

## GYSTB 2021 Judging Schedule – PE02

| Judging Panel | Judging Time      |                    | Team No. | Project Title  |
|---------------|-------------------|--------------------|----------|--|
| PE02          | HKT 08:30 - 08:45 | KST 09:30 - 09:45  | IAPE59   | Securing QR Codes: Implementation of Data Integrity System of QR Codes by Applying Hash                                      |
| PE02          | HKT 08:45 - 09:00 | YAKT 09:45 - 10:00 | IAPE52   | System for Controlling Thermometry and Hand Treatment with the Dispenser Anticovid-19  |
| PE02          | HKT 09:00 - 09:15 | KST 10:00- 10:15   | IBPE04   | Curve Optimization Using Curvature Based Models with Calculus of Variations  |
| PE02          | HKT 09:15 - 09:30 | CST 09:15 - 09:30  | IAPE07   | Prediction Dyslexia with Machine Learning and Using Mobile Based Eye Tracker   |
| PE02          | HKT 09:30 - 09:45 | PHST 09:30 - 09:45 | IAPE62   | Juan Wheel: Automated – Hybrid Powered Wheelchair Made of Bamboo   |
| PE02          | HKT 09:45 - 10:00 | HKT 09:45 - 10:00  | IAPE05   | C.A.R.D. - Augmented Reality Game for Identifying Early-age School Kids with Dyslexia  |
| PE02          | HKT 10:00 - 10:15 | CST 10:00 - 10:15  | IBPE13   | The Application of Phyphox in Vehicle Stability Research of the Public Transportation in Macao                               |
| PE02          | HKT 10:15 - 10:30 | WIB 09:15 - 09:30  | IAPE16   | Analysis of Ionized Supersonic Propulsion Electric Aircraft: A Prospect of the Future of Aviation in Physics and Engineering |
| PE02          | HKT 10:30 - 10:45 | SGT 10:30- 10:45   | IBPE14   | Stool Recognition for Colorectal Cancer Detection through Deep Learning  |
| PE02          | HKT 10:45 - 11:00 | ICT 09:45 - 10:00  | IAPE66   | Fabrication and Characterization of Fe <sub>2</sub> O <sub>3</sub> Nanoparticles for Drug Delivery Application               |
| PE02          | HKT 11:00 - 11:15 | HKT 11:00 - 11:15  | IAPE06   | Super Skin   |
| PE02          | HKT 11:15 - 11:30 | WIB 10:15 - 10:30  | IAPE55   | SOMATA (Pattern detection on guiding blocks for the visually impaired)   |
| PE02          | HKT 11:30 - 11:45 | IST 09:00 - 09:15  | IBPE22   | Earthquake Magnitude and b-value Prediction Model using Extreme Learning Machine   |
| PE02          | HKT 11:45 - 12:00 | WIB 10:45 - 11:00  | IAPE54   | Transporter with Internet of Things (IoT) Based Camera   |
| PE02          | HKT 12:00 - 12:15 | IST 09:30 - 09:45  | IAPE38   | IndivHear: An Inexpensive Smartphone-based Individualized Adaptive Hearing Aid Using Deep Learning                           |

| Judging Panel | Judging Time      |                    | Team No. | Project Title   |
|---------------|-------------------|--------------------|----------|---|
| PE02          | HKT 13:15 - 13:30 | GST 09:15 - 09:30  | IAPE34   | Deaf Sound Tracker – DST  |
| PE02          | HKT 13:30 - 13:45 | TRT 08:30 - 08:45  | IAPE33   | The Effect of Nitinol and Metal Flexibility on Vehicle Reliability                                |
| PE02          | HKT 13:45 - 14:00 | AST 08:45 - 09:00  | IAPE19   | A Novel Design for Wind Turbine to Harvest Air from Four Directions in Urban Spa                  |
| PE02          | HKT 14:00 - 14:15 | AST 09:00 - 09:15  | IAPE20   | Automated Fluid Handling Machine  |
| PE02          | HKT 14:15 - 14:30 | CEST 09:15 - 09:30 | IAPE37   | Life Saver  |
| PE02          | HKT 14:30 - 14:45 | AST 09:30 - 09:45  | IAPE22   | Eye-tracking Powered Wheelchair   |
| PE02          | HKT 14:45 - 15:00 | TRT 09:45 - 10:00  | IAPE45   | Contactless and Non-destructive Detection of Chicken Meat Contamination with Laser Speckle Method |
| PE02          | HKT 15:00 - 15:15 | SAST 09:00 - 9:15  | IAPE39   | Development of a Position and Orientation Sensor for Robotics                                     |
| PE02          | HKT 15:15 - 15:30 | CEST 09:15 - 09:30 | IBPE09   | "Blob birth zone" Position in the Edge Plasma of Tokamak GOLEM                                    |
| PE02          | HKT 15:30 - 15:45 | AST10:30 - 10:45   | IAPE30   | Utilization of Humidity for Cleaning Solar Panels in Qatar  |
| PE02          | HKT 15:45 - 16:00 | SAST 09:45 - 10:00 | IBPE08   | Solar Heater – Sole   |
| PE02          | HKT 16:00 - 16:15 | AST 11:00 - 11:15  | IAPE26   | Carbon and Dust Capture for Qatar Construction Sites  |
| PE02          | HKT 16:15 - 16:30 | SAST 10:15 - 10:30 | IAPE64   | Detection and Classification of Cardiac Arrhythmia Using Machine Learning                         |
| PE02          | HKT 16:30 - 16:45 | EEST 11:30 - 11:45 | IBPE01   | Investigation of Self-oscillations in Hydrodynamic Systems  |
| PE02          | HKT 16:45 - 17:00 | IST 09:45 - 10:00  | IAPE42   | Using Machine Learning to Improve Numerical Weather Prediction                                    |