

**Technical Sessions of the
8th Annual Conference of SUST Research Centre**

Technical Session–I: For Dept. of ARC CSE, EEE & IICT
Date: May 30, 2021 || Time: 1:00 PM – 3:30 PM

Chair: Professor Dr. Md. Mohammad Shahidur Rahman, Host: Professor Md Tamez Uddin
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	AS/2019/1/01	ARC	Campus Morphology and Landscape Ecology : A Case Study for future physical development of Shahjalal University of Science and Technology, Sylhet	Mr. Gourpada Dey, Assistant Professor, Dept of ARC & Mr. Mohammad Tanvir Hasan, Assistant Professor, Dept of ARC, SUST
2.	AS/2019/1/02	ARC	Risk Assessment of fire safety in mixed-use high-rise buildings in Sylhet city in terms of building position, height, means of egress and size, shape and orientation of atrium	Mr. Sazdik Ahmed, Lecturer, Dept of ARC & Mr. Md. Arifur Rahman, Lecturer, Dept of ARC, SUST
3.	AS/2019/1/04	ARC	A Study on Historic Urban Landscape of Sylhet city: An Extended Research	Mr. Kawshik Saha, Assistant Professor, Dept of ARC & Mr. Shubhajit Chowdhury, Assistant Professor Dept of ARC, SUST
4.	AS/2019/1/05	ARC	Planning for Green-blue infrastructure: An assessment of urban landscape of Sylhet city	Mr. Hossain Mohammad Nahyan, Assistant Professor, Dept of ARC, SUST
5.	AS/2018/2/25	CSE	Securing Digital Services of SUST	PI: Dr. Md. Sadek Ferdous, Assistant Professor, Dept of CSE & Dr. Mohammad Shahidur Rahman, Professor, Dept of CSE, SUST
6.	AS/2018/2/26	CSE	Identify Students harassments in campus environment and use ICT based platform for supporting victims	Dr. Md. Forhad Rabbi, Associate Professor, Dept. of CSE & Zafrin Ahmed Liza, Assistant Professor, Dept of ANP, SUST
7.	AS/2019/1/18	CSE	Developing an Emotional Speech Corpus in bangla and a Web Application	Professor Dr. M. Shahidur Rahman, Dept of CSE & Sadia Sultana, Assistant Professor, Dept of CSE, SUST
8.	AS/2019/1/22	CSE	Integrating Linguistic Knowledge into English-Bangla Neural Machine Translation	Professor Mohammad Abdullah Al Mumin, Dept of CSE, SUST
9.	AS/2019/1/25	CSE	Source Code an upgraded version of SUST Online Judge (SOJ) with multiple languages support and feature expansion	Mr. Md. Saiful Islam, Assistant Professor, Dept of CSE & Mr. Biswapriyo Chakrabarty, Assistant Professor, Dept of CSE, SUST
10.	AS/2019/1/26	EEE	Centralized Power Monitoring & Management System of an Institution Based on Android Apps	Mr. Arif Ahemd, Assistant Professor, Dept of EEE & Mr. Jibesh Kanti Saha, Assistant Professor, Dept of EEE, SUST
11.	AS/2019/1/27	EEE	Design and development of a Smart Wheelchair for the Disable Students of an Institution	Showmik Singha, Lecturer, Dept of EEE, SUST
12.	AS/2019/1/37	IICT	Autonomous Vehicle for SUST	Mr. Asif Mohammad Samir, Assistant Professor, Dept of IICT & Mr. Quazi Ishtiaque Mahmud, Lecturer, Dept of IICT, SUST
13.	AS/2019/1/38	IICT	A Dictionary-Based Compression Technique for Bengali Text	Mr. Ahsan Habib, Lecturer, IICT & Mr. Fazle Mohammad Tawsif, Lecturer, IICT, SUST

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

Date: May 30, 2021 || Time: 1:00 PM – 3:30 PM

Chair: Dr. Huhammad Alamgir Toimoor. Host: Professor Dr. Tulshi Kumar Das
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	SS/2018/2/24	ANP	Menstrual hygiene management for secondary school students: A KAP study among adolescent girls in Sylhet Division	Nur Mohammad Majumder, Associate Professor Dept. of ANP & Mrs. Amina Khatun, Assistant Professor, Dept. of ANP, SUST
2.	SS/2018/2/25	ANP	Organizational diversity towards Social unity: An anthropological survey on potentials of ethnic organizations to redefine social cohesion in CHT	Dr. Chowdhury Farhana Jhuma, Associate Professor, Dept of ANP & Sanjay Krishno Biswas, Assistant Professor, Dept of ANP, SUST
3.	SS/2019/1/01	ANP	Understanding the 'Host' and 'Guest' Dynamics: A Study on the Effects of Rohingya Influx on the People of Palongkhali Union on Ukhiya, Bnagladesh	AFM Zakaraia, Associate Professor, Dept. of ANP & Mohammad Javed Kaiser Ibne Rahman, Assistant Professor, Dept. of ANP, SUST
4.	SS/2019/1/02	ANP	Understanding the Necessity of Establishing a Students Support Services Center at SUST Campus A need based assessment for ensuring a sustainable academic environment for the students of Shahjalal University of Science and Technology, Sylhet, Bangladesh	Mr. Halima Akther, Assistant Professor, Dept of ANP & Dr. Farida Chowdhury, Associate Professor, Dept of CSE, SUST
5.	SS/2019/1/03	ANP	Realities of Expectations: Struggles, Problems and Adaption Strategies of the Slum Dwellers in Sylhet City, Bangladesh	Md. Mokhlesur Rahman, Associate Professor, Dept of ANP & Mohammad Mounjur-Ul-Haider, Lecturer, Dept of ANP, SUST
6.	SS/2019/1/04	ANP	A path to Solar Park from the Energy Crisis in Bangladesh : Understanding sustainable development and Social impact of Teknaf Solar Power plant	Mr. Zafrin Ahmed Liza, Assistant Professor, Dept of ANP, SUST
7.	SS/2018/2/26	BNG	সিলেটের লোকসংগীত: অন্বেষণ ও বৈশিষ্ট্য নিরূপন, শ্রেণিকরণ ও কবি-পরিচয় এবং ভাবসম্পদ বিচার	ড. মো. জফির উদ্দিন, সহযোগী অধ্যাপক বাংলা বিভাগ এবং মো. মাসুদ পারভেজ, সহকারী অধ্যাপক, বাংলা বিভাগ, শাবিপ্রবি
8.	SS/2019/1/06	BNG	সিলেট নগরীলিপি ও সাহিত্য : উদ্ভবের শ্রেণীপট, কবি-পরিচিতি ও রচনা-পরিচয়	মো. আবু বকর সিদ্দিক, প্রভাষক, বাংলা বিভাগ এবং ড. মো. জফির উদ্দিন, সহযোগী অধ্যাপক, বাংলা বিভাগ, শাবিপ্রবি।
9.	SS/2019/1/16	ENG	Use of Literature in Learning English and Its Effectiveness: A case study on the Department of English Students at SUST	Professor Dr. Hossain Al Mamun, Dept of ENG, SUST

Technical Session-III: For Dept. of MAT, PHY, & OCG
Date: May 30, 2021 | Time: 1:00 PM – 3:30 PM

Chair: Prof. Dr. Nazia Chowdhury. Host: Professor Dr. Md. Rashed Talukder
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	PS/2018/2/18	MAT	Study on domain integrals and automatic mesh generation- An attempt to develop software for solving engineering problems	Professor Dr. Shajedul Karim, Dept. of Mathematics & Mr. Md. Matiar Rahman, Assistant Professor, Dept. of Mathematics, SUST
2.	PS/2018/2/19	MAT	Representation of 0-Modular p Algebras	Professor Dr. Shamsun Naher Begum, Dept of MAT & Dr. Chandrani Nag, Associate Professor, Dept of MAT, SUST
3.	PS/2018/2/20	MAT	Large Eddy Simulation of turbulent flows in some benchmark problems by using different sub-grid scale and wall stress models	Professor Dr. Md. Ashraf Uddin, Dept. of MAT, SUST
4.	PS/2018/2/21	MAT	Comparison of Picard and Newton iterative schemes in the finite element modeling for one-dimensional variably saturated-unsaturated flows	Professor Dr. Mohammad Sayful Islam, Dept of MAT & Razwan Ahamad, Associate Professor, Dept of MAT, SUST
5.	PS/2019/1/19	MAT	Generalized Derivations acting as Homomorphisms and Anti-homomorphisms in Semiprime Gamma Rings	PI: Professor Dr. Sujoy Chakraborty, Dept. of MAT, SUST
6.	PS/2019/1/20	MAT	Enumeration of η -element posets by using poset matrix	Mohammad Salah Uddin, Assistant Professor, Dept of MAT & Professor Dr. Md. Rashed Talukder, Dept of MAT, SUST
7.	PS/2019/1/22	MAT	Mathematical model and analysis of the dynamics of prion proliferation	Amit Kumar Chakraborty, Lecturer, Dept of MAT & S. M Saydur Rahman, Lecturer, Dept of MAT, SUST
8.	PS/2018/2/22	PHY	Relativistic wave-packet generation with application to nanophysics	Professor Dr. Syed Badiuzzaman Faruque, Dept of PHY & Ponkog Kumar Das, Assistant Professor, Dept of PHY, SUST
9.	PS/2019/1/27	PHY	Effect of pressure on the properties of solids- an attention on the valence change	Prof. Dr. Abdul Hannan, Dept. of PHY, SUST
10.	PS/2019/1/28	PHY	Characterization of Organic and Bio-molecules using Molecular Dynamics on High Performance Computing system	Dr. Md. Enamul Hoque, Assistant Professor, Dept of PHY & Mr. Jaseer Ahmed, Lecturer, Dept of PHY, SUST
11.	PS/2019/1/29	PHY	Investigation of the Electrical properties of Polycrystalline Ca _{1-x} LaxCu ₃ Ti _{3.34} Al _{0.06} O _{11.97}	Muhammad Omar Faruk, Associate Professor, Dept of PHY & Shahadat Hossain, Lecturer, Dept of PHY, SUST
12.	PS/2019/1/24	OCG	Gateway to Adaptation for Poor, Vulnerable and Disadvantaged People in Face of Climate Change along the Bangladesh Coast	Md. Ahsanul Islam, Lecturer, Dept of OCG & Md. Shahadat Hossain, Assistant Professor, Dept of CEP, SUST
13.	PS/2019/1/25	OCG	Blue Economy Issues: Comparative analysis among three seaweed species (Hypnea, Enteromorpha, and Gelidium) on the basis of proximate composition, mineral content, and their heavy metal toxicity	Md. Solaiman Hossain, Lecturer, Dept of OCG & Sharmin Akter, Lecturer, Dept of PME, SUST

Technical Session–IV: For Dept. of CHE

Date: May 30, 2021 | Time: 03:30 PM – 7:00 PM

Chair: Prof. Dr. Sayed Shamsul Alam Host: Prof. Dr. S.M. Saiful Islam
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	PS/2018/2/14	CHE	Design, Synthesis, and Characterization of a series of water soluble triazole ligands for transition metal complexes	Dr. Md. Mahbulul Alam, Professor, Dept. of Chemistry & Md. Masum Talukder, Assistant Professor, Dept. of Chemistry, SUST
2.	PS/2018/2/15	CHE	Design, Synthesis, Characterization, and study of Optical Properties of a series of new p- Anisolythiol-Funtionalized Platinum (II) Bis (Alkenylarylalkynyl)	Dr. Md. Mostafizur Rahman , Associate Professor, Dept. of Chemistry & Dr. Dipen Debnath, Professor, Dept. of Chemistry, SUST
3.	PS/2018/2/16	CHE	Microwave Assisted an Efficient and Green Procedure for the Synthesis of Olefinic (unsaturated) Arylidene Compounds by Reaction of Active Methylene Compounds with Carbonyl Compounds using TPP or BiCl ₃ or NH ₄ OAc as a promoter	Professor Dr. Md. Mizanur Rahman, Dept. of Chemistry, SUST
4.	PS/2018/2/17	CHE	Fabrication, Characterization of Quantum Dot-Dye sensitized Solar Cells	Professor Dr. Md. Nizam Uddin, Dept of Chemistry, SUST
5.	PS/2019/1/01	CHE	Schiff base complexes of Ni(II), Pd(II), Cu(II), Zn(II) and Fe(II) metals and their nano oxide: Synthesis, Characterization and antibacterial activity	Dr. Md. Azharul Arafath, Associate Professor, Dept of CHE & Professor Dr. Mohammad Salim, Dept of CHE, SUST
6.	PS/2019/1/02	CHE	Synthesis, X-ray crystal structure and photoluminescence studies of M(II) complexes of the bidentate N,S donor ligand	Mst. Sabina Begum, Ph.D, Professor, Dept of CHE & Dr. Mst. Khurshida Begum, Professor, Dept of Physics, SUST
7.	PS/2019/1/03	CHE	Synthesis and study of the liquid crystalline properties of dimesogens with azomethine linkages	PI: Professor Dr. Rockshana Begum, Dept of CHE, SUST
8.	PS/2019/1/04	CHE	Assessment of the behavior and toxicity of persistent organic micro pollutants in water and sediment of a Chittagong Harbor	Dr. Shishir Kanti Pramanik, Assistant Professor, Dept of CHE & Dr. Md. Mostafizur Rahman, Associate Professor, Dept of CHE, SUST
9.	PS/2019/1/06	CHE	Development of multi-metal oxide nanocomposites and evaluating the feasibility as efficient reusable photocatalyst, antibacterial agent and DNA binding materials	Mr. Pallab Chandra Saha, Lecturer, Dept of CHE & Professor Dr. Md. Abdus Subhan, Dept of CHE, SUST
10.	PS/2019/1/07	CHE	Development of a single Electrochemical Sensor for the Co-detection of Major Toxic Heavy Metal Ions(HMIs) in Water	Dr. S.M Nizam Uddin, Lecturer, Dept of CHE & Professor Dr. Md. M. A. Hasnat, Dept of CHE, SUST
11.	PS/2019/1/09	CHE	Role of Bi ₂ O ₃ on the synthesis, optical, morphology and thermal properties of Poly(Ani-co-Py)/Bi ₂ O ₃ composites: Application as photocatalyst for water purification	Professor Dr. Mohammad Mizanur Rahman Khan, Dept of CHE & Md. Masum Talukder, Assistant Professor, Dept of CHE, SUST
12.	PS/2019/1/12	CHE	Design, synthesis, spectroscopic characterization, antibacterial activity, and conductance property studies of transition metal complexes containing macrocyclic ligand	Mr. Ramkrishna Saha, Assistant Professor, Dept of CHE & Professor Dr. Md. Mahbulul Alam, Dept of CHE, SUST
13.	PS/2019/1/13	CHE	Synthesis of Biaryls Through Electron-Transfer Oxidation of Organo-Cuprates with 1,2-Dibromoethylbenzene	Professor Dr. Mohammad Jalilur Rahman, Dept of CHE, SUST

Technical Session–V: For Dept. of STA & GEE
Date: May 30, 2021 || Time: 03:30 PM – 7:00 PM

Chair: Prof. Dr. Md. Zakir Hossain. Host: Professor Dr. Md. Rashed Talukder
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	PS/2018/2/23	STA	Extent of lifestyle and heritability effects on cancer Bangladesh perspective	Dr. Mohammad Ohid Ullah, Professor Dept. of Statistics, SUST
2.	PS/2018/2/24	STA	Disaggregate level maternal health care indicators in Sylhet division: An Application of Area-level Small Area Estimation Method	Professor Dr. Sabina Islam, Dept. of STA, SUST
3.	PS/2018/2/25	STA	Evaluation of Performance Efficiency of Primary teachers on ICT use in Sunamganj District of Bangladesh	Professor Dr. Kabir Hossain, Dept of Statistics, SUST
4.	PS/2018/2/26	STA	Evaluation of rice farm's efficiency and adaptation through local knowledge and community based knowledge: A case study of Bangladesh	Dr. Kanis Fatema Ferdushi, Assistant Professor, Dept of STA & Professor Rahmat Ali, Dept of STA, SUST
5.	PS/2018/2/37	STA	Climate Vulnerability, Adaptive Capacity and Food Security: A study of Wetland-Communities in Sunamgonj, Bangladesh	Professor Dr. Azizul Baten, Dept. of Statistics, SUST
6.	PS/2019/1/31	STA	Statistics anxiety and its influence on academic Performance among the undergraduate students: A case study of SUST, Sylhet	Dr. Luthful Alahi Kawsar, Associate Professor, Dept of STA & Dr. Md. Atiqul Islam, Associate Professor, Dept of STA, SUST
7.	PS/2019/1/32	STA	Urban-Rural Differentials in Nutritional Status of Elderly in Sunamgonj District of Bangladesh Based on BMI	PI: Professor Dr. Mohammad Taj Uddin, Dept of STA & Professor Dr. Ahmed Kabir, Dept of STA, SUST
8.	PS/2019/1/33	STA	Study on Volatility of Selected Financial Institutions of Dhaka Stock Exchange (DSE), Bangladesh	Mr. Nahid Sultana, Assistant Professor, Dept of STA & CI: Professor Dr Md. Azizul Baten, Dept of STA, SUST
9.	PS/2019/1/35	STA	Quantitative Measure of Elderly Health Status in Sylhet District: A Frailty Index Approach	Professor Dr. Md. Nazrul Islam, Dept of STA, SUST
10.	PS/2019/1/14	GEE	Spatio-temporal analysis of nutrient and heavy metal in water and sediment collected from the lower Meghna River in the active Ganges delta	Mr. Zia Ahmed, Assistant Professor, Dept of GEE & Rony Basak, Assistant Professor, Dept of GEE, SUST
11.	PS/2019/1/15	GEE	Spatial and temporal variation of climate variability specially temperature and rainfall at Chattogram region of Bangladesh	Mr. Towfiqul Islam Khan, Lecturer, Dept of GEE & Mohd. Mahfuzur Rahman, Lecturer, Dept of MEE, SUST
12.	PS/2019/1/16	GEE	Environmental Condition of Baikka <i>Beel</i> and Its Interaction with Human: A Physico-chemical and Social Assessment	Mr. Shetu Akter, Lecturer, Dept of GEE & Mr. Shahnaj Shemul, Lecturer, Dept of GEE, SUST
13.	PS/2019/1/17	GEE	A Comparative Study on Coastal Morphodynamics in the Nearshore of Bangladesh: The Case on Cox's Bazar and Kuakata Beaches	Md. Bahuddin Sikder, Assistant Professor, Dept of GEE & Syeda Ayshia Akter, Assistant Professor, Dept of GEE, SUST

Technical Session–VI: For Dept. of GEB
Date: May 30, 2021 || Time: 03:30 PM – 7:00 PM

Chair: Prof. Dr S. M. Abu Sayem. Host: Prof. Dr. Md. Shamsul Haque Prodhan
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	LS/2018/2/08	GEB	Evaluation of production performance, carcass quality and immunological parameters in broiler chickens using onion (<i>Allium cepa</i>) and garlic (<i>Allium Sativum</i>) extract as growth promoters	Dr. Asif Iqbal, Associate Professor, Dept of GEB & Dr. Md. Mostafizar Rahman, Dept of FET, SUST
2.	LS/2018/2/09	GEB	In vitro Inhibition of Key Enzymes Linked to Diabetes by Protein Extracts from <i>Piper betle</i> Leaves: A Nobel Approach to Manage Diabetes Mellitus	Professor Dr. Jahangir Alam, GEB, SUST
3.	LS/2019/1/06	GEB	Evaluation of the Antibiotic-Resistant Bacteria in the Circulating Currencies (Taka) of Bangladesh	Mr. Moshul Alam Mishu, Lecturer, Dept of BMB & Professor Dr. Md. Kamrul Islam, GEB, SUST
4.	LS/2019/1/08	GEB	Development of low-cost on device cell culturing system using superabsorbent pad based passive pump	Dr. Gokul Chandra Biswas, Associate Professor, Dept of GEB & Professor Dr. Md. Jahangir Alam, Dept of GEB, SUST
5.	LS/2019/1/09	GEB	Characterization of Natural Compounds from <i>Kalancheoe crenata</i> to Cancer Cells Prevention	Dr. Md. Jahangir Alam, Assistant Professor, Dept of GEB & Professor Dr. Md. Abdullah Mamun, Dept of GEB, SUST
6.	LS/2019/1/10	GEB	Morphological Evaluation of Some Rice Landraces of Coastal Areas and Expression Analysis of already Reported Salt Tolerant Genes under Salinity Stress	Mr. G.M Nuranabi Azad Jewel, Lecturer, Dept of GEB & Md. Hammadul Hoque, Assistant Professor, Dept of GEB, SUST
7.	LS/2019/1/11	GEB	Test of ethylenediurea (EDU) as a biomonitoring and screening tool to diagnose ozone damage in field-grown rice (<i>Oryza sativa</i> L.)	Dr. Md. Ashrafuzzaman, Associate Professor, Dept of GEB & Asif Mahmud, Lecturer, Dept of GEB, SUST
8.	LS/2019/1/12	GEB	Development of high yielding short duration rice variety for hoar areas through hybridization and biotechnological approaches	Md. Akkas Ali, Lecturer, Dept of GEB & Professor Dr. Mohammad Jakir Hosen, Dept of GEB, SUST
9.	LS/2019/1/13	GEB	Molecular Identification and Characterization of Antibiotic Resistant Genes of Superbugs in Clinical and Hospital Wastes Samples	Md. Toasin Hossain, Lecturer, Dept of GEB & Professor Dr. Md. Abul Kalam Azad, Dept of GEB, SUST

Technical Session–VII: For Dept. of PAD, & PSS
Date: May 31, 2021 || Time: 10.00 AM – 12:30 PM

Chair: Prof. Anwara Begum Host: Prof. Dr. Tulshi Kumar Das
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	SS/2018/2/31	PAD	Impact of e-Governance on Socio-economic Development in Hoar Region of Bangladesh: A Study on Union Digital Center	Professor Zayeda Sharmin, Dept. of PSS & Mohammad Samiul Islam, Assistant Professor, Dept of PAD, SUST
2.	SS/2018/2/34	PAD	Accessibility and Affordability to Public Health Care Delivery for Urban Poor People, Sylhet	Professor Dr. Md. Shafiqul Islam, Dept of PAD & Muhammad Mustofa Kamal, Lecturer, Dept of PAD, SUST
3.	SS/2019/1/20	PAD	Effect of Digitalization on Gender Equality in Union Digital Centers of Haor Region: A Study on Kishoreganj District	Mohammad Samiul Islam, Assistant Professor, Dept of PAD & Professor Zayeda Sharmin Ph.D, Dept of PSS, SUST
4.	SS/2019/1/21	PAD	Confidence in the police performance: Can community policing make a difference	Chowdhury Abdullah Al-Hossienie, Assistant Professor, Dept of PAD & Kanij Fatema, Assistant Professor, Dept of PAD, SUST
5.	SS/2019/1/22	PAD	Public Participation in Decision Making Process of Local Development and the Role of Elected Representatives: A Comparative Study on Urban and Rural Local Government	Muhammad Mustofa Kamal, Lecturer, Dept of PAD & Sabiana Yasmin, Lecturer, Dept of PAD, SUST
6.	SS/2019/1/24	PAD	Examining the relationship between Managerial practices and performance of Local Government: A study on Union Parishad	Mohammad Shahjahan Chowdhury, Assistant Professor, Dept of PAD & Chowdhury Abdullah-Al-Baki, Assistant Professor, Dept of ECO, SUST
7.	SS/2019/1/25	PAD	Political Economy of Budgeting in Bangladesh: Procedure, Actors and Participation	Md. Mahmud Hasan, Assistant Professor, Dept of PAD & Jobayda Golshan Ara, Lecturer, Dept of PAD, SUST
8.	SS/2018/2/30	PSS	Bridging the Gap between Service Delivery of Local Government Authority and Public's Demand: A Case Study on Sylhet City Corporation	Professor Dilara Rahman, Dept of PSS & Md. Masud Sarker, Associate Professor, Dept of PSS, SUST
9.	SS/2018/2/32	PSS	Adapting to climate change in Bangladesh: The role of Social capital	Professor Syed Ashrafur Rahman, Dept. of PSS, SUST
10.	SS/2018/2/33	PSS	An Investigation if Environmental and Social Effects of Stone Quarrying in Jaflong in the Sylhet, Bangladesh	Mohammad Jahirul Haque, Associate Professor, Dept. of PSS & Hajera Aktar, Assistant Professor, Dept of PAD, SUST
11.	SS/2019/1/26	PSS	Sanitation and Child Health in Semi-Urban and Slum Areas in Sylhet	Dr. Md. Masud Sarker, Associate Professor, Dept of PSS, SUST
12.	SS/2019/1/28	PSS	Alternative Dispute Resolution (ADR): Evaluation of the effectiveness of village court in Alternative Dispute Resolution in violence against women in Bangladesh	Md. Mahbub Alam, Assistant Professor, Dept of PSS & Syeda Ismot Ara Jahan, Assistant Professor, Dept of PSS, SUST

Technical Session–VIII: For Dept of CEP & CEE
Date: May 31, 2021 || Time: 10.00 AM – 12:30 PM

Prof. Dr. Md Akhtarul Islam: Host: Prof. Dr. Tamez Uddin
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	AS/2018/2/19	CEP	Pathogenic waste treatment by Electroporation-A noble technique development	Professor Dr. Engr. Salma Akther, Dept. of CEP & Mohammad Rakib Uddin, Assistant Professor, Dept of CEP, SUST
2.	AS/2018/2/20	CEP	Removal of arsenic by adsorption process using activated carbon derived from agricultural waste	Dr. Muhammad Zobayer Bin Mukhlis, Assistant Professor, Dept of CEP & Mitun Chandra Bhoumick, Assistant Professor, Dept of CEP, SUST
3.	AS/2018/2/21	CEP	Development and Characterization of electrically conductive thermoplastic polymer composite and their Optimization	Dr. Md. Mostafizur Rahman, Assistant Professor, Dept of CEP & Professor Dr. Mohammed Mastabur Rahman, Dept of CEP, SUST
4.	AS/2019/1/14	CEP	Preparation and Characterization of Chitosan-Reinforced Poly (L-lactic acid) Biocomposite for Biomedical Applications	Md. Anisur Rahman, Lecturer, Dept of CEP & Shafiu Hossain, Lecturer, Dept of CEP, SUST
5.	AS/2019/1/15	CEP	Improvement of mechanical and electrical properties of polymer composites using carbon nanofibers	Professor Dr. Mohammaed Mastabur Rahman, Dept of CEP & Dr. Md. Mostafizur Rahman, Associate Professor, Dept of CEP, SUST
6.	AS/2019/1/16	CEP	Risk assessment of the existing fire fighting systems and escape router in selected chemical and textile storage buildings and industries	Ms. Myisha Ahmed Chowdhury, Lecturer, Dept of CEP & Professor Dr. Salma Akther, Dept of CEP, SUST
7.	AS/2019/1/17	CEP	Brick kilns emission: a cause of atmospheric pollution	Md. Delwar Hossain, Lecturer, Dept of CEP & Professor Dr. Md. Salatul Islam Mozumder, Dept of CEP, SUST
8.	AS/2018/2/22	CEE	Investigation of ground water quality and subsurface lithology in St. Martin's Island in order to categorize potential ground water source	Professor Dr. Md. Misbah Uddin, Dept of CEE & Professor Dr. Md. Shofiqul Islam, Dept of PME, SUST
9.	AS/2018/2/23	CEE	Investigating the effectiveness of iron decorated rice husk ash in removing heavy metal and metalloid from aqueous solution	Professor Dr. Muhammad Azizul Hoque, Dept of CEE, SUST
10.	AS/2018/2/24	CEE	Low-cost filter design for treating saline drinking water	Dr. Bijit Kumar Banik, Associate Professor, Dept of CEE & Khairul Hasan, Assistant Professor, Dept of CEE, SUST
11.	AS/2019/1/06	CEE	Torsional Strength of concrete beams having different reinforcement pattern	PI: Dr. H. M. A. Mahzuz, Associate Professor, Dept. of CEE & CI: Professor Dr. Mushtaq Ahmed, Dept. of CEE, SUST
12.	AS/2019/1/08	CEE	A study of tracking out the metabolic activity of different microbe-nutrient mixtures in generating electricity from mud soil based microbial fuel cell (MFC)	Dr. Mohammad Shahidur Rahman, Associate Professor, Dept of CEE & Mr. Rifath Sharmin, Associate Professor, Dept of CEE, SUST
13.	AS/2019/1/09	CEE	Properties of concrete prepared with glass waste as fine aggregate and tin(Sn)-can as fiber reinforcement	Sourav Ray, Assistant Professor, Dept of CEE & Mohaminul Haque, Assistant Professor. Dept of CEE, SUST
14.	AS/2019/1/10	CEE	Assessment of aquifer vulnerability of coastal area	Mr. Md. Aminul Islam, Assistant Professor, Dept of CEE & Professor Dr. Md. Jahir Bin Alam, Dept of CEE, SUST
15.	AS/2019/1/11	CEE	Anaerobic co-digestion of tannery solid waste with sludge: the effect of inoculum to substrate ratio and solids content	Mr. Shilpy Rani Basak, Assistant Professor, Dept of CEE & Dr. Mr. Md. Imran Kabir, Associate Professor, Dept of CEE, SUST

Technical Session–IX: For Dept. of SOC& SCW
Date: May 31, 2021 || Time: 1:00 PM – 3.30 PM

Chair: Prof. Dr. Md Abdul Ghoni Host: Prof. Dr. Tulshi Kumar Das
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	SS/2018/2/38	SOC	Buerger's Disease in Bangladesh Under Scrutiny: Expoloring Socioeconomic and Cultural Factors	Professor Dr. Mohammad Faruque Uddin, Dept of Sociology, SUST
2.	SS/2018/2/39	SOC	Voices of the Poor: Demystifying the Nexus between Rights and Agency of Tea Workers in Bangladesh	Professor Dr. Md. Al-Amin, Dept. of SOC & CI: Professor Dr. Nazrul Islam, Dept of PSS, SUST
3.	SS/2019/1/35	SOC	Determinants of Drop Courses at Undergraduate Level Students in Bangladesh: A Study on Shahjalal University of Science and Technology, Sylhet	Mr. Mohammad Maniruzzaman Khan, Lecturer, Dept of SOC & CI: Professor Dr. Md. Kabir Hossain, Dept of STA, SUST
4.	SS/2019/1/37	SOC	Power and Participation in Fishers' Resilience: Comanagement of Small Scale Fisheries in Bangladesh	Professor Mohammad Anwar Hossain, Dept of SOC, SUST
5.	SS/2018/2/35	SCW	Women's Access to safe Abortion and Sextual and Reproductive Health in Three Selected Areas of Sylhet Division: A Study	Professor Dr. Faisal Ahmmed, Dept of SCW & Dr. Mohammad Ali Oakkas, Assistant Professor, Dept of SCW, SUST
6.	SS/2018/2/36	SCW	Causes and Consequences of Dowry Practice and Legal Measures: A Study in Sylhet Division	Professor Dr. Neaz Ahmed, Dept. of SCW & CI: Abul Kashem, Assistant Professor, Dept of SCW, SUST
7.	SS/2018/2/37	SCW	GO and NGO Partnership for Protection of Women in Haor Regions of Bangladesh: A Study	Professor A. K. M Mahbubuzzaman, Dept of SCW, SUST
8.	SS/2019/1/30	SCW	Capability development through education: A study in ethnic communities of Sylhet region	Md. Fakhurul Islam, Associate Professor, Dept of SCW & Md. Al Amin Rabbi, Associate Professor, Dept of SOC, SUST
9.	SS/2019/1/31	SCW	Prospects and Challenges of Community Clinics in Bangladesh: A Study	Krittebas Paul, Assistant Professor, Dept of SCW & Professor Dr. Tulshi Kumar Das, Dept of SCW, SUST
10.	SS/2019/1/32	SCW	Social work Practices in Bangladesh: Challenges and Opportunities	Md. Abdul Jalil, Associate Professor, Dept of SCW & Prof. Muhammad Muazzam Hussain, Dept of SCW, SUST
11.	SS/2019/1/33	SCW	Prospects and Challenges of School Social Work Practice in Haor Areas of Bangladesh: A Study	Professor Syeda Sultana Parveen, Dept of SCW & CI: Professor Md. Ismail Hossain, Dept of SCW, SUST
12.	SS/2019/1/34	SCW	Socioeconomic Effects of Shrimp Farming with Water Salinity; A Study on Coast Dwellers on Bangladesh	Professor Md. Mizanur Rahman, Dept of SCW, SUST

Technical Session–X: For Dept. of FES

Date: May 31, 2021 || Time: 1:00 PM – 3.30 PM

Chair: Prof. Dr. Md Qumruzzaman Chowdhury. Host Prof. Dr. A. Z. M Monzoor Rashid
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	FES/2018/2/03	FES	Integrating Ecological Models and Conservation Planning Frameworks for Sustainable Protected Area Management in the North-Eastern Bangladesh	Dr. Swapan Kuamar Sarker, Associate Professor, Dept of FES & Mohammad Golam Kibria, Assistant Professor, Dept. of FES, SUST
2.	FES/2018/2/04	FES	Isolation, Characterization and Culture of Plant Growth Promoting Rhizobacteria (PGPR) to Produce Bio-fertilizer and Bioassay its Effect on Plant Growth	Professor Dr. Romel Ahmed, Dept of FES, SUST
3.	FES/2018/2/05	FES	Identification and characterization of Phytophthora species associated with the diseases of tree species in semi-evergreen forests of Sylhet district	Dr. Mohammed Masum UI Haque, Lecturer, Dept of FES & Abdur Rakib Bhuiyan, Lecturer, Dept of FES, SUST
4.	FES/2018/2/06	FES	Assessing the Effects of Invasive Alien Species on Native Biodiversity and Rural Livelihoods- A Case Study from Protected Areas of Bangladesh	Professor Dr. Mohammad Belal Uddin, Dept of FES, SUST
5.	FES/2018/2/07	FES	Comparative study of land use change biodiversity among two different types of forest protected areas of Bangladesh as an effect from co-management	Dr. Kazi Mohammad Masum, Associate Professor, Dept. of FES & Nustat Islam, Assistant Professor, Dept. of FES, SUST
6.	FES/2019/1/02	FES	Effect of salinity on growth, physiological response and nutrient content in plant tissues of five economically important trees in Bangladesh	Mr. Md. Saifuzzaman Bhuiyan, Lecturer, Dept of FES & Professor Dr. Romel Ahemd, Dept of FES, SUST
7.	FES/2019/1/03	FES	Diversity, distribution and conservation threats of small non-volant mammals of Lawachara National Park of Bangladesh	Mr. Abdur Rakib Bhuiyan, Lecturer, Dept of FES & Anup Datta, Lecturer, Dept of FES, SUST
8.	FES/2019/1/04	FES	Biodiversity and conservation status of fish and other aquatic animals of ecologically sensitive natural wetlands of north eastern Bangladesh: A model study to identify the relation of livelihood and natural resource management in relation to climate change	Mr. Nusrat Islam, Assistant Professor, Dept of FES & Dr. Kazi Mohammad Masum, Associate Professor, Dept of FES, SUST
9.	FES/2019/1/05	FES	Chemical and microbial toxicity among geophagia and Its possible risk factors to human health-A case study on Sylhet, Bangladesh	Dr. Farzana Raihan, Associate Professor, Dept of FES & Professor Dr. Mohammad Abdul Munim Joarder, Dept of ECO, SUST
10.	FES/2019/1/06	FES	Analysis of forest fragmentation and its impact on species diversity using remote sensing and GIS techniques	Mohammad Redowan, Associate Professor, Dept of FES & Professor Mohammad Jahirul Haque, Dept of PSS, SUST
11.	FES/2019/1/07	FES	Plant functional composition along the environmental gradients in the North-Eastern forest of Bangladesh	Dr. Mizanur Rahman, Associate Professor, Dept of FES & Dr. Mahmuda Islam, Associate Professor, Dept of FES, SUST

Technical Session–XI : For Dept. of IPE, MEE & PME
Date: May 31, 2021 || Time: 1:00 PM – 3.30 PM

Chair: Prof. Dr Mohammad Muhshin Aziz Khan. Host: Prof. Dr. Tamez Uddin
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	AS/2018/2/30	IPE	Design and feasibility study of a photovoltaic (PV) power generation system for a proposed Academic Building of SUST based on experimental Investigations	Professor Dr. Muhammad Mahamood Hasan, Dept. of IPE & Professor A. B. M Abdul Malek, Dept. of IPE, SUST
2.	AS/2018/2/31	IPE	The Bio Heat Transfer to and through Human Skin During Burns and Their Treatments: An Investigation Using Finite Element Method	Professor Dr. Mukid Mohammad Mukaddes, Dept of IPE, SUST
3.	AS/2018/2/39 (AS/2018/3/37)	IPE	Design and Development of a Security System for Household Gas Stove Its Performance Improvement	Professor Dr. Md. Abu Hayat Mithu, Dept of IPE & Mohammad Abdul Karim, Assistant Professor, Dept of IPE, SUST
4.	AS/2019/1/39	IPE	The Influence of Green Innovation on Sustainability Performance: a RMG Industry context	Syed Misbah Uddin, Associate Professor, Dept. of IPE & Chowdhury Md. Luthfur Rahman, Associate Professor, Dept. of IPE, SUST
5.	AS/2019/1/41	IPE	Service Time Reduction of a Health Care Facility through the Application of Lean Tools	Dr. Choudhury Abul Anam Rashed, Associate Professor, Dept of IPE & Dr. Mst. Nasima Begum, Associate Professor, Dept of IPE, SUST
6.	AS/2019/1/43	IPE	Modeling of the impacts of oil spill on the biotic environment in the riverine systems of Bangladesh	Mr. Jahid Hasan, Assistant Professor, Dept of IPE & Mr. Md. Mehedi Hasan Kibria, Lecturer, Dept of IPE, SUST
7.	AS/2019/1/44	IPE	"To study the existing e-waste management in Sylhet City & Chittagong City and to develop a supply chain model to manage e-waste in future"	Professor Dr. Mohammad Iqbal, Dept of IPE, SUST
8.	AS/2019/1/45	MEE	Numerical simulation of temperature feedback on phytoplankton diversity: How does it work for generalist and specialist species?	Md. Shafiqul Islam, Lecturer, Dept of MEE & Dr. Subrata Sarker, Assistant Professor, Dept of OCG, SUST
9.	AS/2018/2/33	PME	The State of Gas seeping and Environment around the gas Blow out area of Sylhet Gas Field, Haripur, Sylhet: A view for Protecting the Future Environment	Dr. M Farhad Howladar, Associate Professor, Dept. of PME & A T M Shohidul Hoque Mazumder, SUST
10.	AS/2019/1/47	PME	Effective integration of core data and log data for core scale reservoir characterization on accurate production forecasting	Mr.Labiba Nusrat Jahan, Assistant Professor, Dept of PME & Mahmudul Hasan, Lecturer, Dept of PME, SUST
11.	AS/2019/1/48	PME	Compressed Natural Gas (CNG) Driven Vehicles Safety and Risk Management in Sylhet City	Mr. Md. Abdullah Al Numanbakth, Lecturer, Dept of PME, SUST
12.	AS/2019/1/49	PME	Understanding the Drinking water Quality For Public Health Safety in Barishal City Corporation, Bangladesh under Water Quality Indexing and Statistical Methods	Professor Dr. M. Farhad Howladar, Dept of PME, SUST
13.	AS/2019/1/51	PME	Effect of Biomass Waste on the conversion of Mixed Plastic Wastes into Liquid Fuel	Professor Dr.Md. Saiful Alam, Dept of PME & Majedul Islam Khan, Lecturer, Dept of PME, SUST

Technical Session – XII: For Dept. of BMB & FET

Date: May 31, 2021 || Time: 3.30 PM – 7:00 PM

Chair: Dr. Md. Mozammel Hoque. Host: Prof. Dr S. M. Saiful Islam

Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	LS/2018/2/05	BMB	Determination of folate in serum as an early risk factor for screening of Down syndrome in pregnant woman in Bangladesh	Dr. Shaikh Mirja Nurunnabi, Assistant Professor, Dept. of BMB & Mr Mohammad Shahedul Hossain, Assistant Professor, Dept of PME, SUST
2.	LS/2018/2/06	BMB	JunB protein as a candidate biomaker in cancer diagnosis and its therapeutic implication	Dr. Zafrul Hasan, Assistant Professor, Dept of BMB & Md. Waseque Mia, Lecturer, BMB, SUST
3.	LS/2018/2/07	BMB	Association of circulating biomarkers with type-2 diabetes and cardiovascular diseases: A population-based study in Bangladesh	Dr. Nurshad Ali, Assistant Professor. Dept of BMB & Khandakar Atkia Fariha, Assistant Professor, Dept. of BMB, SUST
4.	LS/2019/1/03	BMB	Determination of aflatoxin M1 levels in milk and dairy products in Bangladesh	Mr. Farjana Islam, Lecturer, Dept of BMB & Nayan Chandra Mohanto, Lecturer, Dept of BMB, SUST
5.	LS/2019/1/05	BMB	Association between serum xanthine oxidase activity and incidence of type 2 diabetes: A case-sectional study in Bangladeshi adults	Mr. Khondaker Atkia Fariha, Assistant Professor, Dept of BMB & Dr. Md. Nurshad Ali, Assistant Professor, Dept of BMB, SUST
6.	AS/2018/2/27	FET	Production of High Quality Tomato Powder Using Foam-Mat Drying Technique to Reduce Post-Harvest Loss	Dr. Wahiduzzaman, Associate Professor, Dept of FET & CI: Mohammad Afzal Hossain, Assistant Professor, Dept of FET, SUST
7.	AS/2019/1/28	FET	Impact of Blanching Pretreatment on Drying Kinetics, Color and Physicochemical Properties of Cabbage (<i>Brassica Oleracea</i>)	Dr. Animesh Sarkar, Associate Professor, Dept of Food Engineering & Tea Technology & Mukta Roy, Assistant Professor Dept of Food Engineering & Tea Technology, SUST
8.	AS/2019/1/30	FET	Effect of physical and chemical pretreatment on drying kinetics, physicochemical properties and storage stability of naga chili (<i>Capsicum chinense</i>)	Dr. Rowshon Ara, Associate Professor, Dept of FET & CI: Md. Rahmatuzzaman Rana, Assistant Professor, Dept of FET, SUST
9.	AS/2019/1/31	FET	Microwave drying kinetics evaluation with and without osmotic pre-treated pineapple	Mr. Shafaet Ahmed, Lecturer, Dept of FET & Mr. Md. Sifat Tanveer, Lecturer, Dept of PME, SUST
10.	AS/2019/1/34	FET	Effectiveness of BT Tea in a Randomized Human Cohort Relevance to Diabetes and Its Complications	Dr. Razia Sultana Chowdhury, Associate Professor, Dept of FET & A. S. M. Sayem, Lecturer, Dept of FET, SUST
11.	AS/2019/1/35	FET	Optimization of Drying Temperature Combined with Pre-treatment to Improve Physico-chemical and Nutritional Quality of Pineapple	Mohammad Afzal Hossain, Assistant Professor, Dept of FET & Dr. Wahiduzzaman, Associate Professor, Dept of FET, SUST
12.	AS/2019/1/36	FET	Bioaccumulation and Health Risk Assessment of Heavy Metals in Fish Feed and Its Deposition in Corresponding Foods at Selected Regions in Bangladesh	Mr. Mizanur Rahman, Assistant Professor, Dept of FET & Dr. Fazle Elahi Mohammad Faisal, Associate Professor, Dept of BUS, SUST

Technical Session – XIII: Dept. of ECO & BUS
Date: May 31, 2021 || Time: 3.30 PM – 7:00 PM

Chair: Prof. Sayed Hasanuzzaman Host: Prof. Dr. Md. Monirul Islam
Each Presentation Time: 07.00 min

Sl.No.	Project ID	Dept.	Project Title	Researchers Name
1.	SS/2018/2/27	ECO	Theoretical and Empirical Perspective of Price Differential between Trafficked and Legal International Migration	Professor Dr. Mohammad Abdul Munim Joarder, Dept of ECO & Nazmunnessa Bakth, Associate Professor, Dept of ECO, SUST
2.	SS/2019/1/12	ECO	An empirical investigation of employment creation, entrepreneurial motivation and supporting factors on micro, meso, and macro level entrepreneurship	Professor Dr. Mohammad Rafiqul Islam, Dept of ECO & Dr. Munshi Naser Ibne Afzal, Assistant Professor, Dept. of ECO, SUST
3.	SS/2019/1/14	ECO	Factors Affecting the Adaptation Strategies and Subjective well-being of Return Trafficked Female Migrants in Bangladesh	Nazmunnessa Bakth, Associate Professor, Dept of ECO & Professor Mohammad Abdul Munim Joarder, Dept of ECO, SUST
4.	SS/2019/1/07	BUS	An Investigation into Attitudes Towards Small Enterprises (SME) Financing of Technopreneurs in Bangladesh	Dr. Mohammad Mizanur Rahman, Associate Professor, Dept of BUS & Dr. Mohammad Shahidul Hoque, Associate Professor, Dept of BUS, SUST
5.	SS/2019/1/09	BUS	Emergence of E-tailing and its impact on Traditional Retailing in Bangladesh: An Empirical Investigation	Mr. Sakufa Chowdhury, Assistant Professor, Dept of BUS & Sayma Sadia Shawon, Lecturer, Dept of BUS, SUST
6.	SS/2019/1/10	BUS	Nexus among Bank Competition, Efficiency, and Financial Stability: A Comprehensive Study in Bangladesh	Dr. Syed Mohammad Khaled Rahman, Associate Professor, Dept of BUS & Mohammad Ashraful Ferdous Chowdhury, Assistant Professor, Dept of BUS, SUST
7.	SS/2019/1/11	BUS	Empowerment of Tribal Women through Entrepreneurship for Sustainable Development of Bangladesh: A Empirical Study	Mr. Sobhana Tanzima Atiq, Assistant Professor, Dept of BUS & Syed Towfiq Mahmood Hasan, Associate Professor, Dept of BUS, SUST