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121.	WOMEN ORBIT- EASY METHOD FOR UNDERSTANDING MENSTRUAL CYCLE.	123
122.	CANDLE ELECTRICAL POWER GENERATOR SYSTEM (CEPSIS)	124
123.	3D PRINTED LOWER-LIMB SOCKET FOR PROSTHETIC LEG	125
124.	DUAL USAGE TOILET BOWL	126
125.	MCYCLE EBOX	127
126.	RASPBERRY IOT LEARNING KIT WITH ANDROID APP	128
127.	EARLY DROWSINESS DETECTION SYSTEM	129
128.	FISH SCALE REMOVER MACHINE	130
129.	PERPUSTAKAAN SPA RETOSC	131
130.	WATER QUALITY MONITORING SYSTEM	132
131.	MARITEAM (EMPOWERING LOCAL FISHERY WITH THE NEW TECHNOLOGY)	133
132.	COLLEGE ACTIVITY ATTENDANCE REGISTRATION & SCRUTINIZATION SYSTEM USING BARCODE SCANNER (COLLAARS)	134
133.	TOYS SCOOPER	135
134.	SUPERVISION ELECTRICITY ENERGY USING IOT SYSTEM	136
135.	GO N DRINK	137
136.	SMART AUTOMATIC FISH FEEDER 4.0	138
137.	SAFETY EARTH LEAKAGE CIRCUIT BREAKER	139
138.	ECO POT	140
139.	SMART GARDENING SYSTEM	141

INVENTION CATEGORY

140.	EDUCARD (ENGLISH EDUCATION CARD) THE SOLUTION TO LEARN GRAMMAR EASILY	143
141.	BIO-INSPIRED NOVEL HYBRID VERTICAL AXIS WIND TURBINE	144
142.	“COCOGO” THE ANTIDIABETIC CARBONATED COCONUT DRINK INNOVATION ADDED BY THE EXTRACT OF ALBEDO FROM WATERMELON AND PUGUNTANO LEAF AS COMMODITY OF NORTH SUMATERA	145
143.	EGI (ELECTRIC GREEN INNOVATION): DEVELOPMENT TECHNOLOGY DYE-SENSITIZED SOLAR CELL (DSSC) MADE FROM KIAMBANG CHLOROPHYLL AND CYANOBACTERIA IN RANU PANI LAKE CONSERVATION AS ECO-FRIENDLY ELECTRIC ENERGY	146
144.	A TECHNOLOGY-BASED SMART TECH NECKLACE AS A BREAKTHROUGH FOR AN INTEGRATED INCLUSIVE DEAF EDUCATION (OR ENVIRONMENT)	147
145.	SABUN STICK SARA ANN 2.0	148
146.	V-SHOCK PEN	149
147.	SISTEM PENGURUSAN AKTIVITI PELAJAR	150
148.	SMART HYDROT (SMART HYDROPONICS ROTATING TOWER)	151
149.	BAPEL “BAKSO APEL” THE INNOVATION OF BAKSO THAT USES APPLE TO INCREASE THE CONSUMPTION OF APPLE AND BAKSO WHICH CAN DECREASE THE RISK OF CANCER	152
150.	GLORY AQUA	153

INNOVATION

CATEGORY

SAFETY EARTH LEAKAGE CIRCUIT BREAKER

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Malaysia is a country that experiences quite a number of thunderstorms throughout the year. This tends to result in lightning strikes that are capable of causing blackouts. Blackouts in Malaysia tend to happen mostly because of the lightning strikes. So, schools and student hostels would have to always reset the Earth-leakage circuit breaker (ELCB) in order to resume electricity. This would be very irritating if it takes place during the night. Thus, we have decided to create a device that allows us to handle such problems with ease. The device is the ELCB Automatic Reset Module or also known as Safety ELCB. An Earth-leakage circuit breaker (ELCB) is a safety device used in electrical installations with high Earth impedance to prevent shock. It detects small stray voltages on the metal enclosures of electrical equipment, and interrupts the circuit if a dangerous voltage is detected.



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