSIS OF PIN FIN ARRAY**
Md. Shamim Hossain, J. U. Ahamed, Farzana Akter, Debdatta Das, Santoshi Saha
- ➔ **PI-252: HEAT AND MASS TRANSFER IN MHD FREE CONVECTION FLOW OVER AN INCLINED STRETCHING PLATE WITH HALL CURRENT**
Mohammad Ali, Mohammad Shah Alam, Ashutose Saha, Md. Abdul Alim and S M Humayun Kabir
- ➔ **PI-255: PERFORMANCE OF A VERTICAL HEAT PIPE USING REFRIGERANT R-22 AS WORKING FLUID**
Md. Zahidul Islam, Mostafa Zaman Haider, Mohammad Tanvir Hossain and Md. Mezba Uddin
- ➔ **PI-271: EXPERIMENTAL INVESTIGATION OF POOL BOILING HEAT TRANSFER ENHANCEMENT USING POROUS SURFACE**
Shibanul Haque, Bodius Salam, Prosenjit Halder and Sayed Sanwar Hossain

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- ➔ **PI-044: A PERSPECTIVE ANALYSIS OF NONCONVENTIONAL COAL MINING METHOD AT PHULBARI COAL FIELD IN DINAJPUR, BANGLADESH: AN OVERVIEW, PROSPECT AND FATE OF THE ENVIRONMENT**
Deeponker Sarker, Ashraf Ali Seddique, Nazmul Islam and Alice Sunandita Biswas
- ➔ **PI-049: SOLAR AGRICULTURAL WATER PUMPING SYSTEM WITH AUTO TRACKING AND SENSORS**
Md. Atiqul Islam
- ➔ **PI-094: HYDROCARBON POTENTIAL OF CENOZOIC MUDSTONES, NORTHEASTERN BENGAL BASIN, BANGLADESH**
H. M. Zakir Hossain
- ➔ **PI-122: MATERIAL BALANCE OF A GAS RESERVOIR OF SURMA BASIN BY FLOWING WELLHEAD PRESSURE APPROACH: A CASE STUDY**
Md. Mahfuzul Houqe, Mohammad Islam Miah, Shamira and Towhidul Islam

- ➔ **PI-241: DEVELOPMENT OF A STRAW SHREDDER AND PERFORMANCE ANALYSIS**
Aktaruzzaman Al-Hossain, Md. Forhadul Islam, Mohammad Imrul Kayes Saurav and Md. Asad Rahman
- ➔ **PI-269: DESIGN AND FABRICATION OF GSM BASED AUTOMATIC IRRIGATION SYSTEM**
M Biswas, M A Wazed and M S Rabbi

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- ➔ **PI-017: PRODUCTIVITY IMPROVEMENT THROUGH JOB SATISFACTION: A STUDY OF GOLDEN SON LIMITED**
Md. Mamunur Rashid, Md. Abdus Salek Khan and M.A Rashid Sarker
- ➔ **PI-158: ANALYSIS OF PROBLEMS OF INDUSTRIES OF BANGLADESH BECOMING SICK**
A.K.M. Solyman Hoque, S.K. Biswas and M. A. Wazed
- ➔ **PI-182: IMPLEMENTATION OF ISO 9000 IN EDUCATIONAL INSTITUTION**
Tonmoy kumer Dhar, Sattom Halder and Shyamal Kanti Biswas
- ➔ **PI-218: INVESTIGATION OF INJURIES, ACCIDENTS AND HAZARDS OCCURRED IN A GARMENT FACTORY AND THEIR EFFECT ON PRODUCTIVITY**
M. Iqbal, Shibbir Ahmad, Al Amin B. Khalil, M. Roomi
- ➔ **PI-227: QUALITY ASSURANCE IN TERTIARY ENGINEERING EDUCATION & SUGGESTION FOR IMPROVEMENTS IN THE 3rd WORLD COUNTRIES**
Soma Chakraborty, Shyamal Kanti Biswas and Md. Maruful Islam
- ➔ **PI-267: ANALYSIS OF INDUSTRIES BECOMING SICK BY RATIO ANALYSIS**
A.K.M. Solyman Hoque, S.K. Biswas and M. A. Waze

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- ➔ **PI-012: RENEWABLE HYDROGEN FROM AQUEOUS PHASE REFORMING (APR) OF GLYCEROL OVER BIMETALLIC PT-NI CATALYSTS**
M. M. Rahman and Andrew T. Harris
- ➔ **PI-039: STUDY OF ENGINE PERFORMANCE AND EXHAUST EMISSION OF A DIESEL ENGINE USING PALM BIODIESEL BLENDS AT HIGH IDLING OPERATIONS**
S. M. Ashrafur Rahman, H. H. Masjuki, M. A. Kalam, A. Sanjid, M. J. Abedin, Bony Anjabeen, Debashish Saha, Sabbir Hassan, M. M. Islam and Morshed Alam
- ➔ **PI-041: INVESTIGATION OF OPTIMUM BLEND RATIO OF JATROPHA, PALM, COCONUT AND WASTE COOKING OIL BASED BIODIESEL TO IMPROVE FUEL PROPERTIES**
M. I. Arbab, Md. Shoeb Hasan, H. H. Masjuki, M. Varman, M. A. Kalam, H. Sajjad and S. Imtenan
- ➔ **PI-042: AN EXPERIMENTAL INVESTIGATION OF DENATURED ANHYDROUS ETHANOL-GASOLINE FUEL BLENDS ON THE PERFORMANCE AND EMISSION CHARACTERISTICS OF A SI ENGINE**
B. M. Masum, H. H. Masjuki, M. A. Kalam, S.M.Palash, I M Rizwanul Fattah and K. M. Anamul Hossain

- **PI-059: BIODIESEL PRODUCTION FROM APHANAMIXIS POLYSTACHYA (PITRAJ OIL) AND ITS COMPARATIVE ANALYSIS OF FUEL PROPERTIES WITH DIESEL AS AN ALTERNATIVE FUEL IN DIESEL ENGINE**
S. M. Palash, H. H. Masjuki, M. A. Kalam, A. E. Atabani and B. M. Masum
- **PI-198: LPG AN ALTERNATIVE FUEL IN BANGLADESH**
M. Elahi, S. Hossain and M. A. R. Sarkar
- **PI-203: PERFORMANCE COMPARISON OF DI DIESEL ENGINE BY USING ESTERIFIED MUSTARD OIL AND PURE MUSATRD OIL BLENDING WITH DIESEL**
S. M. Ameer Uddin, A. K. Azad, M. M. Alam and J. U Ahamed
- **PI-214: PRODUCTION OF LIQUID FUEL AND OBSERVATION OF ACTIVATED CARBON OF CHAR FROM WASTE MAHOGANY SEED USING FIXED BED PYROLYSIS PROCESS**
Md.Afrozaman, Anwar Sadat, H.M.Farshid

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- **PI-188: HEARTBEAT MONITORING SYSTEM WITH DIGITAL STETHOSCOPE**
Mannu Bardhan Paul, Khayrul Bashar and Manash Chakraborty
- **PI-196: DESIGN & IMPLEMENTATION OF A DIELECTRIC CONSTANT MEASURING METER FOR WATER**
C. K. Das, Surajit Biswas, Tahzibul Hoque and Shohidul Islam
- **PI-197: A WIRELESS HEARTBEAT AND TEMPERATURE MONITORING SYSTEM FOR REMOTE PATIENTS**
C. K. Das, M. W. Alam and M. I. Hoque
- **PI-224: DESIGN & FABRICATION OF AN AUTOMATIC LIQUID FILLING MACHINE**
Binoy Kumar Saha, Banytosh Mazumder, Abdullah-Al-Mamoon, Md. Kamrul Islam, Md. Tazul Islam and Tahsin Ahmed
- **PI-231: PATIENT MONITORING AND DAILY HEALTH REPORTING BY GSM MODULE**
Jahedul Islam, Md. Momiur Rahman, Sajidur Rahman and Rakibul Hasan
- **PI-232: DESIGNING OF GSM BASED AUTOMATIC METER READ (AMR) SYSTEMS FOR RESIDENTIAL NATURAL GAS METER**
Sk. Md. Golam Mostafa
- **PI-242: DESIGNING AND DEVELOPMENT OF GSM BASED ENERGY METER**
Sk. Md. Golam Mostafa
- **PI-247: DEVELOPMENT OF AN AUTOMATIC FOOD PACKGING SYSTEM**
M. A Kader, M. A Islam, M. R Uddin and M. J Hossen
- **PI-256: DATA ACQUISITION SOFTWARE FOR SYSTEM TEMPERATURE MONITORING**
Muhammad Reaz Uddin, Md. Mezba Uddin and Shah Muhammad Fuad
- **PI-263: DESIGN OF ARETHMETIC LOGIC UNIT USING VHDL**
Md. Rashedul Islam Sarker, Raju Ahamed, Md. Kamal Hossain and Quazi Delwar Hossain
- **PI-265: MICROCONTROLLER BASED LPG GAS DETECTION**
M N Ullah, M T Islam and M A Islam

➡ **PI-288: DESIGN AND FABRICATION OF A PASSWORD PROTECTED AUTOMATIC SLIDING DOOR**

M T Islam, R Pal and M A Islam

➡ **PI-298: DESIGN AND FABRICATION OF A MODEL OF REMOTE CONTROLLED HOVERCRAFT**

S. Chowdhury, M. S. Rabbi and S. C. Banik

➡ **PI-303: Development of a GSM SMS Based Humidity Remote Monitoring and Control System for Industrial Applications.**

Shah Muhammad Fuad, Md. Mahbulul Alam, Muhammad Reaz Uddin, Md. Mezba Uddin and Md. Asif Rezwana

Technical Session – IV (E): Fuel & Combustion-II

➡ **PI-220: ANAEROBIC CO-DIGESTION OF SEWAGE SLUDGE AND KITCHEN WASTE FOR BIOGAS PRODUCTION**

Salma A. Iqbal, Shahinur Rahaman, Mizanur Rahman and Abu Yousuf

➡ **PI-226: PARAMETRIC ANALYSIS OF COCONUT OIL AND WASTE VEGETABLE OIL IN A DIESEL ENGINE**

Soma Chakraborty, Amit Adhikary and Maglub Al Nur

➡ **PI-228: CONSTRUCTION OF A GAS TURBINE/JET ENGINE WITH AN AUTOMOBILE TURBOCHARGER**

Deshbandhu Halder

➡ **PI-245: COAL AND ITS COMBUSTION PRODUCTS: A GLOBAL PERSPECTIVE**

Md. Moinul Islam, Sabrina Islam and Md. Saiful Islam

➡ **PI-249: STUDY ON PRODUCTION OF BIOGAS FROM MIXTURE OF COWDUNG AND CHICKEN EXCRETA USING SILICA GEL AS A CATALYTIC**

Debdatta Das, J U Ahamed, SantoshiSaha, Md. ShamimHossian and FarzanaAkteer

➡ **PI-268: RECENT DEVELOPMENT IN PRODUCING BIODIESEL FROM NON-EDIBLE OIL FEEDSTOCKS**

Muhammad Mostafa Kamal Bhuiya, Mohammad Golam Rasul, Nanjappa Ashwath and Mohammad Masud Kamal Khan

➡ **PI-300: PRODUCTION OF PYROLYSIS OIL FROM PINE SEEDS THROUGH FIXED BED PYROLYSIS PROCESS AND ITS COMPARISON WITH FOSSIL OIL**

Md. Abdur Rahim, Md. Tasruzzaman Babu and Md. Sohel Rana

➡ **PI-302: DEVELOPMENT OF A SELF SUFFICIENT PYROLYSIS SYSTEM FOR PRODUCTION OF LIQUID FUEL FROM WASTE TIRE**

M. A. Kader, M. R. Islam and H. Haniu

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