



INTERNATIONAL INNOVATION ARSVOT MALAYSIA 2022

Theme:
Innovations In Digital World

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**INTERNATIONAL INNOVATION
ARSVOT MALAYSIA
(IAM2022)**

INTERNATIONAL INNOVATION ARSVOT MALAYSIA (IAM2022)

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2022

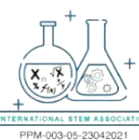
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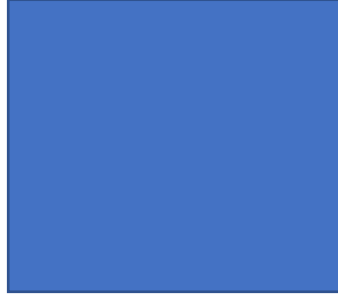
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P R E F A C E



Head of Programme
International Innovation ARSVOT Malaysia (IAM2022)
'Innovations in Digital World'

TABLE OF CONTENTS

- Preface
- Message & Welcome Address
- Committee Members
- Program Schedules
 - Workshops
 - Conference
- Officiator Speech
- Profile & Abstract Conference Speakers
 - Keynote Speaker 1
 - Keynote Speaker 2
 - Keynote Speaker 3
 - Keynote Speaker 4
 - Keynote Speaker 5
 - Keynote Speaker 6
 - Keynote Speaker 7
- Profile Workshop Speakers

INNOVATION COMPETITION LIST

| | |
|-------|--|
| IAM1 | Sistem Aduan dan Cadangan (SACAD) |
| IAM2 | ADJUSTABLE SHORING |
| IAM3 | KAD GANTUNG BERWARNA-KAEDAH MENGINGATI FAKTA SEJARAH DALAM KALANGAN PELAJAR SVM 2 ETE1 KVBP |
| IAM4 | Smart Compost Bin (SaCoB) |
| IAM5 | PLATFORM DISKRETSTEM SEBAGAI PLATFORM BAHAN SUMBER PDP STEM BAGI BIDANG PEMBELAJARAN MATEMATIK DISKRET |
| IAM6 | 3 In 1 Easy Pattern Manipulation |
| IAM7 | iSmartSafeKids -Social Distancing Application for School Kids |
| IAM8 | MySafetyChild -Child Detector in Vehicle Application |
| IAM9 | CONTROLLING A COOKING GAS VALVE (CCGV) USING SMARTPHONE |
| IAM10 | DISPOSAL OF RECYCLEABLE |
| IAM11 | Get Crack Box |
| IAM12 | SMART AGRICULTURE FARMING (SAFAR) |
| IAM13 | Room Attendant Intelligent Supervision (RAIS) |
| IAM14 | CIRCUIT ASSEMBLY AIDS |
| IAM15 | eSurat - Sistem Pengurusan Surat Dan Fail Kolej Vokasional Perdagangan |
| IAM16 | THERAPEUTIC FACE AND BODY SCRUB USING WASTES |
| IAM17 | PLATFORM DISKRETSTEM SEBAGAI PLATFORM BAHAN SUMBER PDP STEM BAGI BIDANG PEMBELAJARAN MATEMATIK DISKRET |
| IAM19 | Pemotong Bata (B-Li) |
| IAM20 | MOBILE APPS - MYXTVT |
| IAM21 | SEMI AUTO CURRY PUFF MACHINE |
| IAM22 | Inovasi TABIK Pulihara Sumber Kearifan Tempatan |
| IAM23 | Empowering Patients' Experience Through Shari'ah Compliant Model using PACSYS |
| IAM24 | Alert Drainage System |
| IAM25 | Augmented Reality-Based Encyclopedia of Halal Haram for Kids |
| IAM26 | Developing a Micro-credential Platform for Lifelong Learning: Sharia Financial Literacy |
| IAM27 | CS Pipe Mover |
| IAM29 | Automatic Machine for Kuih Ros Production |

| | |
|-------|---|
| IAM32 | To Reduce Kernel losses from 0.66% to 0.60% at Sua Betong Oil Mill, Negeri Sembilan, Malaysia |
| IAM34 | Roller Rack Automatic |
| IAM35 | E-Module of Heutagogy Learning Approach for Measuring Instruments Course, Electrical Technology Certificate Programme |
| IAM37 | NATSKIN-CURE & CARE |
| IAM38 | CHICHIMAU |
| IAM39 | TEACHING AND LEARNING OF RESEARCH METHOD THE FUN WAY BY USING #HASHTAGS IN FACEBOOK |
| IAM40 | e-DC |
| IAM42 | Application gamification in mathematic education |
| IAM43 | BROOM AUTOMATIC |
| IAM44 | AUTOMATIC FISH FEEDER |
| IAM45 | ROOMFINDER: APLIKASI TEMPAHAN ASRAMA MAHASISWA |
| IAM47 | TERAP SEMAI |
| IAM48 | T-SMART |
| IAM49 | APLIKASI PENGGUNAAN DIGITAL WATER IRRIGATION AND CONTROLLER DALAM SET SEMAIAN MEDIONIK BERTINGKAT |
| IAM50 | i-Smart Cleaner |
| IAM51 | CB-Cs |
| IAM53 | MULTIPURPOSE OF NATSPONGE FOR FILTERING SYSTEM |
| IAM54 | EASY LEARNING ADOBE PREMIER PRO (e-LAPre) |
| IAM55 | Apam Johol Serunding Ikan |
| IAM56 | APPLYING HYFLEX MODALITY WITH LIGHTBOARD INNOVATION IN TEACHING AND LEARNING |
| IAM58 | DEVELOPMENT OF MICROSOFT EXCEL FORMULATION FOR UNIT CONVERSION |
| IAM59 | Jackfruit Cheesetart |
| IAM60 | Phoenix Dactylifera Cookies |
| IAM61 | Onde-Onde Churros DIY Home Kit |
| IAM63 | Aplikasi "WareOpXtvtAR" (Inovasi dalam pengajaran dan pembelajaran berasaskan lakaran susunatur gudang). |
| IAM64 | Inovasi Sistem Penyulingan Mesra Alam |
| IAM65 | Taman Etnobotani Pintar |
| IAM69 | BASIC POCKET DIGITAL TRAINER |
| IAM70 | Smart Fire Alarm |
| IAM71 | MINDPHYEX – MOBILE APPLICATION FOR BODY AND MENTAL HEALTH |
| IAM76 | MOTORCYCLE ENGINE SERVICE STAND |
| IAM77 | TEMPLATE TITIK PULANG MODAL |
| IAM78 | CYCLO BAG |
| IAM79 | i-SOMER |
| IAM81 | Cyber Security Awareness Tracker (CySAT) |
| IAM82 | V-ARC - 21st Century Smart Library |
| IAM83 | My College Viu VR - 360 experience of Betong Vocational College |
| IAM84 | D.O.L Starter Learning Kit |
| IAM85 | Multifunction Woodwork |
| IAM86 | Portable Vise Stand |
| IAM87 | Nature approved skin food: Bio-sustainable Hylocereus polyzhiurus peel based anti-aging nano-formulation targeting stratum corneum. |
| IAM88 | Classroom Autonomous disinfection robot |
| IAM89 | LiVoc Brick |
| IAM90 | V2 SMART TUNGSTEN SHARPENER |

| | |
|--------|--|
| IAM91 | Innovation of a Mini S.O.S Transponder for Coastal Fishermen Using a Microcontroller Unit |
| IAM92 | Intelligent In Vehicle Alcohol Detection System (i-VADS) |
| IAM93 | Vertical Carousel System (Key Management) |
| IAM95 | Vehicle Alert System |
| IAM96 | SCI-POLY: LEARNING SCIENCE THROUGH GAMES |
| IAM97 | Switch On/Off using IFTTT (If This,That,Then) Apps |
| IAM99 | oPSTi Framework |
| IAM100 | EASY JACK MOVE |
| IAM102 | Mesin Pengasah Serbaguna |
| IAM104 | External Review Information System (ERIS) |
| IAM105 | We4u 2.0 |
| IAM106 | Hand Gestures in Controlling Games via Arduino Interface |
| IAM107 | Fingerprint Ignition Switch |
| IAM108 | Learn English with Augmented Reality; A Future Learning Trend |
| IAM109 | Islamic Bank's Intellectual Capital Benchmark Calculator |
| IAM110 | The Metabolic Town: Where Does It Go? |
| IAM115 | FLOOD WARNING DETECTOR (FWD) |
| IAM116 | SMART BELL CONTROL SYSTEM |
| IAM117 | KOTAK PENYIMPANAN BARANGAN KEMAS |
| IAM118 | SMART LAMP AUTOMATIC |
| IAM119 | RAK KASUT PINTAR |
| IAM120 | Lubricant Oil Changing Machine |
| IAM123 | ANTI CHILD TRAP SENSOR |
| IAM124 | Smart Farming Using IoT in a Smart Agriculture Monitoring System |
| IAM125 | Sintered Glass-Ceramic (SGC) Tiles from CRT Glass and Fly Ash Waste As An Alternative To Traditional Ceramic Tiles |
| IAM126 | PALAM SAMBUNGAN PINTAR DI ASRAMA SEKOLAH |
| IAM127 | PLYWOOD CARRIER |
| IAM128 | Multifuntcion Emergency Power Supply (MEPS) |
| IAM129 | Monitoring and Charging Electric Power Wheelchair Battery Consumption level via Internet of Things (IoT) |
| IAM130 | IComPBag - An Innovative Positioning Device |
| IAM131 | SISTEM KITARAN AIR MENGGUNAKAN KAWALAN PLC |
| IAM132 | Enhance Cybernetics Augmentation : Blood battery |
| IAM133 | AUTOMATIC PET FEEDER USING BLYNK |
| IAM134 | PENYIDAI AUTOMATIK |
| IAM135 | safety power window system |
| IAM136 | G2E- Generation 2 Extension |
| IAM137 | SISTEM PENGERING LANTAI |
| IAM138 | The Potential of Banana Fiber Waste as Biodegradable Tissue |
| IAM139 | Scoltech - Digital Scoliometer Device for Scoliosis Diagnosis |
| IAM140 | Sistem RP Move V1 |
| IAM141 | ANGLE TOOL HOLDER |
| IAM142 | Cendol Durian Belanda |
| IAM143 | Multifunctional Electronic Circuit Modular Kit with Augmented Reality (AR) Application |
| IAM144 | i-CAD Virtual Class |
| IAM145 | APPLICATION OF BIOTECHNOLOGY IN PROPAGATION OF BLACK TURMERIC |
| IAM146 | MULTIPURPOSE PLIER |
| IAM147 | MEMBANGUNKAN ALAT PENGUPAS, PEMOTONG DAN PENEBUK KELAPA (3 IN 1 COCOCUT) |
| IAM148 | AUTOMATIC CABLE CUTTING MACHINE |

| | |
|--------|--|
| IAM149 | DEVELOP A GAS LEAK DETECTION SYSTEM USING ARDUINO UNO, ALARM SYSTEM AND GSM |
| IAM150 | DEVELOPING A SMART COIN BOX PRODUCT USING AN ALARM AND MICROCONTROLLER CHIP ATMEGA AT328P |
| IAM151 | BEARING PULLER |
| IAM152 | SISTEM PENERIMAAN BUNGKUSAN AUTOMATIK |
| IAM153 | Smarthome Internet Of Things (SHIOT) |
| IAM154 | MEMBANGUNKAN ALAT TAMBAHAN UNTUK MENYOKONG BENDA KERJA PADA MESIN CANAI SILINDER DALAM KERJA PENCANAIAN |
| IAM155 | MESIN MEMPROSES BIJI KEKABU SEMI-AUTOMATIK |
| IAM156 | 3D Smart Module: A Solution for modelling and animation |
| IAM157 | Sustainable Recycle Ceramic Plastic Pallet For Moulding (SRCPP) |
| IAM159 | MESIN PENGHASILAN AIR MELALUI PROSES PEMELUWAPAN MENGGUNAKAN SISTEM PENYEJUKAN |
| IAM160 | SMART AUTOMATED POWER WINDOW |
| IAM161 | MENINGKATKAN KEMAHIRAN MEMBACA PERKATAAN BAHASA ARAB DENGAN MENGGUNAKAN TEKNIK SABBAR (SAMBUNG & BACA BAHASA ARAB) |
| IAM164 | SpOKU |
| IAM165 | Durio Crunch |
| IAM166 | FORMAL MATERNITY GARMENT |
| IAM167 | E-HADIR TABIKA KEMAS PERAJURIT |
| IAM168 | PEMBANGUNAN DIGITAL UNIVERSAL SPIRIT LEVEL |
| IAM170 | EasyForMeet |
| IAM171 | COVID 3D |
| IAM172 | BEBOLA BELUT FROZEN |
| IAM173 | Lime S'cream |
| IAM174 | IoT Based LPG Cylinder Smart Monitoring System |
| IAM175 | SoMic |
| IAM176 | Wasiat Wida' 2.0 |
| IAM178 | PETCHEM INTERPOLATION CALCULATOR |
| IAM179 | SMART SINK FOR COVID-19 PREVENTION |
| IAM180 | Pengering Kasut |
| IAM181 | CYCLING AURORA BOREALIS SAFETY SUIT |
| IAM182 | CHOCOLATE AVOCADO COOKIES |
| IAM183 | TANJAK GARMENT |
| IAM184 | ADVANCE RAINCOAT |
| IAM185 | AUTOMATIC CHICKEH FEED MACHINE (ACFM) |
| IAM186 | PLC TRAINING KIT |
| IAM188 | Security Smart Home Automation GSM Via Android |
| IAM190 | Electronic Agro Control System |
| IAM191 | AUTOMATED FERTIGATION SYSTEM |
| IAM192 | COPPER CUTTER HOLDER |
| IAM194 | Smart Tool Holder |
| IAM195 | Science Mobile App for STEM Secondary Education |
| IAM196 | Boutique Chatbot: Uniquely You |
| IAM197 | TRAVO THE SELANGOR TOURISM CHATBOT |
| IAM198 | Roadly Chatbot: Gives protection everyone on the road |
| IAM199 | Reka Bentuk Pembangunan Modul Algebra Berasaskan Strategi Penjanaan Masalah |
| IAM200 | SMART GRIND VALVE |
| IAM201 | TIRE LIFTER |
| IAM202 | PROJECT MoVAR |
| IAM203 | MySurprise Delivery Apps |
| IAM204 | KoShop |

| | |
|--------|---|
| IAM205 | The Rooms of Newton: Can You Escape? |
| IAM206 | EDUCOM BOARD GAMES REPOSITORY |
| IAM210 | MEREKA BENTUK pH MONITORING SYSTEM |
| IAM211 | v-PhyLabEx |
| IAM212 | SMART CAR CENTRAL LOCKING SYSTEM |
| IAM213 | Rain-Sensitive Retractable Clothes Hanger |
| IAM214 | An IoT Smart Box for Residential Purpose |
| IAM215 | Let's Follow Me: A Motion Copy-Paste System |
| IAM216 | THE EFFECTIVENESS OF CROMOLAENA ODORATA LEAF EXTRACT MODULE IN LEARNING CATFISH PRACTICE SPAWNING IN VOCASIONAL SCHOOL IN ACEH |
| IAM218 | REMOTE SENSING APPLICATION FOR SABAK BERNAMLANDUSE CHANGES MONITORING (2000 – 2020) |
| IAM219 | SMART-OPIC 1.0 |
| IAM220 | TEKNIK ONE PAGE 3P-PTA |
| IAM223 | PORTABLE ASL SYSTEM VISUALIZER USING RF SIGNALS AND IOT TECHNOLOGY |
| IAM224 | DESIGNING A SMART ELECTRICAL WIRING INSTALLATION SYSTEM FOR GUIDING VOCATIONAL STUDENT |
| IAM225 | Evo Fence |
| IAM226 | SISTEM E-MAKLUMBALAS PEJABAT SETIAUSAHA KERAJAAN PAHANG |
| IAM227 | Aplikasi telefon pintar untuk pembelajaran elemen dan prinsip reka bentuk dalam lakaran |
| IAM228 | TRACKALERT FILING SYSTEM (TAFS) |
| IAM229 | KIOSK INTERAKTIF |
| IAM230 | CDA (CHILD DETECTOR ALARM) |
| IAM231 | KESAN PEMBANGUNAN APLIKASI MUDAH ALIH BERASASKAN ANDROID BERTAJUK "MYWHEEL ALIGNMENT" TERHADAP PENCAPAIAN PELAJAR BAGI KURSUS TEKNOLOGI AUTOMOTIF DI KOLEJ VOKASIONAL |
| IAM232 | PENAHAN RAHANG RAGUM GERUDI |
| IAM233 | SMART FAN SYSTEM |
| IAM234 | ALAT PENGESAN GAS EKZOS |
| IAM235 | Mini Air Cooled System |
| IAM236 | Pembangunan Alat Bantu mengajar 'Smart Postbox' untuk Pembelajaran Berasaskan Masalah bagi Topik Sistem Elektronik dalam Subjek Reka Cipta Tingkatan 5 |
| IAM238 | PORTABLE CYLINDRICAL GRINDING JIG |
| IAM239 | DARE |
| IAM240 | SMART CITY |
| IAM241 | VEHICLE BATTERY SOLAR CHARGER |
| IAM242 | SIMULASI TRANSMISI AUTOMATIK KENDERAAN MENGGUNAKAN POWERPOINT INTERAKTIF |
| IAM243 | MySAFE LANGKAWI - Certificate of Compliance COVID-19 SOP and Travel Quality Best Practices |
| IAM245 | REKABENTUK FACESHIELDS UNTUK FRONT LINER |
| IAM246 | DRIED CHILI SEEDS SEPERATOR |
| IAM249 | IoT Based Mobile Robot Pesticide Sprayer |
| IAM250 | HOME FIRE ALARM |
| IAM251 | Compact Tools |
| IAM252 | Ecofriendly Edible Wrapping |
| IAM253 | EASY MOTOR CONTROL TRAINING KIT |
| IAM254 | PORTABLE SOLAR POWER STATION |

| | |
|--------|---|
| IAM255 | Smart Automation Gate by Android System and Solar |
| IAM256 | PHYSOC CHATBOT 2.0 |
| IAM258 | Injector Cleaner |
| IAM259 | IoT-Based Data Storage Monitoring System for Home Mini Hydro Power Generator |
| IAM260 | Public Indoor Smart Bin |
| IAM261 | MANGOSTANO STICKS |
| IAM262 | AUTOMATIC CHICK BROODER(ACB) |
| IAM263 | KVK Corn Threshing Machine |
| IAM265 | Portable Cooling Treatment V2 |
| IAM266 | Elimination of Passive Learning in Essay-based Assessments Using the AEM Model |
| IAM267 | COVID-19 QUARANTINE MANAGEMENT SYSTEM (CQMS) |
| IAM268 | OCCUPATIONAL HEARING CONSERVATION INDEX SYSTEM (OHCI) |
| IAM269 | INTERACTIVE VISUAL INSTRUCTION MANUAL (IVIM) |
| IAM270 | DURIOS CRACKER |
| IAM271 | Engtranss Mobile Simulator |
| IAM272 | Electric Manager System (EMS) |
| IAM273 | Automatic Dustbin |
| IAM274 | Energy Saving and Counting System (ESCS) |
| IAM275 | FLIGHT NAVIGATION AND OBSTACLE AVOIDANCE SYSTEM FOR SMALL SCALE UNMANNED AERIAL VEHICLE |
| IAM276 | Automatic Feeding Machine |
| IAM277 | ECO FRIENDLY COVER DRAIN |
| IAM278 | LOW COST PROSTHETIC HAND(PLASTECH) |
| IAM279 | E-PTA KIT |
| IAM280 | SMART BLIND STICK |
| IAM281 | SMART WATERING PLANT |
| IAM282 | PORTABLE SMART FLEXIBLE JIG |
| IAM284 | T-R BOARD V.2 |
| IAM286 | THE RECYCLE4U |
| IAM288 | Sambal Kering Empulur Nanas |
| IAM290 | Interactive Smart Product Design for Office Usage |
| IAM291 | Neil - Smart Health Bone Conduction Product Design |
| IAM292 | Pembelajaran Berasaskan Komuniti Dalam Kursus Fashion Showcase Di Kolej Vokasional |
| IAM293 | ALAT BANTUAN MENGAJAR (ABM) SISTEM SALUR UDARA |
| IAM296 | EGG INCUBATOR MONITORING SYSTEM |
| IAM299 | LOCU : Local Culture Expertise |
| IAM300 | PEMBENGGOK PAIP PVC MUDAH ALIH |
| IAM302 | Daily Routine Finance Management Apps Design |
| IAM303 | The Usage of Virtual Reality in Brings Out The Awareness of Vaccine Hesitancy. |
| IAM304 | MG MACHINE |
| IAM305 | MOTORIZED ELECTRIC JACK |
| IAM306 | Sistem Keselamatan Anti Penceroboh Rumah Menggunakan Notifikasi Khidmat Pesanan Ringkas (SMS) |
| IAM307 | SISTEM PEMELIHARAAN IKAN LAGA |
| IAM308 | CARBONANA SNACK |
| IAM311 | WIRELESS INFOBOARD |
| IAM312 | RELS - RFID Equipment Lending System |
| IAM313 | Sistem Penggera Kebakaran Berprinsipkan Internet of Things (IoT) |
| IAM315 | HYFA1 PEMBELAJARAN INTERAKTIF MERENTASI KOKURIKULUM |
| IAM316 | Smart Patient Information Registration System (SPIRS) using IoT |

| | |
|--------|---|
| IAM317 | SMART DOOR LOCK SYSTEM |
| IAM320 | XMUM Table |
| IAM323 | The Appropriate Technological Innovation Mulch Hole Tool to Increase the Productivity of Chilian Farmer |
| IAM325 | Langkawibook : A locality-oriented tourism distribution system on island |
| IAM326 | TS - BOARD (Table Setting Board) |
| IAM328 | ALLERS-3 |
| IAM329 | Carrot Citrouille |
| IAM330 | ELECTRICAL LIGHTING KIT |
| IAM331 | Electric Motor Vehicles: Technology Capable of Charging when Braking to Save and Reduce the Reduce the Used Fossil Fuel |
| IAM332 | COOLING PELTIER BOX SYSTEM |
| IAM333 | PORTABLE SOLAR SMART BOX |
| IAM334 | Smart KIDIS |
| IAM335 | RAPID DETECTION TOOL USING DIGITAL APPROACH |
| IAM336 | Augmented Reality Practical Notes For Balik Pulau Vocational College |
| IAM337 | EDUCATION BOARD FOR TESTING AND TROUBLESHOOT WIRING |
| IAM338 | PINK WITH ME TIME MANAGEMENT APP DESIGN |
| IAM339 | SAVE SMART SAW (3S) |
| IAM340 | THE PUTATAN SCOUTS APPLICATION |
| IAM341 | SISTEM PENGECAMAN MUKA BAGI KEHADIRAN KULIAH |
| IAM342 | BOUBA APLIKASI MOBIL BORANG UKURAN BADAN |
| IAM343 | Virtual Ordering System (VOS) |
| IAM344 | Innovation of MyPS: Mobile Application Software For School Public Speaking |
| IAM345 | PENGHASILAN PRODUK SUP BARLI SEGERA |
| IAM346 | MUSEUM2GO |
| IAM347 | TATOMA |
| IAM348 | COLOURFUL E-GSHECELL |
| IAM349 | INTERN2WORKFORCE SCORECARD |
| IAM350 | SLINGDUH |
| IAM351 | GRINDING VALVE MACHINE |
| IAM352 | DESCRIBING THINGS -STUDENT WORKBOOK FOR INTERMEDIATE |
| IAM353 | A Qualitative Exploration Of Expert Perspective On GeBoMe to Aid In The Teaching of 3D Shapes |
| IAM354 | SMART DISTRIBUTOR BOARD (DB) |
| IAM355 | Amalan Bimbingan Melalui Kaedah Speed Up Meningkatkan Kualiti Pemimpin Pertengahan |
| IAM357 | SISTEM TALI PINGGANG KERETA MENGGUNAKAN ARDUINO MEGA |
| IAM358 | Alat Amaran Banjir (LARI) |
| IAM359 | SMART SANDING VALVE (SSV) |
| IAM361 | A remote automated radiopharmaceutical dispenser system |
| IAM362 | BSAS-HV (Blind Spot Alert System for Heavy Vehicle) |
| IAM363 | Tungsten carbide polymeric brick as gamma radiation shielding |

CONFERENCES LIST

| | |
|-------|--|
| CIAM1 | A Survey on Problems of Dyscalculia in Primary Schools |
| CIAM2 | KESESUAIAN DAN KEBERKESANAN PENGGUNAAN TEKNIK 3P-PTA DALAM PENGHASILAN PROJEK TAHUN AKHIR |
| CIAM3 | CABARAN PENSYARAH KOLEJ KOMUNITI BEAUFORT DALAM MELAKSANAKAN PROSES BEKERJA DARI RUMAH (BDR) SEPANJANG PERINTAH KAWALAN PERGERAKAN |
| CIAM4 | Suitability of Web Development Technology Course in TVET Tertiary Educators' Perspective |

| | |
|--------|---|
| CIAM5 | PENGARUH MINAT KEUSAHAWANAN TERHADAP PRESTASI AKADEMIK PELAJAR: KAJIAN KE ATAS PELAJAR KOLEJ KOMUNITI BEAUFORT SABAH |
| CIAM6 | Instagram as a Marketing Tool in Higher Education Institutions |
| CIAM7 | tes |
| | Instagram as a Marketing Tool in Higher Education Institutions |
| CIAM9 | |
| CIAM10 | DEVELOPMENT OF CEMENT PASTE WITH COMPOSITE OF CORN HUSK ASH |
| CIAM11 | Faktor-Faktor |
| CIAM12 | APPLICATION OF FUZZY DELPHI METHOD (FDM) IN DEVELOPMENT OF THE HEUTAGOGICAL AND TECHNOLOGICAL PRACTICES IN NEXT GENERATION LEARNING SPACES (NGLS) FRAMEWORK |
| CIAM13 | KESAN PEMBELAJARAN BERASASKAN PROJEK TERHADAP MOTIVASI PEMBELAJARAN BAHASA MANDARIN |
| CIAM14 | The Effectiveness of Learning Active and Passive Voice through Game Application 'Oh, My Tenses!' |
| CIAM15 | THE DEVELOPMENT OF VOCATIONAL TAXONOMY: THE APPLICATION OF DELPHI TECHNIQUE |
| CIAM16 | Review on Education and learning mathematical skills Based on Mobile application and for children with autism spectrum disorders |
| CIAM17 | RICE BRAN AND PALM BASED OIL POTENTIAL TO SUBSTITUTE TRANSFORMER INSULATION OIL |
| CIAM18 | IC |
| CIAM19 | The Development of Intelligent Solid Waste Trap Machine Using Arduino |
| CIAM20 | Aplikasi "WareOpXtvtAR" (Inovasi dalam pengajaran dan pembelajaran berasaskan lakaran susun atur gudang) |
| CIAM21 | COVID -19 : CABARAN PERLAKSANAAN PDPT PENSYARAH PROGRAM SIJIL SISTEM KOMPUTER DAN RANGKAIAN (SSK) DI SELURUH KOLEJ KOMUNITI |
| CIAM22 | Integrating the Concept of Industry 4.0 by Teaching Methodology in Product Design Education |
| CIAM23 | DESIGN AND ANALYZE OF 15NM BLDC MOTOR FOR ELECTRIC BICYCLE APPLICATION |
| CIAM24 | IOT PARALYSIS PATIENT HEALTH CARE |
| CIAM25 | Students' Perception of Using Virtual Reality (VR) Technology in TVET |
| CIAM26 | PEMBANGUNAN DUA KELUARAN VOLTMETER MENGGUNAKAN PENGAWAL MIKRO ESP32 DAN PAPARAN PELAYAR WEB |
| CIAM27 | THE BOLTED TIMBER CONNECTIONS; BEARING SHEAR FAILURE WITH EUROPEAN YIELD MODEL (EYM) |
| CIAM28 | KAJIAN KEBERKESANAN PROGRAM SERVIS KENDERAAN RINGAN KOLEJ KOMUNITI BANDAR BAHARU TERHADAP INDUSTRI AUTOMOTIF |
| CIAM29 | COVID-19: How Did Arts Students "Perform" Psychologically in Online Learning? |
| CIAM30 | Application of seaweed (<i>Eucheuma Cottonii</i>) extract and shrimp waste as biofertiliser for Mustard (<i>Brassica juncea</i> L.) |
| CIAM31 | IMPAK PENDEKATAN PEMBELAJARAN FLIPPED CLASSROOM TERHADAP TAHAP MOTIVASI |
| CIAM32 | The Development of Mobile Phone Security Application using Encryption and Decryption |
| CIAM33 | Job Shop Scheduling with Respect to Machine Speed and Energy Consumption |
| CIAM34 | HEARING IMPAIRED STUDENT ACHIEVEMENT USING 'TREASURE OF FAMOUS FOOD (ToFF)' GAME BOARD AS TEACHING AID AT |

| | |
|--------|--|
| | POLYTECHNIC MALAYSIA: A CASE STUDY IN POLITEKNIK TUANKU SYED SIRAJUDDIN, PERLIS |
| CIAM35 | STUDENTS' PERCEPTIONS OF THE USE OF QUIZZZ APPLICATIONS FOR ENGINEERING MATHEMATICS 2 IN POLITEKNIK UNGKU OMAR |
| CIAM36 | Multi-objective job-shop scheduling with Unequal-Size lot-splitting production |
| CIAM37 | KESESUAIAN EBOOK NUMERICAL METHOD SEBAGAI BAHAN PEMBELAJARAN PELAJAR POLITEKNIK |
| CIAM38 | IMPACT OF SOLAR PANEL ORIENTATION |
| CIAM39 | Pembangunan Inovasi COVID-19 Quarantine Management System (CQMS) Bagi Mengurus dan Mengawal Penularan Dalam Gelembung Operasi Selamat Pendidikan Di Malaysia. |
| CIAM40 | EFFECTIVENESS OF A NOVEL INDEX SYSTEM AS A SUSTAINABLE APPROACH TO PREVENT NOISE-INDUCED HEARING LOSS DISEASE IN MALAYSIA |
| CIAM41 | WOODEN LAPTOP CASE |
| CIAM42 | Flexible flow shop scheduling with Deteriorating Maintenance under Time-of-use |
| CIAM43 | T-R BOARD V.2 |
| CIAM44 | Impak Media Ke Atas Budaya Dalam Kalangan Remaja di Bangi: Kajian Ke Atas Kesan Pemaparan Rancangan Hiburan Running Man di Malaysia. |
| CIAM45 | THE INFLUENCE OF STUDENTS' KNOWLEDGE AND ATTITUDE ON MOTIVATION IN THE USE OF HOTEL OPERATION e-MODULE |
| CIAM46 | Effect of Ambient Scents without Emotion Interference on the Home Accessories Perceived Price |
| CIAM47 | The Combination of PowToon Software and Multimedia Learning Theory as Lecturing Tool for Industrial Design Programme in Higher Education |
| CIAM48 | KAJIAN TERHADAP PENGGUNAAN MICROSOFT EXCEL MEMBANTU MENINGKATKAN KEFAHAMAN PELAJAR DALAM INVERSE MATRIX (DBM10013) DI POLISAS |
| CIAM49 | SPIN THE CIRCLE (SeE) |
| CIAM50 | PEMBANGUNAN APLIKASI PENGAKAP PUTATAN |
| CIAM51 | SCISARROW |
| CIAM52 | Improving Problem Solving Skills Using Critical Thinking Learning Strategy in Integral Calculus |
| CIAM53 | AUGMENTED REALITY APPLICATION: AN APPROACHES TO ENHANCE STUDENTS MOTIVATION IN LEARNING PC ASSEMBLY |
| CIAM54 | Testing link |
| CIAM55 | SUGARCANE BAGGASE WATER FILTER |
| CIAM56 | KAJIAN PENGGUNAAN SISTEM QR DATA COLLECTOR BAGI PERALATAN BENGKEL DAN MAKMAL |
| CIAM57 | EVOLUTION FENCE |
| CIAM58 | ANALISIS MAKLUM BALAS INDUSTRI DAN INSTITUSI BAGI PELAJAR SIJIL KEMAHIRAN REKA BENTUK GRAFIK OKU MASALAH PENDENGARAN POLITEKNIK IBRAHIM SULTAN MENGGUNAKAN APLIKASI WEKA |
| CIAM59 | Job Interview Practice in Virtual Reality: The Malaysian Polytechnic Student Experience |
| CIAM60 | Kajian Pembangunan dan Penggunaan 'Fire Extinguisher Auto Reading System'. |
| CIAM61 | Social Media as Learning Tools in ESL Classroom: A Case Study of Malaysian TVET Institution |
| CIAM62 | Development of Applications (Apps) for subject Entrepreneurship in Polytechnic Malaysia. |

MESSAGE & WELCOME ADDRESS



Ts. Dr. ZULKIFLI BIN MOHD SIDI, A. M. N.

Assalamulakum w. b. t. and Salam Sejahtera
Bismillahirrahmanirrahim,

Dear all participants & colleagues!

I am Pray for our safety & good health. On behalf of the Association for Researcher of Skills & Vocational Training (ARSVOT), I would like to express our deepest gratitude to all honoured participants and distinguished delegates to International Innovation ARSVOT Malaysia 2022 (IAM2022). Very deep appreciation goes to YB. Datuk Hj. Awang Hashim, Deputy Minister of Human Resources Ministry for officiated this international innovation & conference event.

Thank you also goes to all keynote speakers Deputy Director General of Skills Development Malaysia (DSD), YBr. Ts. Dr. Mohamad Sulaiman; Director of SEAMEO Regional Centre for Special Educational Needs (SEAMEO SEN) of Malaysia, YBr. Dr. Hjh. Hanani Harun Rasit; Head of Corporate Industrial Services and Employability Centre, Nilai Polytechnic Ministry of Higher Education, YBr. Dr. Isdawati Ismail; General Director of Institute of Metallurgy & Ore Beneficiation, Satbayev University Almaty, Kazakhstan, Prof. Dr. Bagdaulet Kenzhaliyev; Deputy Director of Youth Skills Development Division, Ministry of Youth & Sport, YBr. Ts. Dr. Azmi Ahmad; Director Centre for Continuing Education & Professional Development (CEPD), University of Technology Sarawak (UTS), YBr. Assoc. Prof. Ts. Dr. Ramli Rashidi; and Director of UPM Press, Universiti Putra Malaysia (UPM), YBr. Prof. Ir. Ts. Dr. Mohamed Thariq Hj. Hameed Sultan supported this great event.

The inaugural ARSVOT and Department of Skills Development (DSD) in co-organisation highlighted the Accredited Centre (AC) and other TVET training institutions increased sustainability internationally. IAM2022 provides an opportunity for trainees, students, trainers, researchers and academicians to share their experiences in different schools of thought especially in the TVET sector. The conference provides us an opportunity to exchange ideas thru virtual environment by establishing networking the Innovation of Digital World.

The ARSVOT, do not want to be left out to assist in strengthening the quality of TVET sector training and higher education activities. We also have made joint for strategic industry partnerships in vocational training and education to be more creative and innovative. Therefore, we also welcome cooperation between national and foreign institutions through TVET sector umbrella strategic partnership in contributing efforts to enhancing knowledge and vocational skills. The quality helps to improve the image of public and private skills institutions and educational institutions in the world class stage.

Thank you very much. Assalamulaikum w. b. t.

Ts. Dr. ZULKIFLI BIN MOHD SIDI, A. M. N.

Chairman

Association for Researcher of Skills and Vocational Training (ARSVOT), Malaysia

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PROGRAM SCHEDULES

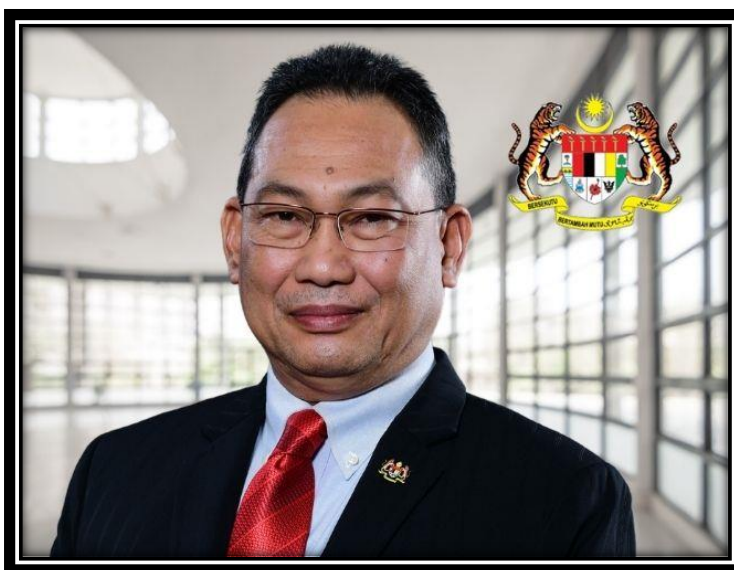
DAY 1

| 25 th June 2022 | |
|----------------------------|---|
| Time | Program |
| 09:30 am | Final Presentation of Innovation Competition (This slot determines the platinum award for innovation competition) |
| 10:30 am | Workshop 1: Dr. Rahimah Jamaluddin Workshop on Innovation in Teaching and Learning (PdP) |
| 12:30 am | Queries and Answers Session |
| 01:00 pm | Break |
| 02:30 pm | Workshop 2: Dr. Adnan Omar Workshop on Mental Health Management in the 21st Century |
| 04:30 pm | Queries and Answers Session |
| 05:00 pm | End |

DAY 2

| 26 th June 2022 | |
|----------------------------|---|
| Time | Program |
| 08:00 am | Online Registration of Participants & Presenters |
| 08:30 am | <p>Opening Ceremony and Video Montage</p> <p>Officiated IAM2022: YB. Datuk Hj. Awang Bin Hashim Deputy Minister of Human Resources, Ministry of Human Resources, Malaysia</p> |
| 09:00 am | <p>Keynote Speech 1: YBrs. Ts. Dr. Mohamad bin Sulaiman Deputy Director General (Development), Department of Skills Development, Ministry of Human Resources, Malaysia</p> |
| 09:20 am | <p>Keynote Speech 2: Dr. Hajah Hanani Harun Rasit Director of SEAMEO Regional Centre for Special Educational Needs (SEAMEO SEN), Malaysia</p> |
| 09:40 am | <p>Keynote Speech 3: Dr. Isdawati Ismail Head of Corporate Industrial Services and Employability Center, Nilai Polytechnic, Ministry of Higher Education, Malaysia</p> |
| 10:00 am | Queries and Answers Session |
| 10:30 am | <p>Keynote Speech 4: Prof. Dr. Bagdaulet Kenzhaliyev General Director of Institute of Metallurgy and Ore Beneficiation, Satbayev University, Almaty, Kazakhstan</p> |
| 10:50 am | <p>Keynote Speech 5: Ir. Ts. Dr. Azmi Ahmad Deputy Director of Youth Skills Development Division, Ministry of Youth and Sports, Malaysia</p> |
| 11:10 am | <p>Keynote Speech 6: Assoc. Prof. Ts. Dr. Ramli Rashidi, K. M. N., P. B. S. Director of CEPD, University of Technology Sarawak, Malaysia</p> |
| 11:30 am | <p>Keynote Speech 7: Prof. Ir. Ts. Dr. Mohamed Thariq Haji Hameed Sultan Director of UPM Press, Universiti Putra Malaysia, Malaysia</p> |
| 11:50 am | Queries and Answers Session |
| 12:20 am | Announcement of Platinum Award for IAM2022 and Closing Ceremony |
| 12:50 am | End |

OFFICIATE SPEECH



YBrs. DATUK HJ. AWANG BIN HASHIM

Bismillahirrahmanirrahim.

Assalamualaikum and a very good morning

First and foremost, I would like to express my deepest gratitude for inviting me to officiate the opening ceremony of the International Innovation ARSVOT Malaysia (IAM2022). It gives me a great pleasure to welcome each and everyone of you here today mainly representatives from agencies and Multinational Corporations, resource persons, members of academia and experts and also everyone involved in this event. Together, we can maximize the benefits of strategic networking, knowledge sharing and experiences to nurture and develop innovation in line with the IAM2022's theme as well as discover and utilize new opportunities aligned to promote innovations in digital world. Not to forget, I would like to extend my heartfelt congratulations to IAM2022 secretariat for organizing the second edition of International Innovation ARSVOT Malaysia.

Ladies and gentlemen,

COVID-19 has indeed challenged us further and given us a wake-up call. On top of combating and monitoring cases, every nation in the world are forced to re-assess all that have been done and are to be done. And though COVID-19 has brought us much challenges and pain, it has, at the same time, brought us all together to think on what's best for everyone and what we can contribute for the future of our next generation. IAM2022 is an exhibition that highlights innovation in teaching and learning, innovative products and a medium to share expertise in design for humanities. It consists of three main events which are innovation competition, conference and workshop. Hence, this is the best platform for everyone to get online exposure since we are amid the COVID-19 pandemic. I am very sure that this event will aspire everyone especially students, teachers, lecturers, researchers, and inventors from all countries involved to exchange their great ideas and knowledge together.

Ladies and gentlemen,

In conjunction with the International Innovation ARSVOT Malaysia (IAM2022), this innovation competition, conference and workshop is the right time to share on the related issues on innovations in digital world. Developing an innovation is important to establish a sustainable community, to develop human resources and increasing competitiveness in the future. Therefore, this conference aims to promote enhanced people-to-people involvement by giving the representatives an avenue to share ideas and expertise in the field of innovation. We need to develop a common understanding on the roles of various stakeholders, sharing of experiences to integrate innovation related to humanities for the future.

Ladies and gentlemen,

We are delighted to have all of you here today, particularly to all Country representatives, participants, and experts. I certainly hope to see that we can work hand in hand during this event to participate in exchanging and sharing ideas and knowledge.

This event can be a platform to promote the importance of innovation and to address any issues related such as:

- How will be the transition of innovation could address the humanities issues?;
- The factors that stimulate innovation entrepreneurship;
- Contribution of innovation to the Fourth Industrial Revolution (IR4.0);
- Roles of education, TVET and skills training institution in nurturing innovations and creativity in educational and skills practice; and
- Science, Technology, Engineering and Mathematics (STEM) Skills in Innovation and Design.

This conference can provide a good opportunity to discuss the enhancement of our co-operation within country involved. I am sure we will be able to achieve a better future and promote innovation if we continue to foster good cooperation among us.

Ladies and gentlemen,

I am pleased to announce that total of more than 1000 participants already registered in this event which are consists of three categories: Innovation Competition, Conference and Workshop. Congratulation to all IAM2022 participants.

In closing, I wish to express my gratitude to all participants and representatives for their full involvement and contribution to the International Innovation ARSVOT Malaysia (IAM2022). I take this opportunity to thank the organizers the Department of Skills Development, Ministry of Human Resources, Association for Researcher of Skills and Vocational Training (ARSVOT) Malaysia and also all co-organizers (Uniglobal Education Academy Malaysia; Consortium of Malaysian Universities (CMU); SEAMEO Regional Centre for Special Educational Needs (SEAMEO SEN), Malaysia; International STEM Association; MAS Giresources (MG); Institute of Metallurgy and Ore Beneficiation, Kazakhstan; Satbayev University, Kazakhstan; Universiti Malaya STEM Centre and Todox Digital Network) for organizing and supporting this event. I would also like to express my gratitude to speakers and judge for their commitment.

On this note, it is with great pleasure that I declare the **INTERNATIONAL INNOVATION ARSVOT MALAYSIA 2022**, hereby officially open.

Thank you.

YB. DATUK HJ. AWANG BIN HASHIM
Deputy Minister of Human Resources,
Ministry of Human Resources,
Malaysia

PROFILE KEYNOTE SPEAKER 1



YBrs. Ts. Dr. MOHAMAD BIN SULAIMAN
Deputy Director General (Development),
Department of Skills Development,
Ministry of Human Resources, Malaysia

Ts. Dr. Mohamad bin Sulaiman was born in Kota Bharu, Kelantan, Malaysia. He received his Degree in Civil Engineering in 1986 from University of Technology Malaysia (UTM) and Master's in Science (Education) in 2002 from University of Putra Malaysia (UPM). He obtained his PhD in Technical and Vocational Education and Training (TVET) from University of Tun Hussein Onn Malaysia (UTHM)/ University of Bremen in 2010.

He started his career at Lembaga Kemajuan Pertanian Kemubu (KADA) in 1987 and ESSO Production Malaysia Incorporated (EPMI) in 1988. Subsequently, he joined the Road Builder (M) Sdn Berhad in 1989 to 1991 as a Project Engineer. After 2 years with the industry, he joined National Vocational Training Council (NVTC) in 1991. In 1991, he begins his career in the National Vocational Training Council (MLVK), formerly known as National Training and Certification Craft Board (Lembaga Latihan Perindustrian dan Persijilan Ketukangan Kebangsaan / LLPPKK) under the Ministry of Human Resources as a Civil Engineer, Grade A18/A11.

In 1999, he was promoted to the position of Vocational Training Officer (PLV) Grade J2/J48 as the Director of Coordination & Consultancy Services Division at the Department of Skills Development (DSD) headquarters (from March 2003). While serving DSD, he previously held the position of Director of the Certification Division (2003-2005) and Director of the NOSS Division (2005 - 2007). In 2007, he was promoted to Grade J54 and appointed as the Director of the Planning Division and Research for 3 years (2007 - 2010). In 2015, he was entrusted to take on the job of Deputy Director General (Development) as a JUSA C grade officer. In 2018, he was assigned as the Director of the Centre for Instructor and Advanced Skills Training (CIAST) located in Shah Alam, Selangor. After serving CIAST for 3 years, he was transferred back as the Deputy Director General (Development) in DSD.

By profession he is a registered Technologist under Malaysia Board of Technologist (MBOT) in the area of Building and Construction Technology (BC). He is also currently appointed as a Member of the Board commencing from 20th November 2021.

CIAM029: COVID-19: How Did Arts Students "Perform" Psychologically in Online Learning?

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Abstract

COVID-19 has an enormous impact on the economy, social, and education system of the country. Traditionally, cinematography, music, drama and theatre, animation, fine arts and other applied and creative arts students were required to perform hands-on tasks during the learning session. However, due to the Movement Control Order (MCO), they have to adapt to a new learning method which has been switched from blended to fully online learning. Hence, the main objective of this study is to assess the association of demographic factors on the psychological status of art students in online learning. This quantitative research used the 12-items Depression, Anxiety and Stress Scale (DASS-12) questionnaire. A total of 161 first-year arts students who experienced online learning at the University Malaysia Sarawak (UNIMAS) participated in this study. The demographic profiles were analysed through descriptive and correlational analysis. The result yielded that the number of family members shows a significant difference in stress levels among these first-year students. Hence, it can be concluded that the higher the number of family members living in the same residence, the higher the tendency for the student to experience negative psychological effects.

Keywords: Mental Health, Psychological Distress, Online Learning



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