

Singapore Science and Engineering Fair 2024 Results of Preliminary Judging

Project Code	Project Title
Junior Scientist Category	
JBI002	INVESTIGATING THE BIOACTIVE COMPOUNDS PRESENT IN LION'S MANE MUSHROOM
JBI003	DEVELOPMENT OF BIOPLASTICS SUPPLEMENTED WITH NATURAL PRODUCTS AS ALTERNATIVES TO SYNTHETIC PLASTICS
JBI004	CONTROLLING FILAMENTOUS ALGAE GROWTH IN FRESHWATER PONDS THROUGH THE USE OF CHITOSAN EXTRACTED FROM CRUSTACEAN SHELLS
JBI006	INVESTIGATING THE NUMBER AND CONFIGURATION OF MAN-MADE STRUCTURES ON THE EFFECTIVENESS OF ECOLOGICAL SEAWALLS
JBI009	SUPPLEMENTATION OF LION'S MANE MUSHROOM IN THE DIET OF ALZHEIMER DROSOPHILA MELANOGASTER
JBI013	INVESTIGATION OF THE EFFECT OF DIFFERENT ANTI-BIOTIC DRUGS ON THE GROWTH OF E.COLI COLONIES
JBI017	INVESTIGATION OF THE EFFECT OF DIFFERENT TYPES OF COFFEE GROUNDS AS FERTILISERS ON THE RATE OF PLANT GROWTH
JBI018	INVESTIGATION OF THE BACTERIA GROWTH UNDER LIGHTS OF DIFFERENT COLOURS
JBI022	THE CURIOUS CASE OF BIOFLUORESCENCE IN PINEAPPLES
JBI025	GLYOXALASE RESCUES CELLS FROM SPIKE-INDUCED DEATH
JBI028	INVESTIGATING THE NUTRIENT AVAILABILITY OF COMPOST TEA MADE FROM DIFFERENT FOOD WASTE
JBI029	INVESTIGATING THE ANTIBACTERIAL PROPERTIES OF FRUIT PEEL EXTRACTS
JBI033	INVESTIGATING THE FEASIBILITY OF BIODEGRADABLE SEEDLING POTS FROM FOOD WASTE
JCH005	REMOVING CONTAMINANTS FROM WATER WITH COMMERCIALY AVAILABLE ACTIVATED CARBON AND ZEOLITE
JCH006	INVESTIGATING THE FEASIBILITY OF AN ENZYME-BASED CLEANING AGENT ON PROTEIN STAINS
JCH009	INVESTIGATION OF THE GALLIUM-ALUMINIUM RATIO ON THE PRODUCTION OF HYDROGEN GAS
JCH010	THE EFFECT OF CREAM OF TARTAR ON THE RESTING TIME OF MACARONS
JCH012	EVALUATING THE USE OF MIXED METAL HYDROXIDES FOR THE REMOVAL OF AZO DYES
JMA001	MAKE24: BOUNDING THE GENERALISED FORM OF A NUMBERS GAME
JMA002	EXPANDING ON THE COLLATZ CONJECTURE
JMA005	DYNAMIC BEHAVIORS OF MODIFIED SIRS MODELS
JMA006	POWERED CYCLE SUBTRACTION
JPH001	AN INVESTIGATION ON THE EFFECTIVENESS OF USED COSMETIC SHEET MASKS AS A REUSABLE WHITEBOARD DUSTER
JPH002	INVESTIGATION OF THE EFFECT OF CARBON DIOXIDE CONCENTRATION ON THE TEMPERATURE OF AIR IN A CLOSED CONTAINER WHEN EXPOSED TO SUNLIGHT
JPH003	INVESTIGATION OF THE TRANSMISSION RATIO OF DIFFERENT FLUIDS
JPH004	INVESTIGATION OF THE EFFECT OF ENERGY SUPPLIED ON THE TEMPERATURE OF A PELTIER CELL
JPH006	INVESTIGATION OF HOW SIMULATING MICROGRAVITY AT DIFFERENT CLINOSTAT ROTATIONAL SPEEDS WILL AFFECT THE GROWTH OF PLANTS
JPH011	INVESTIGATING THE EFFECT OF BUILDING CONFIGURATION IN ENHANCING NATURAL VENTILATION IN COMMON SPACES, TO ACHIEVE HUMAN THERMAL COMFORT
JPH013	INVESTIGATING THE FEASIBILITY OF SCOBY LEATHER AS A SUSTAINABLE LEATHER ALTERNATIVE
JPH016	SMALL-SCALE EXPERIMENTAL STUDY ON THE OPTIMISATION OF A ROOFTOP RAINWATER ENERGY HARVESTER
JPH019	TERRACOLTA TECH

Project Code	Project Title
Main Category	
AS002	DEVELOPMENT OF AN INTELLIGENT SYSTEM FOR MONITORING BIRD'S HEALTH IN THE NEW MANDAI BIRD PARADISE
AS003	EFFECT OF SELECTED HERBS ON REDUCING MOTOR DYSFUNCTION IN A CAENORHABDITIS ELEGANS MODEL OF AMYOTROPHIC LATERAL SCLEROSIS
AS005	DETERMINING THE VISUAL AND AUDITORY LEARNING CAPACITIES OF HAMSTERS
AS006	INVESTIGATION ON THE MOST EFFECTIVE ORGANIC PESTICIDE FOR FARMERS IN DEVELOPING COUNTRIES
AS009	INVESTIGATING THE EFFECTS OF DIFFERENT NUTRIENTS ON THE SLEEP OF LARVAL ZEBRAFISH FOR APPLICATION IN HUMANS
AS010	INVESTIGATING THE EFFECTS OF INGESTION OF DIFFERENT SUGARS AND SUBSTITUTES ON CARDIOVASCULAR HEALTH IN LARVAL ZEBRAFISH FOR APPLICATION IN HUMANS
AS013	BEE SIZE AS A PREDICTOR OF NESTING AND POLLINATION IN LOCAL SPECIES
AS014	LIGHT POLLUTION AND CHANGES IN THE EYES OF BEETLES
AS019	FACTORS AFFECTING HERMETIA ILLUCENS (BLACK SOLDIER FLY) IN DIGESTING CERTAIN TYPES OF FOOD WASTE AND QUALITY OF FRASS PRODUCED
BE001	SELF-POWERED TRIBOELECTRIC NANOGENERATOR FOR DYNAMIC MULTIDIRECTIONAL PRESSURE SENSING
BE002	DEVELOPMENT OF AN INTELLIGENT SYSTEM FOR GLAUCOMA AND EYE TESTING USING VIRTUAL REALITY AND DATA ANALYTICS
BE004	PREDICTING STRESS LEVELS DURING A MENTAL ARITHMETIC TASK FROM EEG DATA
BE007	LATERAL FLOW ASSAYS FOR THE RAPID DETECTION OF VIRUSES
BE008	QUANTIFYING AND CORRECTING SPHERICAL ABERRATIONS FOR DEEP IMAGING OF CLEARED TISSUE
BE011	ANTIBACTERIAL, ANTIFUNGAL, AND ANTIOXIDANT PROPERTIES OF COMMON SEEDS AND THEIR APPLICATIONS TO FOOD PRESERVATION
BE012	INVESTIGATING THE HUMAN LONGEVITY PROPERTIES OF HUMAN UMBILICAL CORD TISSUE IN THE PREVENTION AND CURE OF AGE-RELATED DISEASES
BE016	EX VIVO ENGINEERING OF CELLULAR SURFACES, A TRANSFECTION INDEPENDENT APPROACH.
BE017	TINY TITANS: NANOBODIES AS UNIVERSAL BINDERS IN SPLIT PROXIMITY CIRCUITS FOR PROTEIN DETECTION
BE018	DEVELOPING NOVEL PHASE RETRIEVAL ALGORITHMS AND FOURIER RING ANALYSIS OF ACCURACY LIMITATIONS UNDER IMAGING AND PROPAGATION ERRORS
BE019	DEVELOPMENT OF NOVEL PRIME EDITORS FOR PRECISION GENOME ENGINEERING
BE022	PROJECT METASENSE: A ROBUST CARDIOMETABOLIC MONITORING SYSTEM TO DETECT DROWSY DRIVING
BE025	WORDS THAT HEAL: RETRIEVAL-AUGMENTED LARGE LANGUAGE MODELS FOR ENHANCED MEDICAL REPORT GENERATION
BE027	DEVELOPING A TIME-DOMAIN NEAR-INFRARED SPECTROSCOPY DEVICE TO AID THE DIAGNOSIS OF MAJOR DEPRESSIVE DISORDER
BE028	WIRELESS MULTI-MODAL PHYSIOLOGICAL SENSING AND DATA ANALYSIS
BI002	INVESTIGATING THE POTENTIAL OF DIRUTHENIUM CARBONYL COMPLEXES AS DNA BINDERS
BI003	CONTRIVANCE OF SOLVENT-ENHANCED BIOACTIVE EXTRACTS FOR CASEOUS LACTICINIA PRESERVATION
BI006	OPTIMISING PROTOCOLS FOR THE ANALYSIS OF FATTY ACIDS AT THE SN-2 POSITION IN FORMULA MILK
BI007	SYNTHESIS OF A-MANGOSTIN SILVERNANOPARTICLES
BI010	BUTYRATE DETECTION IN HYDROPONICALLY GROWN VERSUS SOIL-BASED VEGETABLES USING COLOURIMETRY AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)
BI011	CHARACTERISATION AND OPTIMIZATION OF EXTRACTION METHODS TO EXTRACT POLYHYDROXYALKANOATE FROM SPIRULINA(ARTHROSPIRA)
BI016	ENGINEERING IMPROVED POLYPEPTIDE VARIANTS OF ARCHAEAL SPECIFIC TARGET RECOGNITION LIGASE RECOGNITION SEQUENCE
BM002	INVESTIGATING THE EFFECTS OF PLANT EXTRACTS ON ALZHEIMER'S DISEASE
BM003	DYSREGULATION OF MYELIN-RELATED GENES IN NOTCH2NL1-ASSOCIATED NEURODEGENERATIVE DISEASES
BM005	UNDERSTANDING THE MECHANISMS OF PARP INHIBITOR (PARPI) RESISTANCE
BM006	EFFECT OF BERRY EXTRACTS ON SACCHAROMYCES CEREVISIAE WHEN EXPOSED TO FREE RADICALS
BM007	EXPLORING THE ANTICANCER POTENTIAL OF PHYTOCHEMICALS USING YEAST AS A MODEL ORGANISM
BM008	VALIDATION OF NOVEL ANALOGUES OF AN FDA-APPROVED ANTI-CANCER MOLECULE TO ALLEVIATE THE BURDEN OF ATOPIC DERMATITIS
BM011	EFFECTS OF INTERNAL AND EXTERNAL FOCUS OF ATTENTION FEEDBACK ON YOUTH NOVICE AND INTERMEDIATE INLINE SKATING PERFORMANCE

Project Code	Project Title
BM012	NEOANTIGENS IN IMMUNOTHERAPY: FROM THEORY TO PRACTICE
BM014	NEURONAL AND VASCULAR DECOUPLING IN THE EYE
BM015	DEVELOPING VEGAN-BASED BEEF FLAVOURINGS THROUGH RATIONAL CHEMICAL ANALYSIS AND DESIGN METHODOLOGIES
BM016	SKIN PROTEOMICS FOR ASIAN ATOPIC DERMATITIS
BM017	COMPARISON OF THE EFFECTIVENESS OF THE 'DOG AND BALL' EXERCISE AND CONCENTRATION GRID TEST ON THE REACTION TIME IN SQUASH PLAYERS
BM020	INVESTIGATION OF THE USE OF SILVER IN THE DEVELOPMENT OF A LATERAL-FLOW IMMUNOASSAY FOR THE DETECTION OF HEPATITIS B IN SALIVA
BM021	EVALUATION OF POLYGENIC RISK SCORE (PRS) FOR PREDICTING RISK OF CORONARY ARTERY DISEASE (CAD) AND ITS SEVERITY
BM022	ROLES OF METABOLITES IN CANCER GROWTH
BM023	USING CAENORHABDITIS ELEGANS AS A MODEL ORGANISM TO INVESTIGATE THE EFFECTS OF ARTHROSPIRA PLATENSIS ON ALZHEIMER'S DISEASE
BM024	COMPARISON OF A 4-WEEK WEIGHTS TRAINING PROGRAM VERSUS A SPRINT AND PLYOMETRIC PROGRAMME ON LONG JUMP DISTANCE
BM025	INVESTIGATION INTO THE EFFICACY OF SELF-ASSEMBLED FOOD PROTEINS IN ENHANCING THE DELIVERY OF BIOAVAILABLE IRON
BM028	INVESTIGATION OF HOW SODIUM CONCENTRATION IN SALTS AFFECTS UMAMI FLAVOURS PRODUCED IN SHIITAKE MUSHROOMS (LENTINUS EDODES) DURING FERMENTATION
BM030	SPIKE DAMAGES MITOCHONDRIA TO SWITCH CELLS TO AEROBIC GLYCOLYSIS
BM031	COMPARING ACMG AND MULTIPLE CURATION PLATFORMS FOR THE DIAGNOSIS OF IRDS AND OTHER GENETIC DISEASES
BM032	ASSESSING THE CROSS-SECTIONAL ASSOCIATION AND PROGNOSTIC ABILITY OF SEVERAL MARKERS OF NEURODEGENERATION
BM034	ENHANCED PROTECTION AGAINST OXIDATIVE STRESS IN A RETINAL EPITHELIUM MODEL THROUGH PRE-ABSORPTION OF LUTEIN
BM035	INVESTIGATING THE EFFECTS OF THE DURATION OF MODERATE TO VIGOROUS EXERCISE ON BONE MINERAL DENSITY IN ELDERLY PEOPLE AGED 65 AND ABOVE
CB002	OPTIMISING IN VITRO GENERATION AND CHARACTERISATION OF STEM CELL DERIVED PHOTORECEPTOR CELLS FOR RETINAL THERAPEUTICS
CB003	ROLE OF B-CAT-TCF TRANSCRIPTION IN ANTIGEN PRESENTATION AND PROCESSING IN COLORECTAL CANCER
CB005	GLYCOLYSIS AND DNA REPAIR: NOVEL ROLES OF PYRUVATE KINASE IN THE DNA DAMAGE RESPONSE
CB006	HOW METABOLIC ENZYMES TPI AND GAPDH LINK GLYCOLYSIS AND CANCER
CB009	IDENTIFICATION OF DISTINCTIVE CELLULAR MORPHOLOGY OF TUMOR INFILTRATED LYMPHOCYTES ACROSS TUMOR TYPES
CB010	DEVELOPMENT OF NEW CRISPR TOOLS FOR MORE EFFICIENT TRANSCRIPTOME ENGINEERING
CB015	DIRECTING ALTERNATIVE RNA SPLICING OF THE OAS1 GENE BY NUCLEIC ACID THERAPEUTICS
CB016	NOVEL TECHNOLOGIES TARGETING LAMINA-ASSOCIATED HETEROCHROMATIN DOMAINS FOR FUTURE INSIGHTS INTO DEVELOPMENTAL GENE REGULATION AND DISEASE MECHANISMS
CB018	INVESTIGATING THE ROLE OF BRANCHED-CHAIN KETO ACIDS AS SIGNALLING MOLECULES IN HEPATOCELLULAR CARCINOMA
CH001	ASSESSMENT OF THE UMAMI FLAVOUR OF COMMERCIAL MEAT AND PLANT-BASED MEAT ANALOGUES
CH002	SYNTHESIS OF MAGNETIC IRON OXIDE AND ITS APPLICATIONS TOWARD METHYLENE BLUE REMOVAL
CH004	PHOTOINDUCED LATE-STAGE FUNCTIONALIZATION OF SULFONAMIDES VIA SMILES REARRANGEMENT
CH006	SYNTHESIS, CHARACTERISATION, AND DNA BINDING STUDIES OF RUTHENIUM(II) ARENE COMPLEXES WITH AMINO ACID-DERIVED REDUCED SCHIFF BASE LIGANDS
CH007	INVESTIGATING THE PROPERTIES OF MAGNETIZED ACTIVATED CARBON FROM PANDANUS AMARYLLIFOLIUS
CH008	SPATIAL INFORMATION INFERENCE IMPROVES ACTIVATION ENERGY PREDICTIONS
CH009	DEEP LEARNING OF INFRARED SPECTRA FOR BOILING POINT PREDICTION
CH013	DETECTION OF VOLATILE ORGANIC COMPOUNDS IN PRIMARY HUMAN BODY ODOR WITH A POLY-(ACRYLIC ACID) CAPACITIVE SENSOR
CH017	EFFECTS OF COMMON SUGARS ON THE ANTIOXIDANT ACTIVITY IN GREEN TEA (CAMELLIA SINENSIS)
CH019	COMPUTATIONALLY MODELLING THE ABSORPTION SPECTRA OF SUNSCREENING AGENTS
CH020	EXTRACTION OF PHENOLIC COMPOUNDS FROM CITRUS FRUIT PEELS TO INVESTIGATE ITS ANTIOXIDATIVE PROPERTIES
CH022	MICROENCAPSULATION OF VITAMIN C USING PLANT-BASED MATERIALS FOR NUTRACEUTICAL APPLICATIONS

Project Code	Project Title
CH024	QUANTUM COMPUTING IN CHEMISTRY: BENCHMARKING THE PERFORMANCE OF VARIOUS ANSATZES WITH THE VARIATIONAL QUANTUM EIGENSOLVER
CH025	PROCESS SIMULATION: SIMULATING THE PRODUCTION OF STYRENE FROM ETHYLBENZENE
CH027	EFFECT OF DIFFERENT COOKING METHODS ON THE AMOUNT OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) IN SOLANUM TUBEROSUM
CH029	AN INVESTIGATION ON THE EFFECTIVENESS OF PH-RESPONSIVE INDICATORS MADE FROM ANTHOCYANIN FROM BRUISED BLUEBERRIES TO MONITOR THE FRESHNESS OF PRAWNS DURING STORAGE
CH030	PRODUCING THE MOST STABLE INVERT SUGAR IN HOME CONDITIONS
CH031	INVESTIGATING THE POTENTIAL OF NO ₃ - AS THE INTERLAYER ANION IN LIAL-LDH FOR LITHIUM RECYCLING
CH033	WASTE TO WATTS: TRANSFORMING KOMBUCHA WASTE INTO ECO-CAPACITORS
CH037	PHOTOELECTROCATALYSIS OF ORGANIC SYNTHESIS THROUGH THE USE OF METAL HALIDE PEROVSKITES
CH038	SYNTHESISING NOVEL NITROUS OXIDE RELEASING NANOPARTICLES FOR CANCER TREATMENT
CH040	COMPARATIVE ANALYSIS OF SYNTHESIS METHODS FOR MAXIMISING SUPERCAPACITIVE PERFORMANCE IN NICO-LAYERED DOUBLE HYDROXIDES
CH042	ASSESSING THE ENVIRONMENTAL IMPACT OF GREEN SOLVENTS ON THE PHARMACEUTICAL INDUSTRY
CO002	SOLVING THE STRUCTURE OF DENGUE VIRUS SEROTYPE 2 WITH C10 HUMAN ANTIBODY ATTACHED TO IT USING SINGLE PARTICLE ANALYSIS AND MICROGRAPHS BY CRYOGENIC ELECTRON MICROSCOPY (CRYO-EM)
CO004	FIGHTING FUTURE PANDEMICS: A NOVEL APPROACH TO IN SILICO DRUG DISCOVERY FOR GLOBAL HEALTH PRIORITY PATHOGEN NIPAH HENIPAVIRUS
CO006	CANCER THERAPEUTICS: IN SILICO SCREENING OF POTENTIAL UBR5 PROTEIN INHIBITORS
CO007	INVESTIGATING CHANGES IN EEG DURING COGNITIVE TASKS IN THE PRESENCE OF ONE'S SMARTPHONE
CO008	INVESTIGATING CHANGES IN EEG WHILE PERFORMING DIFFERENT COGNITIVE TASKS
CO010	NOVEL BLOOD BIOMARKERS IDENTIFIED FOR EARLY ALZHEIMER'S DISEASE INTERVENTION USING MACHINE LEARNING MODELS
CO013	ICELLSIGHT: AN INTERACTIVE VISUALIZATION TOOL FOR IN-SITU CELLULAR INSIGHTS IN HYPER-PLEX IMMUNOFLUORESCENCE IMAGES
CO017	INVESTIGATING THE RELATIONSHIP BETWEEN MICROCLIMATE FACTORS AND HUMAN EXERCISE PERFORMANCE, FROM A CITIZEN SCIENCE PERSPECTIVE
CO018	DYNAMIC MODELLING OF TRANSCRIPTIONAL RESPONSE FOR ESTROGEN SIGNALLING IN BREAST CANCER CELLS
CO019	ANALYSIS AND MODELLING OF EUTROPHICATION USING SYSTEM DYNAMICS
CO020	INVESTIGATING THE EFFECTS OF MICROCLIMATE ON STUDENTS' STRESS AND EMOTIONS USING ELECTRODERMAL ACTIVITY IN QUASI-FORMAL ACADEMIC CONTEXTS IN SINGAPORE
CO021	IMPROVED DRUG DISCOVERY USING EXISTING COMPUTATIONAL MODELS
CO022	MOLECULAR MECHANISM OF AN HNF1A VARIANT ASSOCIATED WITH TYPE 2 DIABETES RISK
EA002	ENHANCED DISSIMILATORY METAL REDUCTION IN MICROBIAL FUEL CELLS VIA ROOT EXUDATE SUPPLEMENTATION WITH ANODIC MEDIUM OPTIMISATION
EA005	DETECTING MICROPLASTIC PARTICLES IN DRIED APRICOT PACKETS
EA006	OPTIMIZING LEARNING ENVIRONMENTS: A MICROCLIMATE STUDY OF A SCHOOL CAMPUS IN SINGAPORE USING AN INTEGRATED ENVIRONMENT MODELLER SIMULATION TOOL (IEMSIM)
EA007	SENSE OF FOOD RESILIENCE AMONG TEENAGERS IN SINGAPORE
EA008	DETECTING MICROPLASTIC PARTICLES IN COMMERCIAL SALT
EA010	ADVANCING GLOBAL CLIMATE PREDICTION: NEXT-GENERATION CRYOSPHERIC MODELING WITH JACOBIAN-FREE NEWTON-KRYLOV ILU-PRECONDITIONED CGS
EE001	INVESTIGATION OF HOW DIFFERENT WASTE MATERIALS CAN BE RECYCLED TO FORM AN EFFECTIVE GLUE
EE002	INVESTIGATION OF CITRUS PEEL OIL EXTRACT AS PEST MANAGEMENT
EE003	INVESTIGATING THE USE OF EGGSHELLS AS AN ANTIBACTERIAL AGENT AND IN THE REMOVAL OF HEAVY METAL IONS IN WATER
EE004	INVESTIGATING THE SYNTHESIS OF PAPER FROM DRIED LEAVES
EE005	HARVESTING RAINWATER FOR SUSTAINABLE RINSING OF RECYCLABLES
EE007	EFFECTIVENESS OF COCONUT HUSK AS AN ADSORBENT FOR THE BIOREMEDIATION OF NI ²⁺ IONS FROM WATER
EE011	IMMOBILISATION OF ENZYMES FOR REMOVAL OF UV FILTERS IN WATER TREATMENT PLANTS
EE012	HOW THE PACKING ORIENTATION OF THE CONTENTS IN AN ECO BRICK AFFECTS THE STRENGTH OF THE ECO BRICK
EE015	EFFECTIVENESS OF CITRIC ACID (CA)-MODIFIED CELLULOSE ADSORBENT DERIVED FROM RAMBUTAN BIOCHAR FOR ADSORPTIVE REMOVAL OF PARACETAMOL AND TETRACYCLINE IN AQUEOUS SOLUTION

Project Code	Project Title
EE016	MICROALGAL DHA PRODUCTION THROUGH WASTE UTILISATION
EE020	INVESTIGATING THE EFFECTS OF PH IN THE REJECTION OF BORON IN REVERSE OSMOSIS FOR SEAWATER DESALINATION
EE023	COCONUT FIBRE AS AN EFFECTIVE AND REUSABLE BIOSORBENT FOR THE REMOVAL OF EDIBLE OIL FROM WATER
EE024	TACKLING PHARMACEUTICAL POLLUTION: JACKFRUIT DERIVED BIOCHAR-ALGINATE COMPOSITE HYDROGEL BEADS AS A NOVEL APPROACH FOR OFLOXACIN REMOVAL
EE026	ENVIRONMENTAL BIODEGRADATION OF PLASTIC PACKAGING MATERIALS
EE027	COMPARING PERFORMANCE OF MOLASSES TO DIFFERENT CARBON SOURCES FOR MICROALGAE CULTIVATION IN FOOD WASTE DIGESTATE FOR PHYCOBILIPROTEIN AND PROTEIN PRODUCTION
EE030	SYNTHESIS OF NOVEL AND SUSTAINABLE BIOSORBENTS FOR WATER PURIFICATION FROM BREAD WASTE
EE032	BIOACCUMULATION OF UV FILTERS IN COASTAL FOOD WEB
EE033	PHYTOREMEDIATION OF ZINC IN SUNFLOWERS
EE034	DEVELOPMENT OF AN ELECTROCHEMICAL REACTOR WITH AN IRON MODIFIED CATHODE FOR WASTEWATER TREATMENT THROUGH THE CONTINUOUS ADSORPTION AND ELECTRO-REGENERATION OF ACTIVATED CARBON
EE035	UPCYCLING OF SOILED DIAPERS BY ZOPHOBAS MORIO (SUPERWORMS) INTO AMMONIA AND FERTILISER PRODUCTS
EE040	OPTIMISATION OF CELLULOSE/SODIUM ALGINATE BASED HYDROGEL FOR EFFICIENT ADSORPTION OF COPPER(II) IONS FROM WATER
EE041	DEVELOPMENT OF HYDROGEL FOR THE PURIFICATION OF ZINC CONTAMINATED WASTEWATER
EE042	RECYCLING PLASTIC WASTE INTO 3D PRINTER FILAMENT
EE043	INTEGRATING SEA WALLS INTO OUR FUTURE
EE045	BIOPLASTICS: USING FRUITS TO CREATE BIODEGRADABLE FOODWARE
EE046	AN INVESTIGATION INTO THE EFFECTS OF USING FRUIT WASTE AS A SUBSTRATE ON THE VOLTAGE GENERATED BY A MICROBIAL FUEL CELL
EE049	DEGRADATION OF PET USING PLEUROTUS OSTREATUS UNDER DIFFERENT TEMPERATURE AND HUMIDITY
EE052	DETERMINATION OF PHOTOPROTECTIVE CAPABILITIES OF ANTHOCYANIN FOUND IN POMACE
EE053	STUDY OF ENHANCEMENT OF CHEMICAL AND PHYSICAL PROPERTIES INFLUENCING OIL ADSORPTION BY HUMAN HAIR
EE057	INVESTIGATING THE FEASIBILITY OF PRODUCING RECYCLED PAPER USING WASTE VEGETABLES
ES003	DEEP LEARNING BASED ALGORITHM FOR FREQUENCY ESTIMATION OF NOISY SIGNALS
ES004	WEARABLE TECH
ES005	BEYOND OMNIDIRECTIONALITY: INVESTIGATING THE DESIGN AND USE OF CIRCULAR ANTENNA ARRAYS
ES006	DISCOVERY OF WAVEGUIDE CROSSINGS VIA A NOVEL INVERSE DESIGN METHODOLOGY.
ES007	SURFACE PASSIVATION WITH AL ₂ O ₃ /SiN BILAYER IN ADVANCED GALLIUM NITRIDE HIGH ELECTRON MOBILITY TRANSISTORS (HEMTS)
ES009	MOTRIT-GPT: LLMS-BASED INTERACTIVE TOOL FOR MULTILAYER OPTICAL THIN-FILMS RESEARCH
ES013	ENHANCING JUDGEMENT ACCURACY IN TCHOUKBALL THROUGH REAL-TIME BALL DETECTION
ES014	STUDY OF DRIFT AND NOISE REMOVAL MODELS FOR SIGNAL PROCESSING AND ANALYSIS
ES015	IOT SYSTEM FOR EFFICIENT HYDROPONICS MAINTENANCE WITH ADAPTIVE RGB LIGHTING SYSTEM
ES017	DEEP LEARNING BASED ALGORITHM FOR FREQUENCY ESTIMATION FROM NOISY SIGNALS
ES018	WAVEFORM GENERATION WITH FPGA USING DIGITAL SIGNAL PROCESSING TECHNIQUES
ES019	INVESTIGATION ON 3D PRINTED MICROWAVE LENS FOR HORN ANTENNA
ES020	OPTICAL-BASED WIRELESS COMMUNICATION SYSTEM FOR ROBOTS USE OF NON-IOT-ENABLED LIFTS
ET003	DESIGN AND DEVELOPMENT OF DELTA WING WITH LOITERING CAPABILITY
ET005	DESIGN OF STRONGER AND MORE DURABLE LIMESTONE-CALCINED CLAY CEMENT (LC3) USING NANO-ADDITIVES
ET007	SMART CAR SHARING IN ON-DEMAND MOBILITY
ET010	SMART (SUSTAINABLE, MODULAR, ADDITIVELY-MANUFACTURED, ROBUST, TOWER-STYLE) URBAN FARMING
ET013	MODELLING THE FREQUENCY-COMPLIANCE DEPENDENCE IN MEMS RESONATORS
ET014	AERODYNAMIC DRAG AND STABILITY CHARACTERISATION OF A RIGID PARACHUTE
ET015	MODELLING OF PLASMA SHEATHS AND ION FLUX DISTORTION AT AN INSULATOR-CONDUCTOR INTERFACE
ET016	ELLIPTICAL VORTEX RINGS COLLISION UPON A FLAT WALL
ET017	ENGINEERING A LOW COST THERMAL VACUUM CHAMBER FOR CUBESATS BY UTILISING THERMOELECTRIC PLATES
ET018	REINVENTING THE FAST FOOD DUSTBIN-LIVING IN A POST COVID-19 WORLD
ET019	PIEZOELECTRIC-BASED DEFECT DETECTION METHODS FOR MATERIALS

Project Code	Project Title
ET023	VORTEX SURFING EFFECTS (POSITIONAL PARAMETERS) ON AERODYNAMIC PERFORMANCE AND STABILITY OF CONVENTIONAL AIRCRAFT IN FORMATION
ET024	INVESTIGATING THE EFFECTS OF THE ANGLE OF ATTACK OF THE REAR WING OF A SPORTS CAR ON ITS AERODYNAMIC PERFORMANCE
EY002	SIMULTANEOUS BIOREMEDIATION OF WASTEWATER AND GENERATION OF ELECTRICITY USING LACCASE ENZYME FROM TRAMETES VERSICOLOR
EY007	SYNERGISTIC COMBINATION OF $Sb_2Si_2Te_6$ ADDITIVES IN $Bi_{0.4}Sb_{1.6}Te_3$ FOR ENHANCED THERMOELECTRIC WASTE HEAT HARVESTING
EY008	SURFACE PLASMON RESONANCE (SPR) SENSOR FOR HYDROGEN LEAKAGE DETECTION
EY009	FABRICATION OF MULTIFUNCTIONAL COMPOSITE SUPERCAPACITORS FOR ELECTRICAL AERIAL VEHICLES
EY011	ANTHOCYANIN AND CHLOROPHYLLIN PHOTOSENSITIZERS WITH GREEN TEA EXTRACT SYNTHESIZED SILVER NANOPARTICLES ON DYE-SENSITIZED SOLAR CELL (DSSC) EFFICIENCY AS QUANTIFIED THROUGH OUTPUT VOLTAGE.
EY012	INVESTIGATING KOOLFEVER AS AN ALTERNATIVE HEAT SINK TO OPTIMISE THERMOELECTRIC TECHNOLOGY TO POWER WEARABLE DEVICES
EY013	COMPUTATIONAL ENERGY MODELLING FOR OPTIMISATION OF HVAC SYSTEMS IN SINGAPORE CLIMATE
EY014	HOW DOES CYANIDIN, OBTAINED THROUGH ANTHOCYANIN EXTRACT FROM ARONIA MELANOCARPA, WHEN EXPOSED TO DIFFERENT PH LEVELS (4,5,6,7,8,9໢) AFFECT ITS EFFICIENCY AS A DYE IN A DYE SENSITIZED SOLAR CELL?
EY015	INCREASING THE EFFICIENCY OF THE SAVONIUS TYPE TURBINE WITH A COMBINED DESIGN
EY016	DEVELOPMENT OF "GREEN" MICROBIAL FUEL CELL WITH IRON-BASED MEDIATOR
EY017	HIGH EFFICIENCY POLYMER SOLAR CELLS
EY020	PHASE CHANGING THE WORLD: USING BEESWAX-CORN OIL MIXTURES AS A PHASE CHANGE MATERIAL FOR INDOOR THERMAL REGULATION
EY021	INVESTIGATING THE EFFECT OF SOLVENT TYPE AND SOLVENT RATIO ON LIPID YIELD FROM CHAETOMORPHA LINUM USING SOLVENT EXTRACTION
EY022	SUSTAINABLE SYNTHESIS OF MIXED METAL MOFS CATALYSTS USING MECHANOCHEMISTRY
EY023	EFFECT OF MICROCRYSTALLINE CELLULOSE (MCC) FROM SUGARCANE ON THE TENSILE STRENGTH OF CORNSTARCH AND CARROT-BASED BIOPLASTIC
EY028	INVESTIGATION OF THE EFFECT OF NATURAL ELECTRON MEDIATORS ON THE PERFORMANCE OF MICROBIAL FUEL CELLS
MA001	FUELING THE CHALLENGE
MA002	INVESTIGATION OF THE FUNDAMENTAL FREQUENCY OF THE SPEAKING VOICES OF SINGAPOREAN ADOLESCENTS
MA005	TRISECTING TRIANGLES
MA010	NEW SIMPLE PASSWORD-AUTHENTICATED KEY EXCHANGE (SPAKE) FORMALISMS AND SECURITY PROOFS IN THE BELLARE-ROGAWAY GAME PLAYING MODEL
MA012	THE AUGMENTED BINARY TREE RECONSTRUCTION PROBLEM: NEW ALGORITHMS AND DIRECTIONS
MA013	A FIRST LOOK AT THE DECISIONAL WEIGHTED BALLS-INTO-BINS PROBLEM
MA014	PHYSICAL ACTIVITY AMONG YOUTHS
MA018	FOURIER SERIES REGRESSION AND STOCHASTIC OPTIMIZATION OF NOISY DISCRETE FUNCTIONS
MA019	MODELLING OF CARPARK ARRIVAL STATISTICS AND ITS IMPLICATIONS ON ELECTRONIC VEHICLE CHARGING
MA020	ELEGANT RESULTS INVOLVING CHEBYSHEV'S POLYNOMIALS
MA022	ALGEBRAIC SOLUTIONS TO EXTENSIONS OF APOLLONIUS' PROBLEM IN 3D
MA023	OPTIMIZING NATURAL NUMBER REPRESENTATION VIA PAN BALANCE MECHANISMS
MA028	EXPRESSING THE \sqrt{p} IN TERMS OF A SUM OF TRIGONOMETRIC FUNCTIONS
MA029	A GALTON BOARD'S EFFECTIVENESS IN PREDICTING WHERE FALLEN OBJECTS LAND IN WATER
MA030	DEVELOPING AN AUTOMATIC SYLLOGISM EVALUATOR
MA031	GENERALISING REFLECTION OF FUNCTIONS ABOUT LINES, CURVES AND SURFACES
MI001	YEAST-BASED HIGH-THROUGHPUT SCREENING OF PLASMODIUM FALCIPARUM PHOSPHODIESTERASE BETA (PDEB) FOR MALARIA DRUG DISCOVERY
MI002	EFFECTS OF PREBIOTICS ON LACTOBACILLUS
MI005	EFFECT OF CARBON SOURCES ON THE PRODUCTION AND PROPERTIES OF BIOCELLULOSE USING ACETOBACTER XYLINUM
MI008	CONCOCTING EFFECTIVE PHAGE COCKTAILS AGAINST ACINETOBACTER BAUMANNII FROM SINGAPORE'S SEWAGE
MI009	SYNTHESIS OF WOUND HEALING PRODUCT USING ANTIBACTERIAL & ANTIOXIDANT PEPTIDES EXTRACTED FROM TYPES OF EXPIRED MILK BY ENZYMATIC METHODS
MI010	ZNO NANO-SPIKY BALLS FOR ANTIFOULING: THE MORPHOLOGY DEPENDENT ANTIFOULING ACTIVITY OF ZNO NANOPARTICLES

Project Code	Project Title
MI011	MICROBIOME COMPOSITION OF BEEF, CHICKEN AND FISH REFRIGERATED FOR DIFFERENT DURATIONS AS ASSESSED BY 16S RIBOSOMAL RNA METAGENOMICS
MI012	INVESTIGATING NOVEL PHAGE RESISTANCE AND MUTATION IN MYCOBACTERIUM ABSCESSUS
MI015	INVESTIGATING THE PROTECTION AND EXCLUSION IN INCP PLASMIDS
MI017	BIOVALORISATION OF LEFTOVER RICE FOR DEVELOPMENT OF A PROBIOTIC FERMENTED BEVERAGE
MI019	NOVEL NEXT-GEN ENGINEERED PHAGE-PHOTOSENSITISERS: A GOLDEN OPPORTUNITY AGAINST MULTI-DRUG RESISTANT PSEUDOMONAS AERUGINOSA
MS001	LEAVING NO CRUMBS: LASER-ENABLED UPCYCLING OF SILICA IN RICE HUSK ASH FOR NOVEL APPLICATIONS IN CHEMICAL SENSING AND PHOTONIC CIRCUITRY
MS002	2D QUANTUM MATERIALS GROWTH, CHARACTERISATION AND ANALYSIS BY PYTHON PROGRAMMING
MS004	INVESTIGATING THE USE OF MUSHROOMS TO MAKE ANTIMICROBIAL HYDROGELS FOR PLASTERS
MS006	INK-R-EDIBLE CRICKETS: EFFECT OF AIR-FRYING TREATMENT ON THE PROPERTIES OF DIRECT INK WRITING 3D PRINTED CRICKET PRODUCTS
MS010	IMPACT OF VARIED CONCENTRATION OF NAOH ON WATER ABSORPTION OF AEROGEL
MS013	INVESTIGATING DIFFUSION OF AL ³⁺ IONS IN HYDROGEL FOR 3D PRINTING
MS015	INVESTIGATING THE EFFECTS OF SODIUM ALGINATE CONCENTRATION AND TAPIOCA FLOUR MASS ON HYDROGEL PROPERTIES AND ITS IMPLICATIONS FOR 3D FOOD PRINTING
MS016	MAGNETIC AND ELECTRICAL PROPERTIES OF NON-COLLINEAR ANTIFERROMAGNETIC MN-BASED THIN FILMS
MS017	IN-HOUSE PRODUCTION AND MODIFICATION OF BIOCELLULOSE
MS018	HAEMA-LIGHTS: LASER INITIATED SITE-SELECTIVE FORMATION OF AG-FE ₂ O ₃ COMPOSITES FOR ELECTRON DETECTION
MS020	UTILISING CHAOTROPIC HOFMEISTER IONIC EFFECT TO ACHIEVE HIGH PRECISION 3D PRINTING OF HIGH-CONTENT GELATIN BIO-INK
MS021	DEVELOPMENT OF INSECT PROTEIN FORMULATIONS FOR 3D PRINTING AND CASTING OF DYSPHAGIA-FRIENDLY FOOD PRODUCTS
MS024	INVESTIGATION ON EGGSHELL POWDER AS AN INORGANIC FILLER IN POLYETHYLENE COMPOSITES
MS025	COST-EFFECTIVE VISCOSITY INVESTIGATION OF 3D PRINTABLE FOOD INK USING VERTICAL FALLING BALL VISCOMETER
MS026	ADSORPTION BEHAVIOUR OF CATIONIC AND ANIONIC DYES BY BIOCHAR DERIVED FROM LONGAN PEELS
MS028	ENGINEERING PHASE TRANSFORMATION BEHAVIOUR IN THE 4D PRINTING OF NI-TI SHAPE MEMORY ALLOYS
MS030	PROCESSING THERMOSETS INTO REUSABLE THERMOPLASTICS BY HYDROLYTIC CONVERSION USING METHACRYLIC ANHYDRIDE AS A CLEAVABLE CROSSLINKER
MS034	INVESTIGATING TANNIN AND GELATIN MULTILAYERS AND MICROCAPSULES
MS035	MULTINERY METAL CHALCOGENIDE NANOSTRUCTURES FOR THERMOELECTRIC APPLICATIONS
MS036	3D FOOD PRINTING FOR SUSTAINABILITY
MS038	DIFFERENTIAL SYNTHESIS AND PERFORMANCE EVALUATION OF METAL CHALCOGENIDES FOR ENERGY APPLICATIONS
MS043	POWER SUPPLY SYSTEM FOR SMART CONTACT LENS
MS053	DESIGN OF STRONGER AND MORE SUSTAINABLE CONSTRUCTION MATERIALS WITH THE ADDITION OF GRAPHENE NANO-ADDITIVES
MS055	SYNTHESIS OF ER, LA, YB-DOPED ZINC OXIDE THIN FILMS WITH UPCONVERSION PROPERTIES FOR ENERGY-SAVING SMART WINDOW APPLICATIONS
MS058	CONVERTING FOOD WASTE INTO WOOD PASTE FOR ADDITIVE AND SUBTRACTIVE MANUFACTURING
MS060	EXTRACTION OF CELLULOSE FROM DRAGON FRUIT PEEL
MS061	INVESTIGATION OF PROTEIN CRYSTALLISATION USING PRECISION ELLIPSOMETRY
MS062	EXPLORATION OF THE ELECTRONIC STRUCTURE MODIFICATION IN LANTHANUM CHROMITE INDUCED BY V DOPING: A FIRST-PRINCIPLES STUDY
MS063	PROVIDING A MORE SUSTAINABLE ALTERNATIVE TO NYLON FISHING NETS FOR FISHERMEN
MS064	MAGNETO-IMPEDANCE SPECTROSCOPY OF LIQUIDS AND GELS
MS065	ZAPRESSO: COFFEE GROUNDS FOR A SUSTAINABLE BATTERY ANODE
PH003	DESIGN OF FLAT LENS WITH PRINTED CIRCUIT BOARD (PCB) FABRICATION TECHNOLOGY
PH006	THE MECHANICS OF SWIRLING GRANULAR MATTER
PH011	ACOUSTIC ANALYSIS OF THE PITCH AND TIMBRE OF THE SOUND PRODUCED BY A SIREN DISK
PH013	TUNING THE PHASE TRANSITION CHARACTERISTICS OF VO ₂ VIA ION IRRADIATION
PH015	DIFFRACTION AND INTERFERENCE OF LIGHT IN OPTICAL DISCS UNDER A FILAMENT LAMP
PH017	EXPLORING QUANTUM DYNAMICS: FINE CONTROL OF SUPERCONDUCTING QUBITS
PH019	MODAL FREQUENCIES IN A NONLINEAR BEAM-MAGNET COUPLED OSCILLATOR SYSTEM

Project Code	Project Title
PH020	COMPREHENSIVE MODELLING AND DYNAMICAL ANALYSIS OF MAGNETIC BRAKING IN ROTATING CONDUCTIVE SPHERES FOR SPACE DEBRIS MITIGATION
PH021	EXPERIMENTAL ANALYSIS ON SHAPE OF A VISCOUS LIQUID FALLING THROUGH A RECTANGULAR ORIFICE
PH022	PRECESSION, NUTATION AND DYNAMIC TRAJECTORY OF A MAGNETIC ROD IN AN AXISYMMETRIC MAGNETIC FIELD
PH023	ROTATIONAL OSCILLATORS AND THEIR USE IN PRECISION ELLIPSOMETRY
PH024	PATTERNS OF FLOATING DROPLETS EXCITED WITH FARADAY WAVES
PH027	RADIOACTIVE DICE EXPERIMENT AND HALF-LIFE
PH028	PROPERTIES OF CYLINDRICAL MIRROR
PH030	ULTRASHORT HOLOGRAPHIC PROJECTION USING METASURFACE AND COLOR MIXING
PH032	DEVELOPMENT OF CONE PRISM CAMERA TECHNOLOGY
PH033	INVESTIGATING THE ACCURACY OF PHASE RETRIEVAL ALGORITHMS USING IMAGE REGISTRATION UNDER NOISY CONDITIONS
PH034	A COMPARISON BETWEEN THE LIGHT DISTRIBUTION ON CYLINDRICAL MIRRORS AND WAVE GUIDE
PH036	TRANSLATION OF VORTEX RINGS NEAR SOLID BOUNDARIES
PH039	INVESTIGATING CHARACTERISTICS OF MAGNETIC GEAR DYNAMICS UNDER SLIPPING AND CRITICAL TORQUE REGIMES
PH043	AUTOMATING THE DEVELOPMENT OF PLASMA SIMULATIONS VIA LANGUAGE MODELS
PH045	QUBIT DYNAMICS SIMULATION AND OPTIMAL CONTROL
PH046	MACHINE LEARNING OPTIMISATION IN A NOVEL HIGH NUMERICAL APERTURE QUANTUM INTERFEROMETER
PH047	COMPONENTS OF TEA ANALYSED BY PRECISION ELLIPSOMETRY
PH048	A TUNEABLE WAVEGUIDE REFLECTARRAY FOR RADIATION & SCATTERING EXPERIMENTS
PH051	DEVELOPING LIGHT SOURCE FOR ULTRA-HIGH SPEED PHOTOGRAPHY
PH052	OPTIMISED NUMERICAL METHODS FOR THE COMPUTATION OF PARTICLES IN FUSION HOTSPOTS AND PARTICLE INTERACTIONS IN MAGNETISED LINER INERTIAL FUSION (MAGLIF)
PS001	ROLE OF ERF 114 AND 115 TRANSCRIPTION FACTOR IN SALT TOLERANCE OF ARABIDOPSIS
PS009	MODIFYING SOIL TO DECREASE WATERLOGGING
PS016	IMPACTS OF FOOD WASTE-BASED FERTILISERS ON THE GROWTH OF GREEN BEAN PLANTS
PS019	INVESTIGATION OF THE EFFECTS OF VARYING WAVELENGTHS OF LIGHT ON THE GROWTH OF ORYZA SATIVA VIA HYDROPONIC FARMING
PS022	EFFECT OF DIFFERENT LED LIGHTS COLOUR COMBINATIONS ON B-CAROTENE CONTENT AND ANTIOXIDANT ACTIVITY OF RED SPINACH
PS023	ALGROW: A HOMEMADE SEAWEED-BASED BIOSTIMULANT
PS024	EFFECT OF FOLIAR APPLICATION OF CHELATED CALCIUM COMPOUNDS IN TREATING CALCIUM DEFICIENCY IN JERICHO LETTUCE
PS026	INVESTIGATION ON THE OPTIMAL LIGHT CONDITION FOR PLANT GROWTH AND ENERGY EFFICIENCY IN VERTICAL FARMING
PS029	DEVELOPING A FLOATING PLANTER FOR LOCAL PRODUCE AND WATER SECURITY
PS030	DETERMINING THE OSMOTIC STATUS OF THE SHOOT APICAL MERISTEM
PS033	EVALUATING THE FEASIBILITY OF AFFORDABLE ORCHIDACEAE TISSUE CULTURE USING HOUSEHOLD SPICES FOR MOULD INHIBITION
PS036	ANALYSIS OF DIFFERENTIALLY EXPRESSED GENES IN SAPOTACEAE RIPENING
PS037	INVESTIGATING THE EFFECT OF DIFFERENT CELLULOSE CONCENTRATIONS IN A HYDROGEL ON RATE OF PLANT GROWTH
PS038	INVESTIGATING THE EFFECTS OF COLOUR OF LIGHT ON THE GROWTH OF BROCCOLI AND KAILAN MICROGREENS
PS039	INVESTIGATION OF THE EFFECT OF HYDROCHAR, USING HYDROTHERMAL CARBONIZATION(HTC) ON THE ANTIOXIDANT AND BETA-CAROTENE CONTENT IN BROCCOLI AND RED SPINACH MICROGREENS
RO001	SORTING SENTIMENTS OF HOTEL REVIEWS THROUGH MACHINE LEARNING
RO002	DEVS: ZERO-SHOT AI-GENERATED TEXT DETECTION VIA SUMMARISATION
RO003	CAN LLMs HAVE A FEVER? INVESTIGATING THE EFFECTS OF TEMPERATURE ON LLM SECURITY
RO004	DEVELOPMENT OF AN INTELLIGENT SURGICAL TOOLS CHECKER USING IMAGE PROCESSING AND DEEP LEARNING
RO005	FINDING PATTERNS IN JOB ADVERTISEMENTS AND SKILL DESCRIPTIONS TO PERFORM MAPPING USING TEXT MINING ALGORITHMS
RO007	STATE SPACE MODELS ARE ALL YOU NEED
RO008	DEVELOPMENT OF A LOW-COST ROBUST AUTONOMOUS APPROACH TO MODERN CAMPUS SECURITY
RO009	DATA-DRIVEN FLOOD PREDICTION USING DRAIN CAPACITY FORECASTING: A SINGAPORE CASE STUDY
RO011	CHAT, IS THIS REAL? MM-DOUBLE CONFIRM! : A MULTIMODAL NETWORK FOR SINGAPORE-CONTEXT MISINFORMATION DETECTION

Project Code	Project Title
RO015	HYPERPARAMETER OPTIMISATION OF VISION TRANSFORMERS (VITS) TO IDENTIFY MALIGNANT COLORECTAL TUMOURS
RO019	EDMAL - ENHANCED DETECTION OF AI GENERATED TEXT USING MACHINE LEARNING
RO020	DETECTION OF HANDWRITTEN MATHEMATICAL EXPRESSIONS VIA DEEP LEARNING APPROACHES
RO021	EVALUATION OF DRONE DETECTION TECHNOLOGIES
RO022	CAN ARTIFICIAL INTELLIGENCE AUTOMATICALLY DETECT HUMAN ACTIVITY: APPLICATIONS IN BADMINTON.
RO025	DATA-DRIVEN DRONES: AN ANALYSIS OF LARGE LANGUAGE MODELS IN REINFORCEMENT LEARNING FOR DRONES
RO027	DEVELOPMENT OF A MACHINE LEARNING INTELLIGENT SYSTEM OF NYSTAGMUS DETECTION FOR PARKINSON'S DISEASE SCREENING
RO032	TRANSPOSABLE TREES - A NOVEL MACHINE LEARNING APPROACH FOR PREDICTING BIOLOGICAL RESPONSES OF NANOPARTICLES
RO033	CHRONOCROP: MONITORING CROP GROWTH USING A.I.
RO034	VISIONVOYAGE: A LOW-COST RELIABLE AI INTEGRATED SMART CANE
RO040	AN EXPLORATION OF MACHINE LEARNING AND REINFORCEMENT LEARNING FOR EMOTIONAL WELL-BEING
RO041	OPTIMISING SATELLITE-BASED QUANTUM COMMUNICATION: SINGAPORE CLOUD COVER ANALYSIS AND MACHINE LEARNING FORECASTING
RO044	ENHANCING MILD COGNITIVE IMPAIRMENT (MCI) DETECTION WITH DEEP LEARNING IN DIGITAL CLOCK DRAWING TESTS ON CONSUMER PLATFORMS
RO045	PERCHING MECHANISM FOR DRONES
SS003	ARTIFICIAL INTELLIGENCE FOR STUDENT'S SELF-DIRECTED LEARNING OF TITRATION EXPERIMENTS
SS005	WHAT'S UNDER THE HOOD? ROOT CAUSE AND PATCH ANALYSES OF ELEVATION OF PRIVILEGE VULNERABILITIES IN THE WINDOWS OPERATING SYSTEM
SS006	BEYOND PIXELS: ENHANCING IMAGE INPAINTING THROUGH MULTI-RESOLUTION PROCESSING WITH SELECTIVE SCALING AND ADVANCED BLENDING APPROACHES
SS007	NEW OPTIMAL ALGORITHMS FOR COMPUTING BINARY TREE OVERCOVERS IN RANGE SEARCHABLE ENCRYPTION
SS009	VOLUME-HIDING DICTIONARY ENCRYPTION: NEW SCHEMES AND BENCHMARKING RESULTS
SS013	INVESTIGATING THE USE OF A STYLOMETRY-BASED ALTERNATIVE TO DETECT AI-GENERATED &AMP;:AMP; AI-PARAPHRASED TEXT
SS014	DEVELOPMENT OF AN INTELLIGENT SYSTEM FOR MONITORING BIRDS' HEALTH IN THE NEW MANDAN BIRD PARK
SS017	INVESTIGATION OF PLANT HEALTH IN AGRITECH AND GREEN SPACES VIA IMAGE PROCESSING
SS018	MACHINE LEARNING TO EXTRACT PLASMA EMISSION SPECTRUM DATA FROM LASER FUSION IN METAL 3D PRINTERS
SS021	USING THE PARTICLE SWARM OPTIMISATION ALGORITHM FOR THE TRAVELLING SALESMAN PROBLEM & ITS APPLICATION IN ROUTING OPTIMISATION FOR E-WASTE COLLECTION
TM001	EX VIVO EXPANSION OF NON-MOBILISED PERIPHERAL BLOOD HEMATOPOIETIC STEM CELLS: A NOVEL PROTOCOL FOR THERAPEUTIC PURPOSES
TM004	INHIBITION OF GENE F1 IN MM CELLS USING ASOS: A POTENTIAL THERAPEUTIC STRATEGY
TM006	A STUDY OF ATTENTION IN ADOLESCENTS USING FUNCTIONAL NEAR INFRARED SPECTROSCOPY
TM010	EEG-BASED COMPARISON OF THE EFFECTS OF NON-SLEEP DEEP REST TECHNIQUES AND POWER NAPS ON COGNITIVE PERFORMANCE AND SUBJECTIVE WELL-BEING
TM011	NANOPARTICLE FORMULATION FOR INFLAMMATION CONTROL AND SKIN REGENERATION FOR ECZEMA TREATMENT
TM012	THE AGGREGATION BEHAVIOUR OF STAPHYLOCOCCUS AUREUS PHENOL-SOLUBLE MODULINS (PSMAS) IN DIFFERENT PHYSIOLOGICAL CONDITIONS: EXPLORING NOVEL AGENTS FOR MODULATING BIOFILM FORMATION
TM013	UTILISING THERMOSTABLE BINDERS FOR POINT-OF-CARE DETECTION OF AFRICAN SWINE FEVER VIRUS