PRODUCT	NAME OF INNOVATION PRODUCT	MEDAL
IA-16	IMPEDANCE BASED E. COLI SENSOR	GOLD
10.47	SIGN LANGUAGE REAL-TIME COMMUNICATOR FOR	
IA-17	SPEECH IMPAIRMENT PEOPLE	GOLD
14.40	SAFE, INEXPENSIVE AND SUSTAINABLE ENERGY	
IA-18	STORAGE TECHNOLOGY OF SODIUM-ION BATTERIES	GOLD
IA-19	PORTABLE ALL-OPTICAL RADIO FREQUENCY (AORF)	
IA-19	SIGNAL GENERATOR	GOLD
IA-23	DESIGN RASPBERRY PI CONTROLLED	
IA-23	SWITCH MODE FOR BATTERY CHARGER	GOLD
IA-27	IOT BASED SMART WASTE BIN MONITORING SYSTEM	GOLD
IA-28	ENERGY-BASED FEATURE EXTRACTION FOR INCIPIENT	
IA-20	STAGE OF ARCING FAULT IDENTIFICATION	GOLD
IA-31	SMART IOT BASED FLASH FLOOD MONITORING SYSTEM	GOLD
IA-38	SOLAR POWER CCTV CAMERA	GOLD
IA-4	WATER QUALITY MONITORING SYSTEM (WQMS) VIA	
IA-4	MOBILE APPS FOR ORNAMENTAL FISH POND	GOLD
IA-41	COLLABORATIVE AUGMENTED REALITY ASSEMBLY	
1/4-41	TRAINING APPLICATION (CARATA)	GOLD
	TITANIUM DIOXIDE PH SENSOR PREPARED BY	
IA-44	ELECTROHYDRODYNAMIC ELECTROSPRAYING	
	PROCESS	GOLD
IA-56i	HELPING THE BLIND TO GET THROUGH COVID-	
	19:SOCIAL DISTANCING ASSISTANT	GOLD
IA-57i	SOCIAL DISTANCING CROWD MANAGEMENT SYSTEM	GOLD
IA-63i	PORTABLE PROXIMITY DEVICE	GOLD
IA-65i	THIRD EYE FOR THE BLIND	GOLD
IA-66i	SAFETY JACKET FOR KIDS	GOLD
IA-72i	IOT BASED SMART HELMET SYSTEM FOR ACCIDENT	0015
17 (7 2 1	DETECTION	GOLD
IA-74i	AUTOMATED WATER PUMP FOR OVERFLOOD AND	2015
17 (7 -11	OVERFLOW CONTROL	GOLD
IB-14	AUTOMATED MEDICINE DISPENSER MACHINE (AMDM)	GOLD
ID 45	, ,	GOLD
IB-15	INNOVATIVE WIRELESS SAFETY VEST	GOLD
IB-19	OMNI: TOOTHBRUSH DESIGN FOR DOWN SYNDROME	GOLD
IB-24	CHILDREN CDD DOADSCANDODTARLE MOUNTING SYSTEM	GOLD
	GPR ROADSCAN:PORTABLE MOUNTING SYSTEM	GOLD
IB-27	SMART FACE SURVEILLANCE CAMERA (SFSC)	GOLD
ID 04	HULL PEH: A NOVEL COMPRESSIVE AMPLIFIER	
IB-31	STRUCTURE FOR PIEZOELECTRIC ENERGY	GOLD
	HARVESTING	GOLD
IB-32	FORMULATION & OPTIMIZATION OF CORE SANDWICH	GOLD
ID 20	PANEL FOR STRUCTURAL INTEGRITY ENHANCEMENT	GOLD
IB-36	SOLAR PORTABLE ROSTRUM SYSTEM	GOLD
IB-37	SELF TUNING CONTROLLER FOR VIBRATION	GOLD
ID 40	SUPPRESSION OF HORIZONTAL FLEXIBLE PLATE	GOLD
IB-42	DRILL BIT SHARPENING MACHINE FOR EDUCATION	
IB-43	DC SMART ECM	GOLD

IB-8 THREE-DIMENSIONAL PRINTED STINGLESS BEE HIVE BOX IC-10 ENHANCED HOTSPOT MAPS OF TB, MALAYSIA GOLD IC-20 ARCHIMEDEAN NANOMIP SENSOR: A PROGNOSTIC DEVICE FOR CLOTTING DISEASE DETECTION IC-26 GSM PATIENT HEARTBEAT MONITORING SYSTEM IC-4 SPEEDDNA ISOLATION KIIT GOLD IC-6 ICOMPBAG GOLD IC-7 EXTRACT & MINT (COOL-LIT WATERMELON MASSAGE BAR) IC-7 EXTRACT & MINT (COOL-LIT WATERMELON MASSAGE BAR) ID-10 USING A NOVEL NANOPOROUS NICKEL OXIDEZINC OXIDE NANOCOMPOSITE FILM FOR RAPID HUMIDITY CONTROL ID-11 MAGNETORHOLOGICAL ELASTOMER ENGINE MOUNT GOLD ID-12 LOW COST BIOGENIC NANOPARTICLES FOR WASTERWATER TREATMENT GOLD ID-13 GRADED Z- SHIELDING MATERIAL FROM POLYMERIC WASTE MATERIAL ID-14 HPACKED: RECHARGEABLE HYDROGEN STORAGE FOR LIGHT DUTY VEHICLES ID-14 MODIFIED GHECICARIFIED BUTTER COMPOSITION FOR FOOD TECHNOLOGY ID-14 HPACKED: RECHARGEABLE HYDROGEN STORAGE FOR LIGHT DUTY VEHICLES ID-15 MODIFIED GHECICARIFIED BUTTER COMPOSITION FOR FOOD TECHNOLOGY ID-16 MODIFIED GHECICARIFIED BUTTER COMPOSITION FOR FOOD TECHNOLOGY ID-17 AND CONTROL DEPOSITION APPROACH ID-18 REZNO-FHSOI: NOVEL PAPER-BASED COMPOSITE HUMIDITY SENSOR SYNTHESIZED VIA ELECTROCHEMICAL DEPOSITION APPROACH ID-19 REZNO-FHSOI: NOVEL PAPER-BASED COMPOSITE HUMIDITY SENSOR BASED ON SUPERLATIVE POLYCRYSTALLINE NANOSTRUCTURED ZINO POWDER AND REDUCED GRAPHENE OXIDE AUGMENTATION OF POWER CONVERSION EFFICIENCY OF HYBRID SOLAR CELLS BY UTILISING VERTICALLY ALIGNED ZAO NANOWRDS AS PHOTOANODE VIA NOVEL MICROWAVE-ASSISTED SONICATION APPROACH ID-8 REPORMED POLYIMDE/NANOCRYSTALLINE CELLULOSE FOR GAS SEPARATION ID-9 RIZBRUNANA: FROM WASTE TO HEALTHY HIGH FIBRE BISCUIT ID-10 MAGSORB FOR EFFICIENT WASTEWATER TREATMENT DURING COVID-19 PANDEMIC IE-10 MAGSORB FOR EFFICIENT WASTEWATER TREATMENT DURING COVID-19 PANDEMIC IE-10 DEVELOP OF PIEZOELECTRIC RAINDROP ENERGY HAVESTER	IB-8 IC-10 IC-20 IC-26 IC-4 IC-6 IC-7	BOX ENHANCED HOTSPOT MAPS OF TB, MALAYSIA ARCHIMEDEAN NANOMIP SENSOR: A PROGNOSTIC DEVICE FOR CLOTTING DISEASE DETECTION GSM PATIENT HEARTBEAT MONITORING SYSTEM SPEEDDNA ISOLATION KIT ICOMPBAG MASSAGE BAR ADDED WITH WATERMELON SKIN EXTRACT & MINT (COOL-LIT WATERMELON MASSAGE BAR) ULTRA-SENSITIVE HUMIDITY SENSOR CONSTRUCTED USING A NOVEL NANOPOROUS NICKEL OXIDE/ZINC OXIDE NANOCOMPOSITE FILM FOR RAPID HUMIDITY	GOLD GOLD GOLD GOLD
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IE-19 HYBRID SOLAR AGRICULTURAL PUMPING SYSTEM GOLD	IE-19		/ 3/ 31 13

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IA-51 THE EYE : HUMAN SAFETY INTEGRATED SYSTEM USING		THINGS (IOT) FOR INDUSTRIAL SECURITY APPLICATION	
I IA-51 I I	IA-50		SILVER
 	IA-51		
IA-52 GSM BASED SMART ENERGY METER SILVER	IA-52	GSM BASED SMART ENERGY METER	
IA-53i ONLINE CLASS MONITOR SYSTEM SILVER	IA-53i	ONLINE CLASS MONITOR SYSTEM	SILVER

	ECO-BAT	SILVER
IA-54i IA-58i	ABL (ANTI BIN LEFTOVER BATTERY)	SILVER
IA-67i	AUTONOMOUS CAR PARKING SYSTEM	SILVER
	A LOCALISATION OF MOISTURE DISTRIBUTION IN RICE	
IA-7	VIA RF SIGNAL ASSISTED BY MAPPING IMAGE	SILVER
IA-70i	IOT BASED SMART MIRROR	SILVER
	AN ENHANCED SELF GUIDANCE SMART STICK FOR A	
IA-71i	VISUALLY IMPAIRED	
	PERSON	SILVER
	IOT BASED PESTICIDES MONITORING SYSTEM IN FOOD	
IA-73i	PRODUCTS	SILVER
	S-BEE	
IA-8	(DESIGN OF IOT-BASED STINGLESS BEE FOR	
	MONITORING SYSTEM)	SILVER
	SAFETY TESTING OF AUTONOMOUS VEHICLE USING	
IB-1	VEHICLE DRIVING PLATFORM FOR MALAYSIAN	
	ENVIRONMENT	SILVER
IB-11	SMART CASHIER	SILVER
	SMART GLASS BOTTLE MOLDING AND FILLING	
IB-18i	OPERATION USING MODULAR PLC	SILVER
IB-2	ULTRAVIOLET GERMICIDAL IRRADIATION (UVGI) DEVICE	
15 2	TO DISINFECT SURFACE AND AIRBORNE PATHOGENS.	SILVER
	DESIGN A POKO YOKE JIG TO IMPROVE STATIONARY	
IB-20	SPOT WELDING (SSW) QUALITY FOR AUTOMOTIVE	
15 20	CHILD PARTS	SILVER
IB-28	VEHICULAR HEATSTROKE SENSOR DEVICE VHSD	SILVER
15 20	MODELLING THE ENERGY EXTRACTION FROM LOW-	
IB-29	VELOCITY STREAM WATER BY SMALL SCALE	
15 20	ARCHIMEDES SCREW TURBINE	SILVER
	ESTABLISHMENT OF RISK ALGORITHM FOR FATIGUE	
IB-34		
	LIFE CRITERION (RAFL)	SILVER
	LIFE CRITERION (RAFL) COMPUTATIONAL PROCEDURE FOR DETECTING THE	SILVER
IB-35	COMPUTATIONAL PROCEDURE FOR DETECTING THE	SILVER SILVER
IB-35	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES	
	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR	
IB-35 IB-4	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING	SILVER
IB-35	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF	SILVER
IB-35 IB-4 IB-40	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA)	SILVER
IB-35 IB-4	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS)	SILVER SILVER
IB-35 IB-4 IB-40 IB-41	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS) MODERNIZATION OF AUTOMATED GUIDED VEHICLE BY	SILVER SILVER
IB-35 IB-4 IB-40	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS)	SILVER SILVER
IB-35 IB-4 IB-40 IB-41 IB-46i	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS) MODERNIZATION OF AUTOMATED GUIDED VEHICLE BY USING ULTRASONIC SENSOR AND RFID TECHNOLOGIES	SILVER SILVER SILVER SILVER
IB-35 IB-4 IB-40 IB-41	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS) MODERNIZATION OF AUTOMATED GUIDED VEHICLE BY	SILVER SILVER SILVER SILVER
IB-35 IB-4 IB-40 IB-41 IB-46i	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS) MODERNIZATION OF AUTOMATED GUIDED VEHICLE BY USING ULTRASONIC SENSOR AND RFID TECHNOLOGIES DESIGN AND FABRICATION OF HYBRID ELECTRIC	SILVER SILVER SILVER SILVER
IB-35 IB-4 IB-40 IB-41 IB-46i IB-49i	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS) MODERNIZATION OF AUTOMATED GUIDED VEHICLE BY USING ULTRASONIC SENSOR AND RFID TECHNOLOGIES DESIGN AND FABRICATION OF HYBRID ELECTRIC SCOOTER	SILVER SILVER SILVER SILVER SILVER
IB-35 IB-4 IB-40 IB-41 IB-46i IB-49i IB-5 IB-51i	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS) MODERNIZATION OF AUTOMATED GUIDED VEHICLE BY USING ULTRASONIC SENSOR AND RFID TECHNOLOGIES DESIGN AND FABRICATION OF HYBRID ELECTRIC SCOOTER UTM-SHAFT: AN INNOVATIVE FLOATING TURBINE DOMESTIC SEWAGE CLEANING MACHINE	SILVER SILVER SILVER SILVER SILVER SILVER
IB-35 IB-4 IB-40 IB-41 IB-46i IB-49i IB-5	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS) MODERNIZATION OF AUTOMATED GUIDED VEHICLE BY USING ULTRASONIC SENSOR AND RFID TECHNOLOGIES DESIGN AND FABRICATION OF HYBRID ELECTRIC SCOOTER UTM-SHAFT: AN INNOVATIVE FLOATING TURBINE DOMESTIC SEWAGE CLEANING MACHINE AUTOMATIC LIGHT EMITTING DIODE FOG LAMP FOR	SILVER SILVER SILVER SILVER SILVER SILVER
IB-35 IB-4 IB-40 IB-41 IB-46i IB-49i IB-5 IB-51i	COMPUTATIONAL PROCEDURE FOR DETECTING THE PIPELINE IRREGULARITIES HIGH SHREDDING POWER MACHINE FOR AGRICULTURAL WASTE TO FIBRE PROCESSING OPTIMIZED MSMC FOR POSITION CONTROL OF INDUSTRIAL ELECTRO-HYDRAULIC ACTUATOR (EHA) SMART TRACKING SYSTEM (STS) MODERNIZATION OF AUTOMATED GUIDED VEHICLE BY USING ULTRASONIC SENSOR AND RFID TECHNOLOGIES DESIGN AND FABRICATION OF HYBRID ELECTRIC SCOOTER UTM-SHAFT: AN INNOVATIVE FLOATING TURBINE DOMESTIC SEWAGE CLEANING MACHINE	SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER

IC-12 IC-13i IC-15i IC-18 IC-2 IC-23 IC-24 IC-25 IC-27 IC-28	PORTABLE VACUUM DRESSING DEVICE (PVDD) FOR HOME TREATMENT BIOMEDICAL WASTE MANAGEMENT AND RECYCLING METHOD FOR HOSPITAL USING IOT A REAL TIME HUMAN POSTURE DETECTION FOR VIRTUAL ENVIRONMENT GENIUSWCHAIR IHELP-EXP A PERSONALISED GLYCAEMIC CONTROL FOR MALAYSIAN ICU DIABETIC PATIENTS. XYLOSWEET AUTOMATED COLONY COUNTER (CFU) WITH TRACEABLE ORIGIN OF SAMPLING DATA I-CHECK: A LOW-COST HEALTH CHECKER USING ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING REAL AND ARTIFICIALLY MOULDED FINGERPRINTS	SILVER
IC-15i IC-18 IC-2 IC-23 IC-24 IC-25 IC-27	METHOD FOR HOSPITAL USING IOT A REAL TIME HUMAN POSTURE DETECTION FOR VIRTUAL ENVIRONMENT GENIUSWCHAIR IHELP-EXP A PERSONALISED GLYCAEMIC CONTROL FOR MALAYSIAN ICU DIABETIC PATIENTS. XYLOSWEET AUTOMATED COLONY COUNTER (CFU) WITH TRACEABLE ORIGIN OF SAMPLING DATA I-CHECK: A LOW-COST HEALTH CHECKER USING ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER
IC-18 IC-2 IC-23 IC-24 IC-25 IC-27	VIRTUAL ENVIRONMENT GENIUSWCHAIR IHELP-EXP A PERSONALISED GLYCAEMIC CONTROL FOR MALAYSIAN ICU DIABETIC PATIENTS. XYLOSWEET AUTOMATED COLONY COUNTER (CFU) WITH TRACEABLE ORIGIN OF SAMPLING DATA I-CHECK: A LOW-COST HEALTH CHECKER USING ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER SILVER SILVER SILVER SILVER SILVER SILVER
IC-2 IC-23 IC-24 IC-25 IC-27 IC-28	IHELP-EXP A PERSONALISED GLYCAEMIC CONTROL FOR MALAYSIAN ICU DIABETIC PATIENTS. XYLOSWEET AUTOMATED COLONY COUNTER (CFU) WITH TRACEABLE ORIGIN OF SAMPLING DATA I-CHECK: A LOW-COST HEALTH CHECKER USING ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER SILVER SILVER SILVER SILVER SILVER
IC-23 IC-24 IC-25 IC-27 IC-28	A PERSONALISED GLYCAEMIC CONTROL FOR MALAYSIAN ICU DIABETIC PATIENTS. XYLOSWEET AUTOMATED COLONY COUNTER (CFU) WITH TRACEABLE ORIGIN OF SAMPLING DATA I-CHECK: A LOW-COST HEALTH CHECKER USING ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER SILVER SILVER SILVER
IC-23 IC-24 IC-25 IC-27 IC-28	MALAYSIAN ICU DIABETIC PATIENTS. XYLOSWEET AUTOMATED COLONY COUNTER (CFU) WITH TRACEABLE ORIGIN OF SAMPLING DATA I-CHECK: A LOW-COST HEALTH CHECKER USING ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER SILVER SILVER
IC-25 IC-27 IC-28	AUTOMATED COLONY COUNTER (CFU) WITH TRACEABLE ORIGIN OF SAMPLING DATA I-CHECK: A LOW-COST HEALTH CHECKER USING ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER SILVER
IC-25 IC-27 IC-28	AUTOMATED COLONY COUNTER (CFU) WITH TRACEABLE ORIGIN OF SAMPLING DATA I-CHECK: A LOW-COST HEALTH CHECKER USING ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER SILVER
IC-28	ARDUINO A METHOD FOR DISTINGUISHING COVID-19 THROUGH CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER
	CHEST RADIOGRAPH USING AI TECHNIQUES GEMPAQ (GETTING EVERY SMOKER TO PARTICIPATE AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	
IC-29	AND QUIT SMOKING) - MOBILE APPS FOR SMOKING CESSATION NOVEL CHEMICAL ANALYZER FOR DIFFERENTIATING	SILVER
I I		
IC-31i		SILVER
IC-9	NOMINATION OF QUARANTINE FACILITIES VIA DIGITAL SOLUTION	SILVER
ID-20	ANTISTATPAK	SILVER
ID-3	SALUTAN SWA SEMBUH - KAPSUL MINYAK RAMI	SILVER
IE-11	MANGO PLANT HEALTH EVALUATION USING MACHINE VISION UTILIZING NDVI IMAGES	SILVER
IE-12	AUTOMATED WATER QUALITY MONITORING & CONTROL SYSTEM FOR HYDROPONICS APPLICATION	SILVER
IE-13	E-PROSUMER: SMART PRECISION FERTIGATION SYSTEM	SILVER
IE-14	FINITE DIFFERENCE TIME DOMAIN METHOD (FDTD) MODELING OF UNDERGROUND WATER PIPELINE FOR LEAKAGE DETECTION	SILVER
IE-16	OIL PALM FROND FIBER WASTEWATER FILTER IN PALM OIL MILL EFFLUENT TREATMENT	SILVER
IE-17	O' FILTERZ	SILVER
IE-18	SCIENTIFIC ECO-AGRO TOURISM MODEL IN MERAPOH, PAHANG	SILVER
IE-2	HIGH ORDER IMPLICIT NUMERICAL SCHEME FOR ATMOSPHERIC CHEMICAL KINETIC EQUATIONS	SILVER
IE-20	DRONE PAYLOAD AIR QUALITY MEASUREMENT DEVICE (D-PAQ)	SILVER
IE-24	ACQAMON : AQUAFARMING WATER QUALITY MONITORING USING MULTI-SENSORY SYSTEM	SILVER
IE-28i	AUTOMATIC WEED PLANT REMOVAL SYSTEM	SILVER
IE-5	CHICHIMAU	SILVER
IE-9	EXPERIMENTAL STUDY ON COFFEE HUSK AS PARTIAL REPLACEMENT OF FINE AGGREGATE IN CONCRETE WALKWAY	SILVER

		OIL VED
IF-1	IFITTKIDS MODULE	SILVER
IF-10	ELECTRONIC CIRCUIT TRAINER	SILVER
IF-11	REV-LAB: REACTION ENGINEERING VIRTUAL LAB	SILVER
IF-13	VR EDUTAINMENT FOR EXPERIENTIAL ACTIVE	OII VED
	LEARNING (V-REAL)	SILVER
IF-14	MATRIX MAGIC CUBE	SILVER
IF-19	QOTD: A STUDENT-TEACHER REFLECTION KIT IN ODL	SILVER
IF-2	HOME LEARNING TOOL KITS FOR SPECIAL NEEDS STUDENTS	SILVER
IF-29	HANI- JOM LIHAT GAMBAR	SILVER
IF-36	EDUCOMIC TANI	SILVER
11 -30	WIZER INTERACTIVE LEARNING: COUNTABLE AND	OILVEIX
IF-40	UNCOUNTABLE NOUNS	SILVER
IF-43	FUND FOR FOOD: FOOD PANTRY COMPLETE GUIDE TO	
II- 4 3	HELP FIGHT HUNGER ON CAMPUS	SILVER
IF-44	KELOPAK PENTAGON KPS	SILVER
IF-48	MUDAH.CS2	SILVER
	ENGAGING STUDENTS IN LEARNING MATHEMATICS	
IF-51	THROUGH VIRTUAL REALITY (VR)	SILVER
	NEW APPROACH TO CULTURE AND HERITAGE	
IF-53	PROGRAM	SILVER
IF-56	MY VOCAB BLIPPAR PUZZLE BLOCK	SILVER
IF-57	KEEP YOUR VOICE	SILVER
IF-59	DESIGN OF MOBILE APPS TEXTBOOK (WITH CLOUD BASED SYSTEM) WITHOUT USING E-PUB FORMAT TO SUPPORT THE NEEDS OF SMARTPHONE OWNED BY B40	SILVER
IF-61	E-KOKU SRISKU	SILVER
IF-63	DIGITAL CULTURAL HERITAGE LEARNING SOFTWARE FOR 'WAYANG KULIT'	OII VED
IF-64		SILVER
	HERBAL FACE MASK WITH MODERN BATIK DESIGN	SILVER SILVER
IF-68	HERBAL FACE MASK WITH MODERN BATIK DESIGN ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA	SILVER
IF-68	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA	SILVER SILVER
		SILVER
IF-68	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE	SILVER SILVER
IF-68 IF-69 IF-72	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE	SILVER SILVER SILVER
IF-68 IF-69	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE	SILVER SILVER SILVER SILVER
IF-68 IF-69 IF-72	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE	SILVER SILVER SILVER SILVER SILVER
IF-68 IF-69 IF-72 IF-74	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION	SILVER SILVER SILVER SILVER SILVER SILVER SILVER
IF-68 IF-69 IF-72 IF-74 IF-75	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION BIO PUPPET SHOW	SILVER SILVER SILVER SILVER SILVER
IF-68 IF-69 IF-72 IF-74 IF-75 IF-77	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION BIO PUPPET SHOW ZOOLOGY VENTURES	SILVER SILVER SILVER SILVER SILVER SILVER SILVER
IF-68 IF-69 IF-72 IF-74 IF-75 IF-77 IF-78	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION BIO PUPPET SHOW ZOOLOGY VENTURES KIPEM - KIPAS PEMBEZAAN MATRIKULASI	SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER
IF-68 IF-69 IF-72 IF-74 IF-75 IF-77 IF-78 IF-85	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION BIO PUPPET SHOW ZOOLOGY VENTURES KIPEM - KIPAS PEMBEZAAN MATRIKULASI CHATMATE	SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER
IF-68 IF-69 IF-72 IF-74 IF-75 IF-77 IF-78 IF-85 IF-88	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION BIO PUPPET SHOW ZOOLOGY VENTURES KIPEM - KIPAS PEMBEZAAN MATRIKULASI CHATMATE TETINGKAP MOKK	SILVER
IF-68 IF-69 IF-72 IF-74 IF-75 IF-77 IF-78 IF-85 IF-88 IF-9	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION BIO PUPPET SHOW ZOOLOGY VENTURES KIPEM - KIPAS PEMBEZAAN MATRIKULASI CHATMATE TETINGKAP MOKK EPHYSICS INTERACTIVE LEARNING (EPIL) CYCAL COVITAL - IOT BASED REAL-TIME COVID-19 PATIENT	SILVER
IF-68 IF-69 IF-72 IF-74 IF-75 IF-77 IF-78 IF-85 IF-88 IF-9 IA-14	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION BIO PUPPET SHOW ZOOLOGY VENTURES KIPEM - KIPAS PEMBEZAAN MATRIKULASI CHATMATE TETINGKAP MOKK EPHYSICS INTERACTIVE LEARNING (EPIL) CYCAL COVITAL - IOT BASED REAL-TIME COVID-19 PATIENT HEALTH MONITORING SYSTEM	SILVER
IF-68 IF-69 IF-72 IF-74 IF-75 IF-77 IF-78 IF-85 IF-88 IF-9 IA-14	ZERO TO HERO: MUDAHNYA POWERPOINT DAN CANVA CODING EDUCATIONAL GAMES FOR KIDS ONLINE CLASS ATTENDANCE RECORD FORM WEBSITE DESIGNING AND DEVELOPING YEAR ONE SCIENCE PEDAGOGICAL MODULE USING STEAM EDUCATION BIO PUPPET SHOW ZOOLOGY VENTURES KIPEM - KIPAS PEMBEZAAN MATRIKULASI CHATMATE TETINGKAP MOKK EPHYSICS INTERACTIVE LEARNING (EPIL) CYCAL COVITAL - IOT BASED REAL-TIME COVID-19 PATIENT	SILVER

IA-29	HYBRID COOLING SYSTEM FOR SOLAR PV MODULES	BRONZE
IA-34	IMPLEMENTATION OF A SMARTPHONE CHARGING	
1/1-54	SYSTEM USING RFID	BRONZE
IA-40	MULTIWAVELENGTH FIBER LASER BASED ON LYOT	
	FILTER ASSISTED BY RAYLEIGH BACKSCATTERING	BRONZE
IA-45	IOT BASED DOOR SECURITY ALARM USING BLYNK	BRONZE
IA-47	SECURITY SYSTEM AND ACCESS CONTROL WITH	
17 (- 47	ARDUINO AND RFID	BRONZE
IA-55i	A NOVEL E-LEARNING CONTENT FOR FUTURE	DDONZE
	DEVELOPMENT	BRONZE
IA-59i	ANTIBACTERIAL AND ANTIVIRAL FUNCTIONING	DDONZE
	ORGANIC MATERIALS TOWARDS TACKLING COVID-19	BRONZE
IA-60i	FEILD IRRIGATION SYSTEM	BRONZE
IA-61i	IOT BASED SMART WASTE MANAGEMENT SYSTEM	BRONZE
IA-62i	BLIND SPOT DETECTION ON HEADLIGHTS	BRONZE
IA-64i	INTELLIGENT UMBRELLA	BRONZE
IA-68i	AUTO TEMPERATURE DETECTOR IN ENTRANCE FOR	DDONZE
	COVID SAFETY	BRONZE
IA-69i	SUSPECT DETECTOR	BRONZE
IA-77i	SMART MONITORING OF FOOD WAREHOUSES	BRONZE
	AI-AUGMENTED BEHAVIOR ANALYSIS FOR CHILDREN	
IA-79i	WITH AUTISM: A TECHNOLOGY FOR FUTURE	DDONZE
	DIAGNOSTICS	BRONZE
14 04:	IOT BASED AUTOMATED PARALYSIS PATIENT HEALTH	
IA-81i	CARE SYSTEM DURING COVID 19 PANDEMIC SITUATION	BRONZE
	A WASTE INCINERATOR PROTOTYPE FOR ENERGY	DITONZL
IB-30	GENERATION SYSTEM	BRONZE
IB-33	PORTABLE ROLLER BENDING MACHINE	BRONZE
10-33	DESIGN AND ANALYSIS OF FLOUR SIEVING MACHINE	BRONZE
IB-38	PROTOTYPE USING AUTODESK	
10-30	INVENTOR SIMULATION	BRONZE
	DESIGN AND IMPLEMENTATION OF AUTOMATIC	
IB-47i	HEADLIGHT DIMMER FOR TWO WHEELERS USING	
15 7/1	ARDUINO CONTROLLER	BRONZE
		-
IB-48i	DESIGN AND FABRICATION OF ELECTRIC MOTORCYCLE	BRONZE
ID		
IB-50i	REAL TIME FACE RECOGNITION SURVEILLANCE DRONE	BRONZE
	DIABETIC FOOT ULCER DETECTION AND HEALING	
	METHODS USING DEEP LEARNING NEURAL	
IC-14i	NETWORKING	BRONZE
IC-16i	IOT BASED DIALYSIS PATIENT MONITORING SYSTEM	BRONZE
IC-17i	EFFICIENT BODY PAIN RELIEVER SYSTEM	BRONZE
10.40	DEEP CONVOLUTIONAL GENERATIVE ADVERSARIAL	
IC-19	NETWORK FOR DIABETIC RETINOPATHY	BRONZE
	AUTOMATED ANESTHESIA CONTROL SYSTEM USING	
IC-22i	LABVIEW	BRONZE
IC-3	ANTIBACTERIAL FABRIC	BRONZE
IC-30	CLOVES HONEY PASTILLES	BRONZE

ID-15	DURIOSEEDSACCHARINE™:AS FUTURE SUGARS RESOURCES	BRONZE
ID-16	REAL-TIME TEMPERATURE LOGGER FOR COLD FOOD DELIVERY LOGISTICS	BRONZE
ID-19	POLYVASOL POLYVINYL ALCOHOL/CASSAVA STARCH DISSOLVABLE	BRONZE
IE-21	ECO ZNO/SBR: FLOATING PHOTOCATALYST FOR DYE REMOVAL	BRONZE
IE-22	A PROTOTYPE OF FLOOD RISK REDUCTION GUIDELINE FOR COMMUNITY IN KOTA BHARU FLOODPLAIN, KELANTAN.	BRONZE
IE-26i	SUSTAINABLE BUILDING MATERIALS	BRONZE
IE-27i	WEALTH FROM WASTE	BRONZE
IE-30i	SMART GARDENING SYSTEM USING IOT	BRONZE
IF-3	MD LEGO	BRONZE
IF-39	TSSP MEASUREMENT MODEL	BRONZE
IF-41	TAKE 10 KICK 1	BRONZE
IF-50	NU-TECH STEM MODULE	BRONZE
IF-54	MYLINK PVMA SMANSOR	BRONZE
IF-71	E-HADIR PDPR SYSTEM	BRONZE
IA-75i	AUTONOMOUS BUILDING MANAGEMENT SYSTEM	BRONZE
IA-80i	TRAFFIC CONTROL MANAGEMENT USING BARCODE SENORS	BRONZE
IB-12	MODELING AND CONTROLLER DESIGN FOR ELECTRO-HYDRAULIC ACTUATOR (EHA) SYSTEM	BRONZE
IB-13	OPTIMIZATION OF PID CONTROLLER FOR ELECTRO- HYDRAULIC SYSTEM USING PARTICLE SWARM OPTIMIZATION	BRONZE
IB-45i	SEMI-AUTOMATIC SOWING MACHINE	BRONZE
IB-52i	ADAPTIVE CRUISE CONTROL FOR INTELLIGENT VEHICULAR FLOW USING ARDUINO	BRONZE