

# Seminar on Project Progress: 2021-2022

## 14<sup>th</sup> March, 2022 (Monday)

<b>9.30 AM -10.00 AM</b> <b>Inaugural Ceremony</b> <b>Venue:</b> <b>CSE Conference Room</b>	09:30 AM : Chair, guests, and participants take their seats
	09:35 AM : Speech of Registrar (In-Charge), RUET
	09:40 AM : Speech of Dean, Faculty of ASH, RUET
	09:44 AM : Speech of Dean, Faculty of ME, RUET
	09:47AM : Speech of Dean, Faculty of CE, RUET
	10:50 AM : Speech of Dean, Faculty of ECE, RUET
	09:53 AM : Speech of Chief Guest
09:58 AM : Speech by the Director, Research & Extension, RUET	

## Refreshment and Tea Break (10:00 AM-10:20 AM)

<b>Progress Session-I</b>	<b>Time: 10:20 AM – 11:40 AM</b>
<b>Venue: Virtual Conference Room, 2<sup>nd</sup> Floor, Academic Building-1, RUET</b>	
<b>Session Chair: Prof. Dr. Md. Niamul Bari, Dean, Faculty of CE, RUET</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০১	Assessment and Improvement of the properties of Recycled Local Aggregate to produce Green Concrete <i>Prof. Dr. NHM Kamruzzaman Sarkar, Dept. of CE, RUET.</i>
<b>Time: 10:20 AM-10:30 AM</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০২	Experimental and Numerical Investigation on CFRP Strengthen-Retrofitted of Reinforced Concrete and Steel Structures <i>Prof. Dr. S.M. Zahurul Islam, Dept. of CE, RUET.</i>
<b>Time: 10:30 AM-10:40 AM</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০৩	Alternatives of conventional bricks in construction work to mitigate air pollution from the brick fields <i>Prof. Dr. Md. Robiul Awall, Dept. of CE, RUET.</i>
<b>Time: 10:40 AM-10:50 AM</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০৮	A Sustainable Solution of Growing Plastic Waste Problem in Bangladesh: Addition of Waste Plastic in the Fly-Ash Bricks (Composite Bricks) <i>Showaib Ahmed Chowdhury, Lecturer, Dept of BECM, RUET.</i>
<b>Time: 10:50 AM-11:00 AM</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০৯	Compatibility of Cement stabilized rammed earth as a sustainable material for construction <i>Aojoy kumar Shuvo, Lecturer, Dept of BECM, RUET.</i>
<b>Time: 11:00 AM-11:10 AM</b>	

## Refreshment and Tea Break (11:10 AM-11:20 PM)

<b>Progress Session-II</b>	<b>Time: 11:20 AM – 11:40 AM</b>
<b>Venue: Virtual Conference Room, 2<sup>nd</sup> Floor, Academic Building-1, RUET</b>	
<b>Session Chair: Prof. Dr. Md. Kamruzzaman, Head, Faculty of URP, RUET</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০৪	Assessment of food security in the drought prone areas of Barind tracts, Rajshahi <i>Nazia Hossain, Assistant Professor, Dept of URP, RUET.</i>
<b>Time: 11:20 AM-11:30 AM</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০৫	Impact of Greenery and Water body on the Cooling of City's Environment: A Case of Rajshahi City

<b>Time: 11:30 AM-11:40 AM</b>	<i>Dr. MST Ilme Faridatul</i> , Assoc. Professor, Dept. of URP, RUET.
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০৬	Public Perceptions on Urban Open Space and City Livability in Barishal, Bangladesh
<b>Time: 11:40 AM-11:50 PM</b>	<i>Muhaimunul Islam</i> , Lecturer, Dept. of URP, RUET
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/০৭	Exploring The Reasons of Water logging Problem In Rajshai City Corporation Area and Develop Community Based Proposals To Mitigate Water logging Problem Through Participatory Approach
<b>Time: 12:00 PM-12:10 AM</b>	<i>Dulal Sarker</i> , Lecturer, Dept. of URP, RUET.
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১০	Building Energy Consumption Reduction by Integrating Phase Change Materials (PCM) with Construction Materials
<b>Time: 12:10 PM-12:20 PM</b>	<i>Rakibul Hasan</i> , Lecturer, Dept of BECM, RUET.
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১১	Transformation of rural homestead in the urban fringe areas: A case of Kakon hut, Rajshahi
<b>Time: 12:20 PM-12:30 PM</b>	<i>Md. Nazmul Hoda</i> , Lecturer, Dept of ARCH, RUET.

### Refreshment and Prayer Break (12:30 AM-14:00 PM)

<b>Progress Session-III</b>		<b>Time: 14:00 PM – 15:30 PM</b>
Venue: Virtual Conference Room, 2 <sup>nd</sup> Floor, Academic Building-1, RUET		
<b>Session Chair: Prof. Dr. Md. Nazrul Islam Mondal , Dean, Faculty of ECE, RUET</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১২	Deposition and Characterization of ZnO Thin Films using Automatic Sol-gel Method	<i>Prof Dr. Md. Faruk Hossain</i> , Dept. of EEE, RUET
<b>Time: 14:00 PM-14:10 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১৩	New PV-Grid Interactive Induction Motor Drive with Improve Power Quality for Water Pumping System	<i>Prof Dr. Md. Shamim Anower</i> , Dept. of EEE, RUET
<b>Time: 14:10 PM-14:20 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১৪	Adaptive Control of Islanded Microgrid System using Population Extremal Optimization Based PID Neural Ntwork	<i>Md. Mahmudul Hasan</i> , Lecturer, Dept. of EEE, RUET
<b>Time: 14:20 PM-14:30 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১৫	Cardio-respiratory Biomarkers for Monitoring Sleep Stages Using Wearable Sensors	<i>Dr. Mohammad Abdul Motin</i> , Assist. Prof., Dept. of EEE, RUET
<b>Time: 14:30 PM-14:40 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১৬	Investigation, characterization and enhancing the competence of optical fiber based sensors	<i>Prof Dr. Tanvir Ahmed</i> , Dept. of EEE, RUET
<b>Time: 14:40 PM-14:50 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১৭	Novel Design of Hollow Core Fibers for Terahertz Application	<i>Prof Dr. Abdul Khaleque</i> , Dept. of EEE, RUET
<b>Time: 14:50 PM-15:00 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/১৮	A Novel Approach for Time Complexity Reduction by Using Motion Discontinuity Detection in Versatile Video Coding (VVC/H.266)	<i>Md. Zahirul Islam</i> , Lecturer, Dept. of CSE, RUET
<b>Time: 15:10 PM-15:20 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২০	A multifunction “Surveillance & Rescue Drone” with internet of things (IOT)	<i>Tasnim Binte Shawkat</i> , Assistant Professor, Dept. of ECE, RUET
<b>Time: 15:20 PM-15:30 PM</b>		

### Refreshment and Tea Break (15:30 AM-15:40 PM)

<b>Progress Session-IV</b>		<b>Time: 15:40 PM – 16:50 PM</b>
Venue: <b>Virtual Conference Room, 2<sup>nd</sup> Floor, Academic Building-1, RUET</b>		
<b>Session Chair: Prof. Dr. Md. Zahurul Islam Sarkar, Dept. of EEE, RUET</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২১	Detection of COVID19 from CT Scan Images Using Deep Convolutional Neural Network	
<b>Time: 15:40 PM-15:50 PM</b>	<i>Md. Nahiduzzaman, Lecturer, Dept. of ECE, RUET</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩৬	Bengali Voice Command Recognition Model Training and Implementation	
<b>Time: 15:50 PM-16:00 PM</b>	<i>Md. Rakib Hossain, Assistant Professor, Dept. of ETE, RUET</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩৭	Data Collection, Data set creation and curation for Bengali Voice Command Recognition	
<b>Time: 16:00 PM-16:10 PM</b>	<i>Farzana Akter, Assistant Professor, Dept. of ETE, RUET</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩৮	Analyzing Past 50 Years Meteorological Data for Harvest Cycle Prediction for Rural Farmers Using Machine Learning	
<b>Time: 16:10 PM-16:20 PM</b>	<i>Prof. Dr. Md. Al Mamun, Dept. of CSE, RUET</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩৯	Diagnosis of COVID-19 Cases Using Deep Network from Chest Images	
<b>Time: 16:20 PM-16:30 PM</b>	<i>Md. Farukuzzaman Faruk, Lecturer, Dept. of ME, RUET</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৪০	Face Recognition Based Security System using FaceNet and Multitask Casacadeed Convolution Network.	
<b>Time: 16:30 PM-16:40 PM</b>	<i>Md. Abu Sayed, Assistant Professor, CSE, RUET</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৪১	COVID-19 Detection through Deep Transfer Learning using Chest-Xray Images	
<b>Time: 16:40 PM-16:50 PM</b>	<i>S.M. Mahedy Hasan, Assistant Professor, CSE, RUET</i>	

**Refreshment and Prayer Break (16:50 PM-17:00 PM)**

<b>Progress Session-V</b>		<b>Time: 17:00 PM – 18:20 PM</b>
Venue: <b>Virtual Conference Room, 2<sup>nd</sup> Floor, Academic Building-1, RUET</b>		
<b>Session Chair: Prof. Dr. Md. Rokunuzzaman, Dept. of ME, RUET</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২২	Synthesis and Ferroelastic Mechanical Characterization of Single layer (LSC-GDC) and bilayer (LSCF-GDC/LSCF) with varying thickness	
<b>Time: 17:00 PM-17:10 PM</b>	<i>Prof Dr. Md. Nurul Islam, Dept. of ME, RUET.</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২৩	Floating Solar chimney technology for fish farming	
<b>Time: 17:10 PM-17:20 PM</b>	<i>Md. Hafiz Ahamed, Lecturer, Dept. of MTE, RUET</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২৪	Development of a Novel Transmission System for Electric Vehicle	
<b>Time: 17:20 PM-17:30 PM</b>	<i>Prof Dr. Shahajada Mahmudul Hasan, Dept. of ME, RUET</i>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২৫	Energy Consumption Behavior Analysis and Improvement of Energy Efficiency of Submersible Pump Using in Briand Tract of Bangladesh	
<b>Time: 17:30 PM-17:40 PM</b>	<i>Md. Sanowar Hossain, Lecturer, Dept. of ME, RUET</i>	

ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২৬	Characterization of Intermediate Temperature Solid Oxide Fuel Cell Electrolyte Prepared with Different Porosity <i>Abdul Mojid Parvej, Lecturer, Dept. of ME, RUET</i>
<b>Time: 17:40 PM-17:50 PM</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২৭	Investigation of Physical, Mechanical and Microstructural Characterization of Zirconia Toughened Alumina with Various Ceramic Oxide Additives <i>Md. Bakhtier khalzi, Lecturer, Dept. of ME, RUET</i>
<b>Time: 17:50 PM-18:00 PM</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২৮	Improvement of the productivity of a double slope solar still: Combined influence of fin, phase change material wick material, external condenser, and internal reflector <i>Pronob Das, Lecturer, Dept. of ME, RUET</i>
<b>Time: 18:00 PM-18:10 PM</b>	
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/২৯	Designing and Making a Set-up for Temperature Dependent Electrical Properties Testing of Thin Films and Study of Gallium (Ga) doped Zinc Oxide (ZnO) Thin Films <i>Md. Humayan Kabir, Assistant Professor, Dept. of GCE, RUET</i>
<b>Time: 18:10 PM-18:20 PM</b>	

### Refreshment and Prayer Break (18:20 PM-18:30 PM)

<b>Progress Session-VI</b>		<b>Time: 18:30 PM – 19:30 PM</b>
Venue: Virtual Conference Room, 2 <sup>nd</sup> Floor, Academic Building-1, RUET		
Session Chair: Prof. Dr. Md. Abbas Ali, Head, Dept. of Chemistry, RUET		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩০	Studies on phytochemical profile, antioxidant of Koromcha leaves ( <i>Carissa carandas</i> L.) and their effect on diabetes and cardiovascular disease (CVD) markers in experimental rats. <i>Prof Dr. Md. Ashraful Alam, Dept. of CHEM, RUET</i>	
<b>Time: 18:30 PM – 18:40 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩১	Inhibition of top-of-the-line corrosion using volatile corrosion inhibitors <i>Prof Dr. Md. Mayeedul Islam, Dept. of CHEM, RUET</i>	
<b>Time: 18:40 PM – 18:50 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩২	Evaluation of Quality and Oxidative Stability of Chia Seed Oil in Presence of Antioxidant Rich Fraction from Rice Bran <i>Aktarun Nahar, Lecturer, Dept. of CHEM, RUET</i>	
<b>Time: 18:50 PM – 19:00 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩৩	Combination of modified Lindstedt-Poincare and homotopy perturbation methods <i>Prof Dr. Md. Helal Uddin Molla, Dept. of MATH, RUET</i>	
<b>Time: 19:00 PM – 19:10 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩৪	Modified harmonic balance method for solving nonlinear vibration problems of beam/plate <i>Prof Dr. Md saifur Rahman, Dept. of MATH, RUET</i>	
<b>Time: 19:10 PM – 19:20 PM</b>		
ডিআরই/৭/রয়েট/৫২৮(৩৫)/প্র/২০২১-২২/৩৫	Assessment of natural radioactivity in sediment of the Padma river near Ruppur nuclear power plant, Pabna, Bangladesh using gamma-ray spectrometry <i>Md. Rahat Ali, Lecturer, Dept. of PHYS, RUET</i>	
<b>Time: 19:20 PM – 19:30 PM</b>		

### Refreshment and Dinner (20:00 PM-21:30 PM)