







NAAC Accredited Institution Recognized under 2(f) & 12(B) act of UGC Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

#### Punalkulam, Near Thanjavur - 613 303 KINGS



Organized by **Kings - Research & Development Section** 05th June, 2020

#### CALL FOR PROJECTS



#### web:www.kingsindia.net

#### CIVIL

Fiber Reinforced Concrete Load Deformation Behaviour Flood Forecasting GIS & Remote Sensing Applns. Ozonation for Colour Removal Riverbank Filtration Earthquake Geotechnical Engg. **Ground Improvement** Safety, Accident Analysis Intelligent Transport Systems

#### CSE / IT

Natural Computation Computational Game Theory Continuous & Real-timeComputation Distributed Algorithms Design & Analysis of Algorithm Inspiration of Biological Computing Nature Inspired Computing Model Theory for Computation Information & Commn. Complexity Graph Algorithms

#### ECE

**Modeling and Simulation** Antennas & Microwave Engg. ASICs / SOC / NOC **Biomedical Engineering** Embedded System / VLSI Design Image / Signal Processing MEMS and Piezo System Integration Optimization Techniques Terrestrial & Space Optical Networks Wireless /FSO

Renewable Energy - Green Energy Bio-medical Instrumentation Power Electronics Power Systems Modern Power Systems Smart Grids VLSI in Power Electronics/Systems Embedded Systems **Electrical Machines and Drives** Control Systems & Instrum.

#### MECH

Renewable Energy Technology Production & Energy Management Robotics & Industrial Automation CAD/CAM Materials Manufacturing Safety Engineering Nano Composites & Characterization Design & Analysis MEMS

Submission of Abstract Acceptance Notification Last Date for Registration

: 02.06.2020 Registration (External) : Rs. 100/team : 03.06.2020 Internal (KCE)

: 04.06.2020

: No Fees

Dr. D. Sivakumar/CSE : 98420 40796 Dr. M. Meenalochani/EEE : 96298 91123 Mr. J. Rajaparthiban/MECH: 98940 31614 Mr. T. Pasupathi/ECE : 98941 04645 Mrs.T. Bhuvaneshwari/Civil : 99949 61305



Dr. R. Rajendran Mr.T.R.S.Muthukumaar Dr. J. Arputha Vijaya Selvi

Chief Executive Officer

Dr. S. Sivakumar

#### Organizing Chair

R&D Convenor

#### Dr. P.P. Shantharaman Dr. M. Meenalochani

Mr. T. Pasupathi

#### Organizing Committee Dr. D. Sivakumar, Asst. Prof./C

Mr. J. Rajaparthiban, Asst. Prof./MECF Dr. S. Udhayakumar, Asst. Prof./S&H







### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### **KINGS SCIENCE EXPO - 2020**

#### Report

Kings Science Expo-2020, an onlineProject Expositionis planned on 05.06.2020with an exceptional idea to showcase the research talents, innovativeness, and creativity of all final year Engineering students. The main aim for conducting such a program is to enhance the knowledge of students and motivate them to compete in the global competitive engineering field. The Expo acted as a forum to bring together students of various Engineering colleges to discuss innovative ideas and diversetopics on next generation technologies. Studentsare encouraged todevelop prototype projects on recent societal issues with better efficiency and low-cost.

#### Objectives of the Expo:

- To provide a forum for sharing new design and alternative technologies.
- To promote affable interactive environment leading toexchange of new research ideas.

#### **Topics of interest:**

- (i) Embedded Systems
- (ii) Wireless Communication systems
- (iii) Bio-medical Instrumentation
- (iv) Image/Signal Processing
- (v) Robotics
- (vi) Artificial Intelligence
- (vii) Control Systems and Instrumentation

The Expo for Electronics & Communication Engineering is scheduled at 10.30 A.M through online mode using Google meet platform. Totally 14 batches registered for the Expo out of which two are external and the remaining 12 batches are internal. Each batch is provided 15 minutes for their project demonstration.

The participants are judged based on the following criteria:

- Design (Compactness and the efficiency of work done)/Model of the project
- Innovation/Novelty
- Relevance with practical need
- Presentation skills
- Clarification of queries

#### **Outcomes of the Project Expo**

- Develop professionals having good skills, self-learning ability and confidence to support and contribute to the growth of relevant industries.
- This provides opportunity for the students to demonstrate their learning experience.







# Department of Electronics and Communication Engineering KINGS SCIENCE EXPO – 2020 05<sup>th</sup> June, 2020

#### **Instructions:**

#### **Key Evaluation Criteria would be**

- ✓ Design (Compactness and the efficiency of work done)/Model of the project 20 Marks
- ✓ Innovation/Novelty 20 Marks
- ✓ Relevance with practical need 20 Marks
- ✓ Presentation 20 Marks
- ✓ Queries Clarification 20 Marks

#### **GENERAL RULES:**

- Participants should register their presence (online) before 10.15 a.m. on 05th June 2020.
- Mode of presentation: MS Power Point (Maxi.25 Slides)
- Partial outputs are considered.
- All registered participants will receive participation certificate.
- Best project award will be awarded for the deserved project.
- The decision of the judges shall be treated as final and binding.
- The panel of judges consists of subject experts.
- The organizers reserve the rights to change any or all of the above rules as they deem fit.







# Department of Electronics and Communication Engineering KINGS SCIENCE EXPO – 2020

#### 05<sup>th</sup> June, 2020 SCHEDULE

Batc h ID	Time	Participants	Title of the Projects
1.	10.30 a.m. - 10.45 a.m.	ILANKHATIR.E MOHAMED ASHIF KHAN.S BALAJI.M HARIHARAN.M	Initial Lung Cancer Cell Detection using Machine Learning
2.	10.46 a.m. - 11.00 a.m.	PRIYADHARSHINI K VITHYASRI U K SASIREKHA V SANTHAKUMARI J	A smart care taking system for uncomplainable patients and babe in arms using IoT
3.	11.01 a.m. - 11.15 a.m.	KANCHAN BHOSALE SAURABH BHOLE YASH PARAB VIKRANT RAJSHIRKE	Landslide Monitoring Using Wireless Sensor Networks
4.	11.16 a.m. - 11.30 a.m.	POOJA SHREE G BHUMIKA K M	A Compact Circular Frequency Reconfigurable Microstrip Monopole Antenna with Slotted Ground Plane for L and S Band Application
5.	11.31 a.m. - 11.45 a.m.	P.ABARNA K.DHURKA A.ELAKIYAKOWS HIKA M.SUDHA	Implementation of smart agriculture using IoT
6.	11.46 a.m. - 12.00 noon	AKALYA. K HARINI.M JENIFER. X MEGALA. M	Safezone identification and safety alert system for fishermen
7.	12.01 p.m. - 12.15 p.m.	G. KAYADEVI T. ARCHANA R. ABARNA S. AGALYA	An IoT Based smart perception of health observation
8.	12.16 p.m. - 12.30 p.m.	S.DIVAKAR S.JEEVA M.JAWAHAR T.VASUDEVAN	Raspberry Pi Based Smart Mirror using Voice Control

9.	12.31 p.m. - 12.45 p.m.	M. RASIKA C. RANJITHA D. RANJITHA R. DIVYADHARSHINI	Embedded based Ultra Model, Slime Baby Rescue System with SMD Modules		
10	12.46 p.m.	J INDHUJA M KOWSALYA K MEERA R SOWMIYA	Vision Based on Board Controller for Safe Landing and Target Detection for Unmanned Aerial Vehicles		
LUNCH BREAK					
11	02.00 p.m. - 02.15 p.m.	J.ARIYAVARSHINI S.DHANAHARSHIN I R.SANTHIYA P.PRIYADHARSHI NI	AMBUBOT: Automated External defibrillator Robotic Ambulance.		
12	02.16 p.m. - 02.30 p.m.	BALARAMAN. A. K ANTONY BERNARD. F SEDHUPATHI. M VEERAMANI. M	Intelligent System Based TFACU (Tower Frequency Analysis And Control Unit)		
13	02.31 p.m. - 02.45 p.m.	DHANASEKARAN S YASIKRAHMAN B PUGALENDHI K	Advanced Design of Agricultural Robot using Bluetooth		
14	02.45 p.m. - 03.00 p.m.	T ABINAYAKARTHI KA A POOVIZHI M SRIPRIYA T TAMILAZLAGI	Implementation Plants Disease Detection and Recovering using Image Processing		

HOD/ECE

Principal

J. Poonetai



### KINGS SCIENCE EXPO-2020



This is to certify that

#### P.Abarna

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### Implementation of Smart Agriculture using IoT

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

#### Coordinators

Dr. M. Meenalochani, AP/EEE Mr. T. Pasupathi, AP/ECE

#### Convener

Dr.P.P.Shantharaman Assoc. Prof/Mech

#### Patron

Dr. J. Arputha Vijaya Selvi Principal









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This is to certify that

#### K.Dhurka

of

#### KINGS COLLEGE OF ENGINEERING

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#### Convener

Dr.P.P.Shantharaman Assoc. Prof/Mech

#### Patron

Dr. J. Arputha Vijaya Selvi Principal









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This is to certify that

A.Elakiyakowshika

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

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#### Patron

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This is to certify that

#### M.Sudha

of

#### KINGS COLLEGE OF ENGINEERING

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#### Implementation of Smart Agriculture using IoT

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#### Convener

Dr.P.P.Shantharaman Assoc. Prof/Mech

#### **Patron**

Dr. J. Arputha Vijaya Selvi Principal









# KINGS SCIENCE EXPO-2020



This is to certify that

#### AKALYA. K

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

### Safezone Identification and Safety Alert System for Fishermen

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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#### Patron

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#### HARINI.M

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#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

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#### Patron

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JENIFER. X

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#### Patron

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MEGALA. M

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

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### KINGS SCIENCE EXPO-2020



This is to certify that

G. KAYADEVI

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

### An IoT based Smart Perception of Health Observation

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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#### Patron

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This is to certify that

S. AGALYA

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

### An IoT based Smart Perception of Health Observation

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### KINGS SCIENCE EXPO-2020



This is to certify that

#### **ILANKHATIR.E**

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### INITIAL LUNG CANCER CELL DETECTION USING MACHINE LEARNING

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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#### Convener

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#### Patron

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### KINGS SCIENCE EXPO-2020



This is to certify that

#### MOHAMED ASHIF KHAN.S

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### INITIAL LUNG CANCER CELL DETECTION USING MACHINE LEARNING

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#### Convener

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









### KINGS SCIENCE EXPO-2020



This is to certify that

**BALAJI.M** 

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### INITIAL LUNG CANCER CELL DETECTION USING MACHINE LEARNING

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#### KINGS COLLEGE OF ENGINEERING

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#### Convener

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









### KINGS SCIENCE EXPO-2020



This is to certify that

Priyadharshini K

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

A Smart Care Taking System for Uncomplainable Patients and Babe in Arms using

IoT

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









### KINGS SCIENCE EXPO-2020



This is to certify that

Vithyasri U K

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

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#### Convener

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### KINGS SCIENCE EXPO-2020



This is to certify that

Sasirekha V

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

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#### Convener

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









### KINGS SCIENCE EXPO-2020



This is to certify that

Santhakumari J

of

#### KINGS COLLEGE OF ENGINEERING

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#### Convener

Dr.P.P.Shantharaman Assoc. Prof/Mech

#### Patron

Dr. J. Arputha Vijaya Selvi Principal









### KINGS SCIENCE EXPO-2020



This is to certify that

#### S.divakar

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### RASPBERRY PI BASED SMART MIRROR USING VOICE CONTROL

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









### KINGS SCIENCE EXPO-2020



This is to certify that

S.jeeva

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### RASPBERRY PI BASED SMART MIRROR USING VOICE CONTROL

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### KINGS SCIENCE EXPO-2020



This is to certify that

M.jawahar

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### RASPBERRY PI BASED SMART MIRROR USING VOICE CONTROL

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#### Convener

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









### KINGS SCIENCE EXPO-2020



This is to certify that

T.vasudevan

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### RASPBERRY PI BASED SMART MIRROR USING VOICE CONTROL

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









# KINGS SCIENCE EXPO-2020



This is to certify that

M. Rasika

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

Embedded based Ultra Model, Slimebaby Rescue System with SMD Modules

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

#### Coordinators

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#### Convener

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









# KINGS SCIENCE EXPO-2020



This is to certify that

C. Ranjitha

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

#### Embedded based Ultra Model, Slimebaby Rescue System with SMD Modules

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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# KINGS SCIENCE EXPO-2020



This is to certify that

D. Ranjitha

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

**Embedded based Ultra Model, Slimebaby Rescue System with SMD Modules** 

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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#### Convener

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









### KINGS SCIENCE EXPO-2020



This is to certify that

R. Divyadharshini

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

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#### Convener

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#### Patron

Dr. J. Arputha Vijaya Selvi Principal









# KINGS SCIENCE EXPO-2020



This is to certify that

J Indhuja

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

# VISION BASED ON BOARD CONTROLLER FOR SAFE LANDING AND TARGET DETECTION FOR UNMANNED AERIAL VEHICLES

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

#### Coordinators

Dr. M. Meenalochani, AP/EEE Mr. T. Pasupathi, AP/ECE

#### Convener

Dr.P.P.Shantharaman Assoc. Prof/Mech

#### Patron

Dr. J. Arputha Vijaya Selvi Principal









# KINGS SCIENCE EXPO-2020



This is to certify that

M kowsalya

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

# VISION BASED ON BOARD CONTROLLER FOR SAFE LANDING AND TARGET DETECTION FOR UNMANNED AERIAL VEHICLES

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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## KINGS SCIENCE EXPO-2020



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J.Ariyavarshini

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has demonstrated a project titled

#### **AMBUBOT: Automated External Defibrillator Robotic Ambulance**

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#### KINGS COLLEGE OF ENGINEERING

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#### **AMBUBOT: Automated External Defibrillator Robotic Ambulance**

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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#### KINGS COLLEGE OF ENGINEERING

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P.Priyadharshini

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#### KINGS COLLEGE OF ENGINEERING

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## KINGS SCIENCE EXPO-2020



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BALARAMAN, A. K

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

# INTELLIGENT SYSTEM BASED TFACU (TOWER FREQUENCY ANALYSIS AND CONTROL UNIT)

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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## KINGS SCIENCE EXPO-2020



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ANTONY BERNARD. F

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

# INTELLIGENT SYSTEM BASED TFACU (TOWER FREQUENCY ANALYSIS AND CONTROL UNIT)

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## KINGS SCIENCE EXPO-2020



This is to certify that

SEDHUPATHI. M

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

# INTELLIGENT SYSTEM BASED TFACU (TOWER FREQUENCY ANALYSIS AND CONTROL UNIT)

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**VEERAMANI. M** 

of

#### KINGS COLLEGE OF ENGINEERING

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## KINGS SCIENCE EXPO-2020



This is to certify that

#### **DHANASEKARAN S**

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

### **Advanced Design of Agricultural Robot using Bluetooth**

in the **KINGS SCIENCE EXPO – 2020** (Online mode) jointly organized by IEEE Student Branch STB 16621, MHRD-Institution Innovation Council and Indian Society for Technical Education (TN- 217), Kings College of Engineering, Punalkulam.

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## KINGS SCIENCE EXPO-2020



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#### YASIKRAHMAN B

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### Advanced Design of Agricultural Robot using Bluetooth

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#### **PUGALENDHI K**

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# KINGS SCIENCE EXPO-2020



This is to certify that

T.Abinayakarthika

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has demonstrated a project titled

### Implementation of Plant Disease Detection and Recovery using Image Processing

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# KINGS SCIENCE EXPO-2020



This is to certify that

#### A.Poovizhi

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#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

### Implementation of Plant Disease Detection and Recovery using Image Processing

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# KINGS SCIENCE EXPO-2020



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M.Sripriya

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#### KINGS COLLEGE OF ENGINEERING

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### Implementation of Plant Disease Detection and Recovery using Image Processing

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# KINGS SCIENCE EXPO-2020



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T.Tamilazhagi

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#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

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## KINGS SCIENCE EXPO-2020



This is to certify that

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#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

### Design and Implementation of Modified Automated Teller Machine

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## KINGS SCIENCE EXPO-2020



This is to certify that

### **K.Vidhya**

of

#### KINGS COLLEGE OF ENGINEERING

has demonstrated a project titled

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