# Technical Sessions of the 10<sup>th</sup> Annual Conference of SUST Research Centre Date 28-29<sup>th</sup> January 2023 Chief Coordinator: Director SUST Research Centre

# Technical Session–I: For Dept. of CSE, EEE & IICT Date: Jan 28, 2023 || Time: 2:00 PM – 4:00 PM

Venue: RC Conference Room

# Chair: Professor Dr. Mohammad Shahidur Rahman, Coordinator: Professor Dr. Md. Rashed Talukder (E mail: r.talukder-mat@sust.edu)

Each Presentation Time: 7.00 min (1 year projects) and 10 min (2 years projects)

| Sl.No. | Project ID   | Dept. | Project Title  | Researchers Name   | Project<br>Duration |
|--------|--------------|-------|--|--|---------------------|
| 1.     | AS/2021/1/19 | CSE   | BATS: A Dataset for Bangla<br>Automatic Text Summarization   | PI: Enamul Hassan, Assistant Professor, Dept<br>of CSE & CI: Md Mahadi Hasan Nahid,<br>Assistant Professor, Dept of CSE, SUST            | 1 year              |
| 2.     | AS/2021/1/20 | CSE   | Empowering children in digital literacy through innovative game-based methodology  | PI: Dr . Md Forhad Rabbi,<br>Associate Professor, Dept of CSE & CI:<br>Summit Haque, Assistant Professor, Dept of<br>CSE, SUST           | 1 year              |
| 3.     | AS/2021/1/21 | EEE   | A Smart Energy Storage Scheme<br>Integrated with Hybrid<br>Renewable Energy Sources for<br>Pico-Grid Environment   | PI: Dr. Ifte Khairul Amin, Associate<br>Professor, Dept. of EEE & CI: Arif<br>Ahammad, Assistant Professor, Dept. of EEE,<br>SUST        | 1 year              |
| 4.     | AS/2021/1/42 | IICT  | Potato Late blight disease<br>detection using Convolutional<br>Neural Network (CNN)  | PI: Dr Ahsan Habib, Assistant Professor,<br>IICT, SUST & CI: Fazle Mohammed Tawsif,<br>Lecturer, IICT, SUST                              | 1 year              |
|        |              |       |  |  |                     |
| 5.     | PS/2020/2/20 | MAT   | Subdirectly Irreducible Pseudocomplemented JP-semilattices   | PI: Professor Dr. Shamsun Naher Begum, Dept of<br>Mathematics & CI: Dr. Chandrani Nag, Associate<br>Professor, Dept of Mathemitics, SUST | 2 years             |
| 6.     | PS/2020/2/21 | MAT   | Development of the general<br>algorithm for mesh generation of<br>two-dimensional (convex and<br>concave) domains and the code for<br>solving the continum mechanics<br>problems | PI: Professor Dr. Md. Sajedul karim, Dept of<br>Mathematics, SUST  | 2 years             |
| 7.     | PS/2021/1/14 | MAT   | Recognition and enumeration of posets with bounded decomposition diameter  | PI: Mohammad Salah Uddin, Assistant<br>Pofessor, Dept of MAT and CI: Professor<br>Md. Shah Noor, Dept of MAT, SUST                       | 1 year              |
| 8.     | PS/2021/1/15 | MAT   | Three-Dimensional Numerical<br>Simulation of Two-Phase Boiling<br>Heat Transfer Using Modified<br>Vloume of Fluid Method   | PI: Professor Dr. Md. Ashraf Uddin, Dept of MAT & CI: Dipok Deb, Assistant Professor, Dept of MAT, SUST                                  | 1 year              |
| 9.     | PS/2021/1/17 | MAT   | The spread of COVID-19 and its control mechanism through Optimization: A modeling approach.  | PI: S. M. Saydur Rahman, Assistant<br>Professor, Dept. of MAT & CI: Dr Pabel<br>Shahrear, Professor, Dept of MAT, SUST                   | 1 year              |

<sup>•</sup> Please submit your Presentation file at least 48 hours before your presentation to the email: r.talukder-mat@sust.edu

#### Technical Session-II: For Dept. of ANP, ENG, & BNG

Date: Jan. 28, 2023 || Time: 2:00 PM - 4:00 PM

Venue: RC Lab

#### Chair: Prof. A K M Mazharul Islam, Coordinator: Prof. Dr. Tulshi Kumar Das

(Email: <a href="mailto:tulshikumardas@gmail.com">tulshikumardas@gmail.com</a>)

Each Presentation Time: 7.00 min (1 year projects) and 10 min (2 years projects)

| Sl.No. | Project ID   | Dept. | Project Title  | Researchers Name   | Project<br>Duration |
|--------|--------------|-------|--|--|---------------------|
| 1.     | SS/2020/2/08 | ANP   | Assessment of Household Food Safety and<br>Associated Food Hygiene Practices among<br>Mothers in Sylhet Division: A Mixed<br>Method Study                          | PI: Professor Dr. Nur Mohammad<br>Majumder, Dept of Anthropology, SUST   | 2 years             |
| 2.     | SS/2021/1/01 | ANP   | Socio-cultural Barriers, Challenges<br>and Health Seeking Behavior of EPI<br>& PHC Services in Sylhet City<br>Corporation, Bangladesh: A<br>Qualitative Assessment | PI: Dr. Nur Mohammad Majumder<br>Professor & Head, Dept of<br>Anthropology, SUST   | 1 year              |
| 3.     | SS/2021/1/05 | ANP   | Socio-economic influences on<br>women's property right management<br>under secured land holding initiatives:<br>A study on migrated women in Sylhet<br>District    | PI: Choudhury Farhana Jhuma<br>Associate Professor, Dept of<br>Anthropology & CI: Zafrin Ahmed<br>Liza, Assistant Professor, Dept of<br>Anthropology, SUST | 1 year              |
| 4.     | SS/2021/1/06 | ANP   | Medicalization on the C-section<br>Choice of Pregnant Women: A<br>Comparative. Analysis between Rural<br>and Urban Settings in Moulavibazar of<br>Bangladesh.      | PI: Md. Shahgahan Miah, Assistant<br>Professor, Dept of ANP & CI: Sanjay<br>Krishno Biswas, Assistant Professor,<br>Dept of ANP, SUST                      | 1 year              |
| 5.     | SS/2021/1/07 | ANP   | Self-Medication Practices and Drug<br>Behaviors in Pharmacy Care Setting<br>among the Rural People of Sylhet,<br>Bangladesh  | PI: Dr. Mohammad Monjur-Ul-Haider,<br>Assistant Professor, Dept of ANP & CI:<br>Korima Begum, Assistant Professor,<br>Dept of ANP, SUST                    | 1 year              |
| 6.     | SS/2021/1/44 | ANP   | Capturing the Adolesent Boys Sexual and Reproductive Health Status in Urban Slums: a qualitative exploration   | PI: Muhammad Salim Miah, Lecturer,<br>Dept of ANP & CI: Navila Kawser,<br>Lecturer, Dept. of ANP, SUST   | 1 year              |

Please submit your Presentation file at least 48 hours before your presentation to the email:

: tulshikumardas@gmail.com

Technical Session-III: For Dept. of FES

Date: Jan 28, 2023  $\parallel$  Time: 2:00 PM - 4.00 PM

Venue: IQAC Conference Room

### Prof. Dr. Swapan Kumar Sarker. Coordinator: Prof. Dr. A. Z. M Manzoor Rashid (Email: pollen\_forest@yahoo.com)

Each Presentation Time: 07.00 min (1 year project) and 10 min. (2 & 3 years projects)

| Sl.No. | Project ID    | Dept. | Project Title  | Researchers Name   | Duration |
|--------|---------------|-------|--|--|----------|
| 1.     | FES/2020/2/01 | FES   | Disentangling natural regeneration dynamics in the Sundarbans mangrove ecosystem   | PI: Dr Swapan Kumar Sarker,<br>Professor, & CI: Anup Datta, Lecturer,<br>Dept of Foresty & Environmental<br>Science, SUST                    | 2 years  |
| 2.     | FES/2020/2/06 | FES   | Assessing the Socio-Ecological Effectiveness of Forest Management Instutions in Bangladesh- A case Study from a North Eastern Forest Ecosystem       | PI: Professor Dr. Mohammad Belal<br>Uddin, Dept of Forestry and<br>Environmental Science, SUST   | 2 years  |
| 3.     | FES/2021/1/01 | FES   | Trade-offs between forest restoration and its utilization: Lawachara National Park perspectives  | PI: Professor Dr. Narayan Saha,<br>Dept of FES, SUST   | 1 year   |
| 4.     | FES/2021/1/02 | FES   | Identifying spatio-temporal patterns and drivers of Top-dying disease outbreaks in the Sundarbans mangrove forest                                    | PI: Dr. Swapan Kumar Sarker,<br>Professor, FES, SUST   | 1 year   |
| 5.     | FES/2021/1/05 | FES   | Examining the effect of soil ecosystem functions and disturbance regimes on tree biomass production in Rema-Kalenga Wildlife Sactuary                | PI: Md Saifuzzaman Bhuiyan,<br>Assistant Professor, Dept. of FES<br>& CI: Abdur Rakib Bhuiyan,<br>Assistant Professor, Dept. of FES,<br>SUST | 1 year   |
|        |               |       | Session Break  |  |          |
| 6.     | FES/2021/1/07 | FES   | Hydraulic traits variation along the height gradient from root to branch of three functionally different tree species in Bangladesh                  | PI: Dr. Mahmuda Islam, Associate<br>Professor, Dept of FES & CI:<br>Professor Dr. Mizanur Rahman,<br>Dept of FES, SUST                       | 1 year   |
| 7.     | FES/2021/1/08 | FES   | Assessment of damage caused by wood-decay fungi in major log depots of north-eastern Bangladesh  | PI: Dr. Mohammed Masum Ul<br>Haque, Assistant Professor,<br>Dept of FES & CI: Rahela Khatun,<br>Lecturer, Dept of FES, SUST                  | 1 year   |
| 8.     | FES/2021/1/09 | FES   | Development of tools for assessing the impact of invasive plant species – An Innovative Approach for the Management of Protected Areas in Bangladesh | PI: Professor Dr. Mohammad Belal<br>Uddin, Dept. of Forestry and<br>Environmental Science<br>SUST.   | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: pollen\_forest@yahoo.com

#### Technical Session-IV: For Dept. of CHE

Date: Jan. 28, 2023 | Time: 4:00 PM - 6:00 PM

#### Venue: RC Conference Room

# Chair: Prof, Dr Sayeed Shamsul Alam, Coordinator: Dr. S.M. Saiful Islam (Email: director-rc@sust.edu) Each Presentation Time: 07.00 min. (1 year project) and 10 min. (2 & 3 years projects)

| 1.N<br>o. | Project ID   | Dept. | Project Title  | Researchers Name  | Project<br>duration |
|-----------|--------------|-------|--|---|---------------------|
| 1.        | PS/2021/1/01 | СНЕ   | Design, Synthesis, Characterization, and Study of Optical Properties of a Series of New Bis (ferrocenecarboxaldehyde) ethylenediimine Platinum(II) Bis(arylalkynyl) Complexes                | PI: Professor Dr. Md. Mostafizur<br>Rahman, Dept of Chemistry, SUST   | 1 year              |
| 2.        | PS/2021/1/03 | СНЕ   | Design and realization of plasmonic solar cell platform  | PI: Professor Dr.Nur Uddin Ahamad,<br>Dept of Chemistry, SUST   | 1 year              |
| 3.        | PS/2021/1/05 | СНЕ   | Simple fabrication of Poly(Th-co-<br>Py)/ZnO nanocomposites for<br>photocatalytic application:<br>Morphological topography, thermal and<br>optical properties                                | PI: Professor Dr. Mohammad Mizanur<br>Rahman Khan, Dept of CHE & CI: Md.<br>Masum Talukder, Assistant Professor,<br>Dept. of Chemistry, SUST      | 1 year              |
| 4.        | PS/2021/1/07 | СНЕ   | Study on the synthesis of Fe(II/III), Ru(II/III), Ni(II) and Pd(II) coordination complexes with substituted thiosemicarbazone Schiff base ligand and their catalytic activities.             | PI: Dr. Md. Azharul Arafath, Associate<br>Professor, Dept. of Chemistry, SUST   | 1 year              |
| 5.        | PS/2021/1/08 | СНЕ   | Hydrothermal synthesis, crystal structures, and properties of novel heterometallic porous crystalline oxyfluoride materials.   | PI: Dr. Belal Ahmed, Associate<br>Professor, Dept of Chemistry & CI:<br>Ramkrishna Saha, Assistant Professor,<br>Dept of Chemistry, SUST          | 1 year              |
|           |              |       | Session Break  |   |                     |
| 6.        | PS/2021/1/09 | СНЕ   | Fabrication of novel nanomaterials using multi-metal oxides and assessing their applicability as photocatalyst and antibacterial agent.  | PI: Pallab Chandra Saha, Assistant<br>Professor, Dept of Chemistry &<br>CI:Professor, Dr. Md. Abdus Subhan,<br>Dept of Chemistry, SUST            | 1 year              |
| 7.        | LS/2021/1/01 | ВМВ   | Identification, expression profiling and functional characterization of highly abiotic stress-inducible aldehyde Dehydrogenase Gene Family members in potato for the future crop improvement | PI: Dr. Ajit Ghosh, Assistant Professor,<br>Dept of BMB & CI: Md. Mahmud-or-<br>Rashid, Lecturer, Dept of MEE, SUST                               | 1 year              |
| 8.        | LS/2021/1/02 | ВМВ   | study the antibiogram in bacteria<br>collected from different cancer<br>patients in Sylhet: an attempt to reduce<br>antibiotic resistance associated<br>infections                           | PI: Dr. Shaikh Mirja Nurunnabi,<br>Assistant Professor, Dept of BMB &<br>CI: Md. Hedayathullah Al Hadi,<br>Lecturer, IML, SUST                    | 1 year              |
| 9.        | LS/2021/1/04 | ВМВ   | Assessment of the relationship between serum liver enzymes activity and metabolic syndrome: a study on Bangladeshi adults  | PI: Dr. Md. Nurshad Ali, Assistant professor, Dept. of BMB & CI: Mitu Samadder, Assistant Professor, Dept. of FET, SUST                           | 1 year              |
| 10.       | LS/2021/1/05 | ВМВ   | Occurrence of aflatoxin M1 levels in maternal milk and urine samples in Bangladesh   | PI: Khandakar Atkia Fariha<br>Assistant professor, Dept. of BMB &<br>CI: Farjana Islam, Assistant Professor,<br>Dept. of BMB, SUST                | 1 year              |
| 11.       | LS/2021/1/06 | BMB   | Isolation and Molecular Characterization of Extended Spectrum β-lactamase and Carbapenem Resistant E. coli and K. pneumoniae from Meat and Fish Samples of Bangladesh                        | PI: Moshiul Alam Mishu, Assistant<br>Professor, Dept. of BMB & CI: Dr.<br>Muhammad Abul Kalam Azad,<br>Assistant Professor, Dept. of BMB,<br>SUST | 1 year              |

#### Technical Session-V : For Dept. of PAD, & PSS

Date: Jan. 28, 2023 || Time: 4.00 PM – 6:00 PM

Venue: RC Lab.

#### Chair: Prof. Dilara Rahman, Coordinator: Prof. Dr. Tulshi Kumar Das

(Email: tulshikumardas@gmail.com)

Each Presentation Time: 07.00 min. (1 year project) and 10 min (2 years project)

| Sl.No. | Project ID   | Dept. | Project Title   | Researchers Name   | Duration |
|--------|--------------|-------|---|--|----------|
| 1.     | SS/2020/2/25 | PAD   | Exploring Citizens' Satisfaction with<br>Service Delivery: A Study of Sylhet<br>City Corporation  | PI: Professor Dr. Mohammad Shafiqul<br>Islam, Dept of Public Administation, SUST   | 2 years  |
| 2.     | SS/2021/1/20 | PAD   | Choice of healthcare providers:<br>Does trust matter?   | PI: Chowdhury Abdullah Al-Hossienie,<br>Associate Professor, Dept of PAD &<br>CI: Kanij Fatema, Assistant Professor,<br>Dept of PAD, SUST                                  | 1 year   |
| 3.     | SS/2021/1/21 | PAD   | Patient's Satisfaction with<br>Community Clinics Health Service<br>Delivery in Sylhet District: A Study<br>on Field based Survey                                      | PI: Dr Mohammad Shafiqul Islam,<br>Professor, Dept of Public<br>Administration, SUST   | 1 year   |
| 4.     | SS/2021/1/22 | PAD   | Effectiveness of Legal Aid Services in Bangladesh: A study on Sylhet Division   | PI: Professor Anwara Begum, Dept of Public Administration & CI: Muhammad Mustofa Kamal, Assistant Professor, Dept of Public Administration, SUST                           | 1 year   |
| 5.     | SS/2021/1/23 | PAD   | Field Administration Responding to<br>COVID-19 Pandemic: Evidence<br>from Sylhet  | PI: Md Mahmud Hasan, Assistant<br>Professor, Dept of PAD & CI: Jobayda<br>Gulshan Ara, Assistant Professor, Dept<br>of PAD, SUST   | 1 year   |
| 6.     | SS/2021/1/24 | PAD   | Role of Public Participation in<br>ensuring Public Trust on Local<br>Government in<br>Bangladesh: A Comparative Study<br>on Urban-Local and Rural-Local<br>Government | PI: Sabina Yasmin, Assistant Professor,<br>Dept of PAD & CI: Dr Mohammad<br>Nashir Uddin, Assistant Professor, Dept<br>of PAD, SUST  | 1 year   |
| 7.     | SS/2021/1/20 | PAD   | Choice of healthcare providers: Does trust matter?  | PI: Chowdhury Abdullah Al-Hossienie,<br>Associate Professor, Dept of PAD &<br>CI: Kanij Fatema, Assistant Professor,<br>Dept of PAD, SUST                                  | 1 year   |
|        |              |       | Session Break   |  |          |
| 8.     | SS/2021/1/27 | PSS   | Trees Felling led Environmental Degradation and its Impacts on the Khasi People: A Study of Sylhet Region of Bangladesh   | PI: Dr Mohammad Jahirul Hoque,<br>Professor, Dept of Political Studies,<br>SUST  | 1 year   |
| 9.     | SS/2021/1/29 | PSS   | Social integration through education of Rohingya ethnic minority people in Cox's Bazar district, Bangladesh   | PI: Dr. Md. Shahabul Haque, Associate<br>Professor, Dept of Political Studies &<br>CI: Mohammad Shakil Bhuiyan,<br>Assistant Professor, Dept of Political<br>Studies, SUST | 1 year   |
| 10.    | SS/2021/1/31 | PSS   | Bangladesh-India Economic<br>Relations: A Study on Cross-Border<br>Trade  | PI: Dr. Fahmida Aktar, Associate Professor, Dept of Political Studies & CI: Mst. Tahmina Akter, Lecturer, Dept of Political Studies, SUST                                  | 1 year   |
| 11.    | SS/2021/1/32 | PSS   | Adaptation strategies for climate change in the haor region enshrined in the Environmental policies, laws and regulations of Bangladesh: A Critical Review            | PI: Md. Amdadul Haque, Assistant<br>Professor, Dept of Political Studies &<br>CI: Hajera Aktar, Assistant Professor,<br>Dept of Political Studies, SUST                    | 1 year   |
| 12.    | SS/2021/1/33 | PSS   | Microfinance among tea workers:<br>Inclusion or in the trap?  | PI: Syeda Ismat Ara Jahan, Assistant<br>Professor, Dept of Political Studies &<br>CI: Md Mahbub Alam, Assistant<br>Professor, Dept of Political Studies,<br>SUST           | 1 year   |

#### Please submit your Presentation file at least 48 hours before your presentation to the email:

tulshikumardas@gmail.com

Technical Session–VI: For Dept. of IPE Date: Jan 28, 2023 || Time: 4:00 PM – 6.00 PM

Venue: IQAC Conference Room

Chair: Prof. Dr. Md. Ariful Islam. Coordinator: Prof. Dr. Tamez Uddin

(Email: mtuddin-cep@sust.edu)

Each Presentation Time: 07.00 min (1 year project) & 10.00 min. (2 year project)

| Sl.No. | Project ID   | Dept. | Project Title   | Researchers Name   | Duration |
|--------|--------------|-------|---|--|----------|
| 1.     | AS/2021/1/29 | IPE   | Technology adaption and its challenges in selected Industrial Sector  | PI: Professor Chowdhury Abul<br>Anam Rashed, Dept of Dept of<br>Industrial and Production<br>Engineering, SUST                   | 1 year   |
| 2.     | AS/2021/1/31 | IPE   | Study on Impact of Coronavirous<br>(COVID-19) and Reaction by the Selected<br>Tea Estates Employees to the Change on<br>Working Environment in Bangladesh | PI: Professor Dr. Mohammad Iqbal,<br>Dept of Industrial & Production<br>Engineering, SUST  | 1 year   |
| 3.     | AS/2021/1/32 | IPE   | Development of Parallel Finite Element<br>Code for the Analysis of Bioheat<br>Transfer Through the Whole Human<br>Body                                    | PI: Prof. Dr. Abul Mukid<br>Mohammad Mukaddes, Dept of<br>Industrial and Production<br>Engineering, SUST                         | 1 year   |
| 4.     | AS/2021/1/33 | IPE   | Energy management in industrial sector of<br>Bangladesh: scenario building and<br>strategic framework development   | PI: Dr. Md. Ariful Islam, Professor,<br>Dept of Industrial and Production<br>Engineering, SUST                                   | 1 year   |
|        |              |       | Session Break   |  |          |
| 5.     | AS/2021/1/34 | IPE   | The Emergence of the Fourth Industrial Revolution (Industry 4.0) in the industrial section of Bangladesh: exploring and managing key success factors.     | PI: Dr. Ahmed Sayem, Professor & CI: Dr. M. Muhshin Aziz Khan Professor, Dept of IPE, SUST                                       | 1 year   |
| 6.     | AS/2021/1/35 | IPE   | Identify Resource Utilization of Educational Institutions in Bangladesh-An Exploratory Study and Development of a Model Based Optimal Solution.           | PI: Md. Mehedi Hasan Kibria,<br>Assistant Professor, Dept of IPE &<br>CI: Jahid Hasan, Assistant<br>Professor, Dept of IPE, SUST | 1 year   |
| 7.     | AS/2021/1/36 | IPE   | Micro channel fabrication on non-metallic material using laser beam machining   | PI: Professor Dr. Mst. Nasima<br>Bagum, Dept of IPE, SUST  | 1 year   |

Please submit your Presentation file at least 48 hours before your presentation to the email: mtuddin-cep@sust.edu

### Technical Session–VII: For Dept. of GEB Date: Jan 29, 2023 $\parallel$ Time: 11:00 AM – 01:00 PM

Venue: RC Conference Room

### Chair: Prof. Dr. Md Kamrul Islam. Coordinator: Prof. Shamsul Haq Prodhan (Email: shamsulhp@gmail. com)

Each Presentation Time: 07.00 min. (1 year project) and 10 min. (2 years projects)

| Sl.No. | Project ID   | Dept. | Project Title  | Researchers Name   | Duration |
|--------|--------------|-------|--|--|----------|
| 1.     | LS/2021/1/07 | GEB   | Effects of Salinity on Growth, Yield and Fruit Quality of Tomato ( <i>Solanum lycopersicum</i> L.) Under Hydroponics System  | PI: Asif Mahmud, Assistant<br>Professor, Dept. of GEB & CI: Md<br>Hazrat Ali, Assistant Professor,<br>Dept of GEB, SUST                    | 1 year   |
| 2.     | LS/2021/1/08 | GEB   | Characterization of Antimicrobial Extracellular Metabolites of Endophytic Fungal Isolates from Azadirachta indica  | PI: Professor Dr. Md. Abul Kalam<br>Azad, Dept. of Genetic<br>Engineering and Biotechnology,<br>SUST                                       | 1 year   |
| 3.     | LS/2021/1/09 | GEB   | Inhibition of α-amylase and α-glucosidase Linked to Type 2 Diabetes by the Extracts of Red Pitaya Fruit (Hylocereus polyrhizus) to Control Diabetes Mellitus                           | PI: Professor Dr. Md. Jahangir<br>Alam, Dept. of Genetic<br>Engineering and Biotechnology,<br>SUST   | 1 year   |
| 4.     | LS/2021/1/12 | GEB   | Morphological and molecular analysis of plant-parasitic nematodes from Lemon (Citrus aurantiifolia Christm.) gardens and their phytochemical management by native plant extracts       | PI: Professor Dr. Md. Kamrul<br>Islam, Dept. of Genetic<br>Engineering and Biotechnology,<br>SUST  | 1 year   |
| 5.     | LS/2021/1/13 | GEB   | Newborn screening through<br>umbilical cord blood for common<br>chromosomal disorders in Bangladesh  | PI: Dr. Md. Faruque Miah,<br>Professor, Dept of GEB & CI:<br>Zobada Kanak Khan, Assistant<br>Professor, Dept of GEB, SUST                  | 1 year   |
|        |              |       | Session Break  |  |          |
| 6.     | LS/2021/1/14 | GEB   | Optimal Markers for RT-qPCR Detection of Circulating Tumor Cells in Blood  | PI: Dr. Md. Jahangir Alam,<br>Associate Professor, Dept of GEB,<br>SUST  | 1 year   |
| 7.     | LS/2021/1/15 | GEB   | Morphophysiological and biochemical characterization of Bt Brinjal varieties and their ancestor genotypes  | PI: Dr. Md. Ashrafuzzaman,<br>Associate Professor, Dept of GEB<br>& CI: Professor Dr. Mohammad<br>Zahangir Alam, Dept of GEB,<br>SUST      | 1 year   |
| 8.     | LS/2021/1/16 | GEB   | Rubber/resin stamp-molded open-<br>channel microfluidic device for cost-<br>effective, rapid and multiple/multiplex<br>antibiotic sensitivity test                                     | PI: Dr. Gokul Chandra Biswas,<br>Associate Professor, Dept of GEB,<br>SUST   | 1 year   |
| 9.     | LS/2021/1/17 | GEB   | Alternative to antibiotics: Gram positive bacteriophage endolysins identification and characterization   | Dr. Md Shakhinur Islam Mondal,<br>Professor, Dept of GEB & CI: Dr.<br>Mst Arzuba Akter, Associate<br>Professor, BMB Dept, SUST             | 1 year   |
| 10.    | LS/2021/1/18 | GEB   | Identification of deleterious missense mutations in Hemoglobion genes associated with Thalassemia and study of their prevalence in Bangladeshi population through molecular approaches | PI: Md. Hammadul Hoque,<br>Assistant Professor, Dept of GEB<br>& CI: G.M. Nurnabi Azad Jewel,<br>Assistant Professor, Dept of GEB,<br>SUST | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: shamsulhp@gmail.com

# Technical Session – VIII: Dept. of CEE and ARC Date: Jan 29, 2023 $\parallel$ Time: 11.00 AM – 01:00 PM

Venue: RC Lab.

# Chair: Professor Dr. Mushtaq Ahmed, Coordinator: Prof. Dr. A. Z. M Manzoor Rashid (Email: pollen\_forest@yahoo.com

Each Presentation Time: 07.00 min. (1 year project) 10 min. (2 years projects)

| Sl.No. | Project ID   | Dept. | Project Title   | Researchers Name  | Duration |
|--------|--------------|-------|---|---|----------|
| 1.     | AS/2020/2/15 | CEE   | Domestic and industrial wastewater treatment in a photobioreactor using locally available microalgal bloom  | PI: Dr. Md. Imran Kabir, Associate<br>Professor, Dept of CEE & CI: Shilpy Rani<br>Basak, Assistant Professor, Dept of CEE,<br>SUST            | 2 years  |
| 2.     | AS/2020/2/16 | CEE   | Design and fabrication of a novel apparatus for determining cohesion and tension proverty of cohesive soil under pneumatic confinement                              | PI: Professor Dr. Mohammad Shahidur<br>Rahman, Dept of CEE, SUST  | 2 years  |
| 3.     | AS/2021/1/14 | CEE   | Development of a Fecal Sludge Treatment Plant for a small Community: A, case study on SUST Campus   | PI: Dr. Muhammad Azizul Hoque,<br>Professor, Dept of Civil and<br>Environmental Engineering, SUST   | 1 year   |
| 4.     | AS/2021/1/15 | CEE   | Application of information theory in designing optimal discharge monitoring station for Surma River   | PI: Dr. Bijit Kumar Banik, Professor,<br>Dept of Civil and Environmental<br>Engineering, SUST   | 1 year   |
| 5.     | AS/2021/1/16 | CEE   | Modelling vehicle ownership<br>behaviour of Sylhet city dwellers: A<br>discrete<br>choice modelling approach  | PI: Dr. Md. Bashirul Haque, Associate<br>Professor, Dept of CEE & CI: Md.<br>Aminul Islam, Assistant Professor,<br>Dept of CEE, SUST          | 1 year   |
|        |              |       | Session Break   |   |          |
| 6.     | AS/2021/1/18 | CEE   | Utilization of Ladle Refined Furnace (LRF) Slag in Improving Clay Soil Properties for Potential Use as Foundation Materials.  | PI: Sabrin Ara, Lecturer, Dept of CEE & CI: Dr. Shriful Islam, Associate Professor, Dept of CEE, SUST   | 1 year   |
| 7.     | AS/2021/1/01 | ARC   | Heritage of Water: A Cultural<br>Landscape Approach for Sustainable<br>Conservation Planning in Haor<br>Weltland of Sylhet, Bangladesh                              | PI: Kawshik Saha, Associate<br>Professor, Dept of Architecture & CI:<br>Iftekhar Rahman, Associate Professor,<br>Dept of ARC, SUST            | 1 year   |
| 8.     | AS/2021/1/03 | ARC   | An Empirical Study on Settlement Pattern and Architectural Features of Rural Housing in Haor-basin Region of Bangladesh   | PI: Subrata Das, Assistant Professor,<br>Dept of Architecture & CI: Md Arifur<br>Rahman, Lecturer, Dept of<br>Architecture, SUST              | 1 year   |
| 9.     | AS/2021/1/04 | ARC   | Sylhet as a Sustainable City: An Environmental Approach to Low Carbon Practice  | PI: Zannat Ara Dilshad Shangi<br>Assistant Professor Dept of ARC &<br>CI: K. Taufiq Elahi, Associate<br>Professor Dept of ARC, SUST           | 1 year   |
| 10.    | AS/2021/1/43 | ARC   | An Analytical Observation of Street<br>Landscape in Urban Area Focusing<br>on Morphology and Environment<br>Case Study: Sylhet City Corporation<br>Area, Bangladesh | PI: Mohammad Shamsul Arefin,<br>Assistant Profesor, Dept of ARC & CI:<br>Sheikh Nasrin Haque, Assistant<br>Professor, Dept of Sociology, SUST | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: mtuddin-cep@sust.edu

### Technical Session–IX: For Dept. of SOC& SCW Date: Jan 29, 2023 || Time: 11:00 AM – 01.00 PM

Venue: IQAC Conference Room

#### Chair: Prof. Dr. Mohammad Jasim Uddin, Coordinator: Prof. Dr. Tulshi Kumar Das

(Email: tulshikumardas@gmail.com)

#### Each Presentation Time: 07.00 min. and 10.00 min. (2 years projects)

| Sl.No. | Project ID   | Dept. | Project Title   | Researchers Name  | Duration |
|--------|--------------|-------|---|---|----------|
| 1.     | SS/2020/2/38 | SCW   | Health care service utilization and perceptions of service effectiveness by parents of children with disabilities: A study in Sylhet                      | PI: Professor Md. Abdul Jalil, Dept of Social<br>Work & CI: Dr. Mohammed Ali Oakkas,<br>Associate Professor, Dept of Social Work,<br>SUST             | 2 years  |
| 2.     | SS/2021/1/34 | SCW   | Rape cases in Bangladesh: Exploring the barriers and sufferings in Institutional interventions and services.  | PI: Md. Fakhrul Alam, Associate<br>Professor, Dept of Social Work & CI:<br>Dr. Mohammad Ali Oakkas, Associate<br>Professor, Dept of Social Work, SUST | 1 year   |
| 3.     | SS/2021/1/35 | SCW   | Stigma and Coping Experience of Infertile Women in Sylhet   | PI: Priyanka Bhattacharjee, Assistant<br>Professor, Dept of Social Work & CI:<br>Tulshi Kumar Das, Professor, Dept of<br>Social Work, SUST            | 1 year   |
| 4.     | SS/2021/1/36 | SCW   | Impact of COVID-19 on Social Work<br>Education in Bangladesh  | PI: Syeda Sultana Parveen, Professor,<br>Dept of Social Work, SUST  | 1 year   |
| 5.     | SS/2021/1/37 | SCW   | Health vulnerability of older people during COVID 19 outbreak in the tea gardens of Sylhet: A study   | PI: Muhammed Muazzam Hussain<br>Professor, Dept of Social Work & CI:<br>Md Abdul Jalil, Professor, Dept of<br>Social Work, SUST                       | 1 year   |
| 6.     | SS/2021/1/38 | SCW   | Impacts of the COVID-19 Pandemic on the Development Interventions of NGOs in Bangladesh   | PI: Md. Ismail Hossain, PhD,<br>Professor, Dept of Social Work, SUST  | 1 year   |
| 7.     | SS/2021/1/43 | SCW   | Effects of Shrimp Farming with Water Salinity on Social and Local Environment: A Study in the Southwest Coast of Bangladesh                               | PI: Professor Md. Mizanur Rahman,<br>Dept of Social Work, SUST  | 1 year   |
|        |              |       | Session Break   |   |          |
| 8.     | SS/2020/2/42 | SOC   | Environmental Hazards, Vulnerability and<br>Movement of the Margins: Experiences of<br>Climate-induced Migrants in Dhaka and<br>Sylhet Cities, Bangladesh | Professor Dr. Mohammad Jasim Uddin,<br>Dept of Sociology & CI: Mohammad<br>Moniruzzaman Khan, Assistant Professor,<br>Dept of Sociology, SUST         | 2 years  |
| 9.     | SS/2020/2/43 | SOC   | The Distorted Identity: Women's Personhood and Agency at Marital Breakdown in Bangladesh  | Professor Dr. Laila Ashrafun, Head, Dept of Sociology, SUST   | 2 years  |
| 10.    | SS/2020/2/46 | SOC   | Breaking the Barriers: Understanding the<br>Capacity to Aspire to Higher Education of<br>Tea Workers' Children in Bangladesh                              | PI: Professor Dr. Md. Al-Amin, Dept of<br>Sociology & CI: Professor Dr. Md. Nazrul<br>Islam, Dept of Sociology, SUST                                  | 2 years  |
| 11.    | SS/2021/1/39 | SOC   | At what level are teachers concerned<br>about the impact of climate change on<br>food security and livelihoods? a<br>comparative study                    | PI: Professor Dr. Shah Md. Atiqul Haq,<br>Dept. of Sociology, SUST  | 1 year   |
| 12.    | SS/2021/1/40 | SOC   | Bangladeshi migrant workers in the<br>Middle East and Southeast Asian<br>Countries: Experiences during<br>COVID-19  | PI: Professor Dr Mohammad Morad,<br>Dept of Sociology, SUST   | 1 year   |
| 13.    | SS/2021/1/42 | SOC   | Transferring Climate Induced Disaster Risks: Policy, Practices and Readiness of Bangladesh.   | PI: Ashiskumer Banik, Assistant<br>Professor, Dept. of Sociology & CI:<br>Maria Sultana, Assistant Professor,<br>Dept. of SOC, SUST                   | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: tulshikumardas@gmail.com

#### Technical Session – X: For Dept. of PHY and GEE

Date: Jan 29, 2023 || Time: 2.00 PM – 4:00 PM Venue: RC Conference Room

#### Chair: Prof. Dr. Nazia Chawdhury, Coordinator: Prof. Dr. S M Saiful Islam

(Email: director-rc@sust.edu)
Each Presentation Time: 07.00 min.

| Sl.No. | Project ID   | Dept. | Project Title   | Researchers Name   | Duration |
|--------|--------------|-------|---|--|----------|
| 1.     | PS/2021/1/22 | PHY   | Dielectric Properties of Perovskite Cobalt<br>Oxides PrCoO3Across the Insulator-<br>Metal Transition  | PI: Prof. Dr. Shumsun Naher<br>Begum, Dept of Physics, SUST  | 1 year   |
| 2.     | PS/2021/1/23 | PHY   | Preparation and Investigation of Dynamic Dielectric Properties of Ca0.8La0.2Cu3Ti4-yAlyO12-y/2 (y=0.00, 0.02, 0.04 and 0.06) POLYCRYSTALS.                          | PI: Muhammad Omar Faruk,<br>Associate Professor, Dept of Physics<br>& CI: Shahadat Hossain, Assistant<br>Professor, Dept of Physics, SUST        | 1 year   |
| 3.     | PS/2021/1/25 | PHY   | Investigation of the characteristics of Hydroxyapatite nano-particle extracted from different organic and inorganic sources for dental and biomedical applications. | PI: Sajib Kumar Mohonta, Lecturer,<br>Dept of Physics & CI: Sadia<br>Khanam, Lecturer, Dept of Physics,<br>SUST                                  | 1 year   |
| 4.     | PS/2021/1/10 | GEE   | Exploring the relationship between Spatio-temporal changes of urban green space on Land surface temperature in the three coastal cities of Bangladesh               | PI: Md. Tariqul Islam, Assistant<br>Professor, Dept. of GEE & CI: Zia<br>Ahmed, Assistant Professor, Dept. of<br>Geography and Environment, SUST | 1 year   |
| 5.     | PS/2021/1/11 | GEE   | Assessing Drought and its Impact on Agriculture: A Case Study on Bangladesh.  | PI:Towfiqul Islam Khan, Assistant<br>Professor, Dept of GEE & CI: Md.<br>Shafiqul Islam, Assistant Professor<br>Dept of MEE, SUST                | 1 year   |
|        |              |       | Session Break   |  |          |
| 6.     | PS/2021/1/12 | GEE   | Land Use and Land Cover Changes with<br>Ecological Imbalance to the Wetland of<br>the North-Western Bangladesh: An<br>Assessment on 'Chalan Beel'                   | PI: Md. Muyeed Hasan, Assistant<br>Professor, Dept of GEE & CI:<br>Nusrat Jahan Koley, Assistant<br>Professor, Dept of GEE, SUST                 | 1 year   |
| 7.     | PS/2021/1/13 | GEE   | Climate Emergency and Migration:<br>Nature and Consequences in Barguna<br>District of Bangladesh.   | Md. Bahuddin Sikder, Assistant Professor, Dept of GEE & CI: Md. Najmul Kabir, Lecturer, Dept of GEE, SUST  | 1 year   |
| 8.     | PS/2021/1/34 | GEE   | Estimation of environmental pollution and heavy metal contamination around the Magurchara Gas Field area in Moulvibazar, Bangladesh.                                | PI: Shetu Akter, Assistant Professor,<br>Dept of GEE & CI: Shahnaj Shemul,<br>Assistant Professor, Dept of GEE,<br>SUST                          | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: director-rc@sust.edu

# Technical Session – XI: Dept. of BUS Date: Jan 29, 2023 $\parallel$ Time: 2.00 PM – 3:30 PM

Venue: RC Lab

#### Chair: Prof. Dr. Md. Khairul Islam, Coordinator: Prof. Dr. Md. Monirul Islam

(e mail <u>monir.cnu@gmail.com</u>) Each Presentation Time: 07.00 min.

| Sl.No. | Project ID   | Dept. | Project Title   | Researchers Name   | Duration |
|--------|--------------|-------|---|--|----------|
| 1.     | BS/2021/1/02 | BUS   | Factors affecting on corporate reporting practices for sustainable development in Bangladesh: a perspective of Global Reporting Initiative standards          | PI: Professor Dr. Md. Nazrul Islam,<br>Dept of Business Administration,<br>SUST  | 1 year   |
| 2.     | BS/2021/1/03 | BUS   | Investigation into the Impact of<br>Covid -19 on Non-Resident<br>Bangladeshis (NRBs) and inwards<br>remittances of Bangladesh                                 | PI: Sobhana Tanzima Atiq,<br>Assistant Professor, Dept of Business<br>Administration & CI: Sayed Towfiq<br>Mahmood Hasan, Associate Professor,<br>Dept of Business Administration,<br>SUST                         | 1 year   |
| 3.     | BS/2021/1/04 | BUS   | Level of Shariah Compliance and<br>Effect of Shariah Supervisory<br>Board's Attributes on Financial<br>Performance: A Study on Islamic<br>Banks of Bangladesh | PI: Dr. Syed Mohammad Khaled<br>Rahman, Associate Professor, Dept of<br>Business Administration & CI: Dr.<br>Mohammad Ashraful Ferdous<br>Chowdhury, Associate Professor, Dept<br>of Business Administration, SUST | 1 year   |
| 4.     | BS/2021/1/06 | BUS   | Work Life Balance of Female<br>Executives During COVID-19: A<br>Study on Financial Institutions in<br>Bangladesh  | PI: Dr. Md. Khairul Islam, Professor,<br>Dept of Business Administration,<br>SUST  | 1 year   |
|        |              |       | Session Break   |  |          |
| 5.     | BS/2021/1/07 | BUS   | Consumers' Attitude toward Halal<br>Entertainment: A Study on Halal<br>Music  | PI: Professor Dr. Md Monirul Islam,<br>Dept of Business Administration,<br>SUST  | 1 year   |
| 6.     | BS/2021/1/08 | BUS   | Impact of Good Governance on Bank<br>Stability: Evidence from Banking<br>Industry of Bangladesh   | PI: Md. Zillur Rahman, Assistant Professor, Dept of Business Administration & CI: Dr. Mohammad Shahidul Hoque, Professor, Dept of Business Administration, SUST  | 1 year   |
| 7.     | BS/2021/1/09 | BUS   | An Empirical Investigation into the<br>Impact of Covid-19 on Buying<br>Behavior<br>of Organic Food Products in<br>Bangladesh                                  | PI: Sakufa Chowdhury, Assistant<br>Professor, Dept of Business<br>Administration & CI: Sayma Sadia<br>Swaon, Assistant Professor<br>Dept of Business Administration,<br>SUST                                       | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: <a href="monir.cnu@gmail.com">monir.cnu@gmail.com</a>

Technical Session – XII: Dept. of PME and FET Date: Jan. 29,  $2023\parallel$  Time: 2.00 PM – 4:00 PM Venue: IQAC Conference Room

# Chair: Professor Dr. Md. Mozammel Hoque. Coordinator: Prof. Dr. Tamez Uddin (Email: mtuddin-cep@sust.edu)

Each Presentation Time: 07.00 min. (1 year project) 10 min. (2 years projects)

| SI. No.   Project IID   Dept.   Project Title   Researchers Name   | Duration  2 years  2 years |
|--|----------------------------|
| 1. AS/2020/2/55 PME assessment in water for Surma River, Bangladesh  AS/2020/2/57 PME chrough drilling and investigation of ground water quality in SUST campus  AS/2021/1/37 PME Synthetic well logs generation for a hydrocarbon reservoir using soft computing techniques  Prediction of liquid loading for producing wells of Rashidpur Gas Field, Bangladesh  AS/2021/1/39 PME PME Data Driven Production Forecasting of Natural Gas Wells in Bangladesh  AS/2021/1/40 PME PME PME AS/2021/1/40 PME   |                            |
| AS/2021/1/37  AS/2021/1/40  AS/2021/1/41  AS/2021/1/41  AS/2021/1/41  AS/2021/1/41  AS/2021/1/41  AS/2021/1/41  PME  Trough drilling and investigation of ground water quality in SUST campus  Synthetic well logs generation for a hydrocarbon reservoir using soft computing techniques  Synthetic well logs generation for a hydrocarbon reservoir using soft computing techniques  Synthetic well logs generation for a hydrocarbon reservoir using soft computing techniques  PME  Synthetic well logs generation for a hydrocarbon reservoir using soft computing techniques  Professor, Dept of PME & CI: Mahamudul Hashan, Assistant Professor, Dept of PME, SUST  PI: Majedul Islam Khan, Assistant Professor, Dept of IPE, SUST  PI: Majedul Islam Khan, Assistant Professor, Dept of IPE, SUST  PI: Md Sifat Tanveer, Assistant Professor, Dept. of FES, SUST  PI: Md Sifat Tanveer, Assistant Professor, Dept. of PME & CI: Anup Datta, Assistant Professor, Dept. of PME & CI: Mahaz Islam Sonia, Lecturer, Dept of OCG, SUST  AS/2021/1/40  PME  AS/2021/1/41  AS/2021/1/41  PME  AS/2021/1/41   | 2 years                    |
| AS/2021/1/39  AS/2021/1/41  AS |                            |
| 4 AS/2021/1/38 PME producing wells of Rashidpur Gas Field, Bangladesh  5 AS/2021/1/39 PME Data Driven Production Forecasting of Natural Gas Wells in Bangladesh  6 AS/2021/1/40 PME Delineation of ground water potential zones in Gowainghat upazila, Sylhet district - An Integrated Approach SUST  7 AS/2021/1/41 PME PME PME AS/2021/1/41 PME PME AS/2021/1/41 PME   | 1 year                     |
| 5 AS/2021/1/39 PME of Natural Gas Wells in Bangladesh AS/2021/1/39 PME Delineation of ground water potential zones in Gowainghat upazila, Sylhet district - An Integrated Approach SUST  7 AS/2021/1/41 PME AS/2021/1/41 PME AS/2021/1/41 PME AS/2021/1/41 PME PME PME AS/2021/1/41 PME  | 1 year                     |
| AS/2021/1/40 PME Zones in Gowainghat upazila, Sylhet district - An Integrated Approach  Heavy metal pollution and water quality assessment in the water around Tengratila Gas Field, Chattak, Bangladesh.  Professor, Dept of PME & CI: Mahnaz Islam Sonia, Lecturer, Dept of OCG, SUST  PI: Md. Abdullah Al Numanbakth, Assistant Professor, Dept of PME, SUST  | 1 year                     |
| 7 AS/2021/1/41 PME quality assessment in the water around Tengratila Gas Field, Chattak, Bangladesh. PI: Md. Abdullan Al Numanbakth, Assistant Professor, Dept of PME, SUST  | 1 year                     |
| Session Break  | 1 year                     |
| Sobioli Dioux  |                            |
| 8 AS/2021/1/23 FET Varietal and Drying Impact on Onion Powder: Processing, Modification, and Utilization as Functional Ingredients  Varietal and Drying Impact on Onion Powder: Processing, Professor, Dept. of FET & CI: Mukta Roy, Assistant Professor, Dept. of FET, SUST   | 1 year                     |
| AS/2021/1/24 FET Antioxidative food packaging film development based on corn starch incorporated with moringa leaf extract PI: Professor Dr. Wahiduzzaman, Dept. of Food Engineering and Tea Technology, SUST  | 1 year                     |
| Ultrasound and Osmotic Pre-treated Drying of Mango Using Microwave and Convective Drier: An Approach to Minimize Drying Time and Quality Degradation  PI: A.S.M. Sayem, Assistant Professor and CI: Mr. Mahabub Alam, Lecturer, Dept. of FET, SUST   | 1 year                     |
| Biochemical Profiling and Sensory Evaluation of Tea Concentrate: Prospective of Production of Instant Tea  PI: Dr. Iftekhar Ahmad, Professor, Dept. of Food Engineering and Tea Technology, SUST   | 1 year                     |
| 12 AS/2021/1/28 FET Taro (Colocasia esculenta) Mucilage: Extraction Optimization, Characterization, Functionality and Application PI: Dr. Rowshon Ara, Professor & CI: Md. Rahmatuzzaman Rana, Associate Professor, Dept. of FET, SUST   | 1 year                     |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email:  $pollen\_forest@yahoo.com$ 

# Technical Session– XIII: For Dept of CEP Date: Jan. 29, 2023 $\parallel$ Time: 400 PM – 6:00 PM

Venue: RC Conference Room

#### Chair; Prof. Dr. Md Akhtarul Islam, Coordinator: Prof. Dr. Tamez Uddin

(Email: mtuddin-cep@sust.edu)
Each Presentation Time: 07.00 min.

| Sl.<br>No. | Project ID   | Dept.               | Project Title   | Researchers Name  | Duration |
|------------|--------------|---------------------|---|---|----------|
| 1.         | AS/2021/1/05 | СЕР                 | Enhancement of photocatalytic activity of visible light activated photocatalyst for the degradation of toxic organics in environment  | PI: Professor Dr. Md. Tamez Uddin,<br>Dept of CEP & CI: Shafiul Hossain,<br>Assistant Professor, Dept of CEP,<br>SUST                                 | 1 year   |
| 2.         | AS/2021/1/07 | СЕР                 | Production of Renewable Liquid<br>Hydrocarbons from Tallow  | PI: Professor Dr Md Zakir Hossain,<br>Dept of Chemical Engineering &<br>Polymer Science, SUST   | 1 year   |
| 3.         | AS/2021/1/08 | CEP                 | Extraction of Heavy Metal from Waste Smartphone: A Case Study   | PI: Professor Dr. Salma Akhter,<br>Dept. of CEP, SUST   | 1 year   |
| 4.         | AS/2021/1/09 | СЕР                 | Development of conductive polymer-<br>based supercapacitor (Extension)  | PI: Dr. Md. Mostafizur Rahman,<br>Associate Professor, Dept of CEP & CI:<br>Dr. M. Zobayer Bin Mukhlish,<br>Associate Professor, Dept of CEP,<br>SUST | 1 year   |
| 5.         | AS/2021/1/10 | GEB<br>(old<br>CEP) | Pulsed electric field in urban waste water treatment plant: a novel water disinfection technology to prevent antibiotic resistant bacteria and gene transfer to the environment | PI: Professor Dr. Md Asraful Jahan,<br>Dept of GEB, SUST  | 1 year   |
|            |              |                     | Session Break   |   |          |
| 6.         | AS/2021/1/11 | СЕР                 | Effect of aeration pattern on determination of granular size as well as nitrogen removal  | PI: Rahatun Akter, Assistant Professor,<br>Dept of Chemical Engineering and<br>Polymer Science, SUST  | 1 year   |
| 7.         | AS/2021/1/12 | СЕР                 | Evaluation of polylacticacid (PLA) production process and its links to the PLA propertie  | PI: Md. Mohibul Alam,<br>Associate Professor, Dept of Chemical<br>Engineering and Polymer Science,<br>SUST  | 1 year   |
| 8.         | AS/2021/1/44 | СЕР                 | Enhancement of biomethane yield in<br>biogas by dry anaerobic digestion of<br>municipal solid waste (an extension<br>of previous study)   | PI: Professor Dr. Abu Yousuf, Dept of CEP & CI: Md. Anisur Rahman, Assistant Professor, Dept of CEP, SUST   | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: mtuddin-cep @ sust.edu

#### Technical Session-XIV: For Dept. of STA, OCG & GEE

Date: Jan. 29, 2023  $\parallel$  Time: 4:00PM - 6:00 PM

Venue: IQAC Conference Room

#### Chair: Prof. Dr. Sabina Islam, Coordinator: Professor Dr. Md. Rashed Talukder

(E mail: r.talukder-mat@sust.edu)

Each Presentation Time: 07.00 min. (1 year projects) and 10 min (2 years' projects)

| C1         |              |       | n Time: 07.00 min. (1 year projects) and   | projects)  | ъ .      |
|------------|--------------|-------|--|--|----------|
| Sl.<br>No. | Project ID   | Dept. | Project Title  | Researchers Name   | Duration |
| 1.         | PS/2020/2/30 | STA   | Lifestyle and dietary patterns of high school<br>going students in north-eastern part of<br>Bangladesh   | PI: Professor Dr. Mohammad Ohid Ullah,<br>Dept of Statistics, SUST   | 2 years  |
| 2.         | PS/2020/2/31 | STA   | Exploring the Community Perceptions,<br>Preventive and Impacts on an Outbreak of<br>Novel Coronavirus (COVID-19) in Dhaka<br>Division, Bangladesh  | PI: Professor Dr. Md. Azizul Baten, Dept<br>of Statistics, SUST  | 2 years  |
| 3.         | PS/2020/2/32 | STA   | Capital formation through Expatriate's<br>Remittances: A study on Investment in<br>Education   | PI: Professor Dr. Md. Zakir Hossain, Dept<br>of Statistics, SUST   | 2 years  |
| 4.         | PS/2020/2/36 | STA   | Critical essence of Psychological readiness:<br>An Empirical Investigation on online<br>learning collaborative environment during<br>Covid- 19 and post Covid effects on<br>secondary school of Bangladesh | PI: Professor Dr. Md. Kabir Hossain, Dept<br>of Statistics & CI: Dr. Mohammad<br>Mizenur Rahman, Associate Professor,<br>Dept of Business Administration, SUST | 2 years  |
| 5.         | PS/2021/1/26 | STA   | Impact of Covid-19 on the living standard of the microcredit beneficiaries: Evidence from Sunamganj District in Bangladesh   | PI: Professor Dr. Md. Kabir Hossain,<br>Dept of Statistics, SUST   | 1 year   |
| 6.         | PS/2021/1/27 | STA   | Perceived Psychological Stress and Its<br>Factors among Urban Poor People in<br>Sylhet Division due to COVID-19<br>Pandemic: Perception and Practices<br>Based Assessment                                  | PI: Professor, Dr. Md. Azizul Baten,<br>Dept of Statistics, SUST   | 1 year   |
|            |              |       | Session Break  |  |          |
| 7.         | PS/2021/1/28 | STA   | Modeling and Forecasting Trend of<br>Global Warming in Bangladesh Using<br>Machine Learning  | PI: Professor Dr. Khalidur Rahman,<br>Dept. of Statistics & Husne Ara<br>Chowdhury, Associate Professor,<br>Dept. of Computer Science &<br>Engineering, SUST   | 1 year   |
| 8.         | PS/2021/1/29 | STA   | Regional Changes and Variability in<br>Prevalence of Corona Virus Disease-19<br>(COVID-19) in SAARC Countries  | PI: Dr. Mohammed Taj Uddin,<br>Professor, Dept of Statistics & Dr.<br>Md. Nazrul Islam, Professor, Dept of<br>Statistics, SUST                                 | 1 year   |
| 9.         | PS/2021/1/32 | STA   | Relationships between corona anxiety<br>and the development of COVID-19<br>Symptoms: A case Study of Sylhet,<br>Bangladesh   | PI: Professor Dr. Luthful Alahi<br>Kawsar, Dept of Statistics & CI:<br>Mohammad Romel Bhuia, Associate<br>Professor, Dept of Statistics, SUST                  | 1 year   |
| 10.        | PS/2021/1/33 | STA   | COVID-19 pandemic, mental health and job uncertainty among university students: A case study of SUST, Sylhet, Bangladesh.  | PI: Dr. Mirza Nazmul Hasan,<br>Associate Professor, Dept. of<br>Statistics, SUST   | 1 year   |
| 11.        | PS/2021/1/18 | OCG   | Phytoplankton ecology in the coastal area of Bangladesh  | PI: Dr. Subrata Sarker, Assistant<br>Professor, Dept of Oceanography &<br>CI: MD Shajjadur Rahman, Lecturer,<br>Dept. of Oceanography, SUST                    | 1 year   |
| 12.        | PS/2021/1/19 | OCG   | Oyster diversity habitat relationship with environmental variables in the coastal zone of Bangladesh   | PI: Muhammad Mizanur Rahman,<br>Lecturer, Dept of Oceanography & CI:<br>Ms. Morgina Akter, Dept of<br>Oceanography, SUST                                       | 1 year   |

Please submit your Presentation file at least 48 hours before your presentation to the email:

#### r.talukder-mat@sust.edu

Technical Session – XV: Dept. of ECO Date: May Jan.29, 2023 || Time: 3.30 PM – 4:30 PM Venue: RC Lab

Chair: Professor Dr. Mohammad Abdul Munim Joarder, Coordinator: Prof. Dr. Md. Monirul Islam

(e mail: <a href="monir.cnu@gmail.com">monir.cnu@gmail.com</a>)

Each Presentation Time: 07.00 min. and 10.00 min.

| Sl.No. | Project ID   | Dept. | Project Title  | Researchers Name   | Duration |
|--------|--------------|-------|--|--|----------|
| 1.     | SS/2021/1/12 | ECO   | Mental ill-health of working women:<br>Does family formation and labor<br>market condition matter?                           | PI: Chowdhury, Abdullah-Al-Baki<br>Assistant Professor, Dept of<br>Economics & CI: Tarik Aziz,Lecturer,<br>Dept of Economics, SUST               | 1 year   |
| 2.     | SS/2021/1/14 | ECO   | Remittances and household<br>expenditure behaviour on human<br>capital: Evidence from Sylhet                                 | PI: Dr. Md. Mahbubul Hakim,<br>Associate Professor, Dept of<br>Economics & CI: Farhana Ahmed,<br>Assistant Professor, Dept of<br>Economics, SUST | 1 year   |
| 3.     | SS/2021/1/15 | ECO   | Impact of Maternal Employment on<br>Child Health in Khasi Matrilineal<br>Indigenous Community of<br>Northeastern Bangladesh. | PI: Eshrath Sadiya, Lecturer, Dept of<br>Economics & CI: Dr. Mohammad<br>Abdul Munim Joarder, Professor,<br>Dept of Economics, SUST              | 1 year   |
| 4.     | SS/2021/1/16 | ECO   | Does Poverty Hinder Cognitive Skills Development? An Empirical Study from Sylhet City  | PI: Md. Gias Uddin Khan, Assistant<br>Prof, Dept of ECO & CI: CI Prof. Dr.<br>Mohammad Abdul Hannan Prodhan,<br>Dept of ECO, SUST                | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: <a href="monir.cnu@gmail.com">monir.cnu@gmail.com</a>

# Technical Session – XVI: Dept. of ENG, BAN and IML Date: Jan 29, 2023 $\parallel$ Time: 4.30 PM – 6:00 PM

Venue: RC Lab

#### Chair: Professor Dr. Muhammad Alamgir Toimoor, Coordinator: Prof. Dr. Tulshi Kumar Das

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Each Presentation Time: 07.00 min. and 10.00 min. (2 years project)

| Sl.No. | Project ID   | Dept. | Project Title  | Researchers Name   | Duration |
|--------|--------------|-------|--|--|----------|
| 1.     | SS/2020/2/22 | ENG   | Language learning and other motivations<br>to study English literature: An exploration<br>of public universities in Bangladesh   | PI: Dr. Mohammad Shafiqul Islam,<br>Associate Professor & CI: Ms. Tasnim<br>Mizan Chowdhury, Lecturer, Dept of<br>English, SUST                  | 2 years  |
| 2.     | SS/2021/1/17 | ENG   | Rizia Rahman's Surjo Sabuj Rokto<br>(Sun Green Blood): A Literary<br>Perspective on the Human Rights<br>Crisis of the Tea Garden Workers and<br>their Real-time Status | PI: Md. Ishrat Ibne Ismail, Associate<br>Professor, Dept of English & CI:<br>Sahelee Parveen Dipa, Assistant<br>Professor, Dept of English, SUST | 1 year   |
| 3.     | SS/2021/1/19 | ENG   | English Language Classroom Anxiety among the Undergraduate   | PI: Professor Dr. Himadri Sekhar Roy,<br>Dept of English, SUST   | 1 year   |
| 4.     | SS/2021/1/08 | BNG   | চা শ্রমিকদের 'দেশোয়ালি' ভাষা :<br>ভাষাতাত্ত্বিক ও ভাষা-পরিস্থিতি পর্যবেক্ষণ   | পিআই: ড. মো. আশ্রাফুল করিম, অধ্যাপক,<br>বাংলা বিভাগ, শাবিপ্রবি, সিলেটে।  | 1 year   |
| 5.     | SS/2021/1/09 | BNG   | দারিদ্র্য : নজরুল জীবনে ও সাহিত্যে   | পিআই: ড. মো. রিজাউল ইসলাম<br>অধ্যাপক, বাংলা বিভাগ, শাবিপ্রবি, সিলেট।   | 1 year   |
| 6.     | SS/2021/1/10 | BNG   | সমাজভাষাবিজ্ঞান অনুশীলন ও পরিভাষা<br>কোষ'।   | পিআই: ড. মো. জফির উদ্দিন<br>সহযোগী অধ্যাপক , বাংলা বিভাগ , শাবিপ্রবি ,<br>সিলেট।   | 1 year   |
| 7.     | SS/2021/1/11 | IML   | Comon barriers learning French as a forign language in Bangladesh  | PI: Riadul Islam, Assistant Professor in French, IML & CI: Mahabuba Rahaman, Lecturer, Dept of English, SUST                                     | 1 year   |

<sup>\*</sup>Please submit your Presentation file at least 48 hours before your presentation to the email: tulshikumardas@gmail.com