PENANG
INTERNATIONAL

Science FAIR

Inspiring Innovation

2026 E-BOOKLET

INSPIRING INNOVATION
PENANG
SCIENCE CLUSTER

PENANG 2030

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PISF 2026 EVENT NOTICE

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If you participate in any PISF 2026 activities, you agree to abide by all safety policies and accept responsibility for your own safety. Participants shall agree that PSC, its staff and partners will not be held responsible or be liable in whatsoever manner for any accident, loss, damage, claim, injury, illness and/or death suffered or incurred by you which may arise as a result of your participation.

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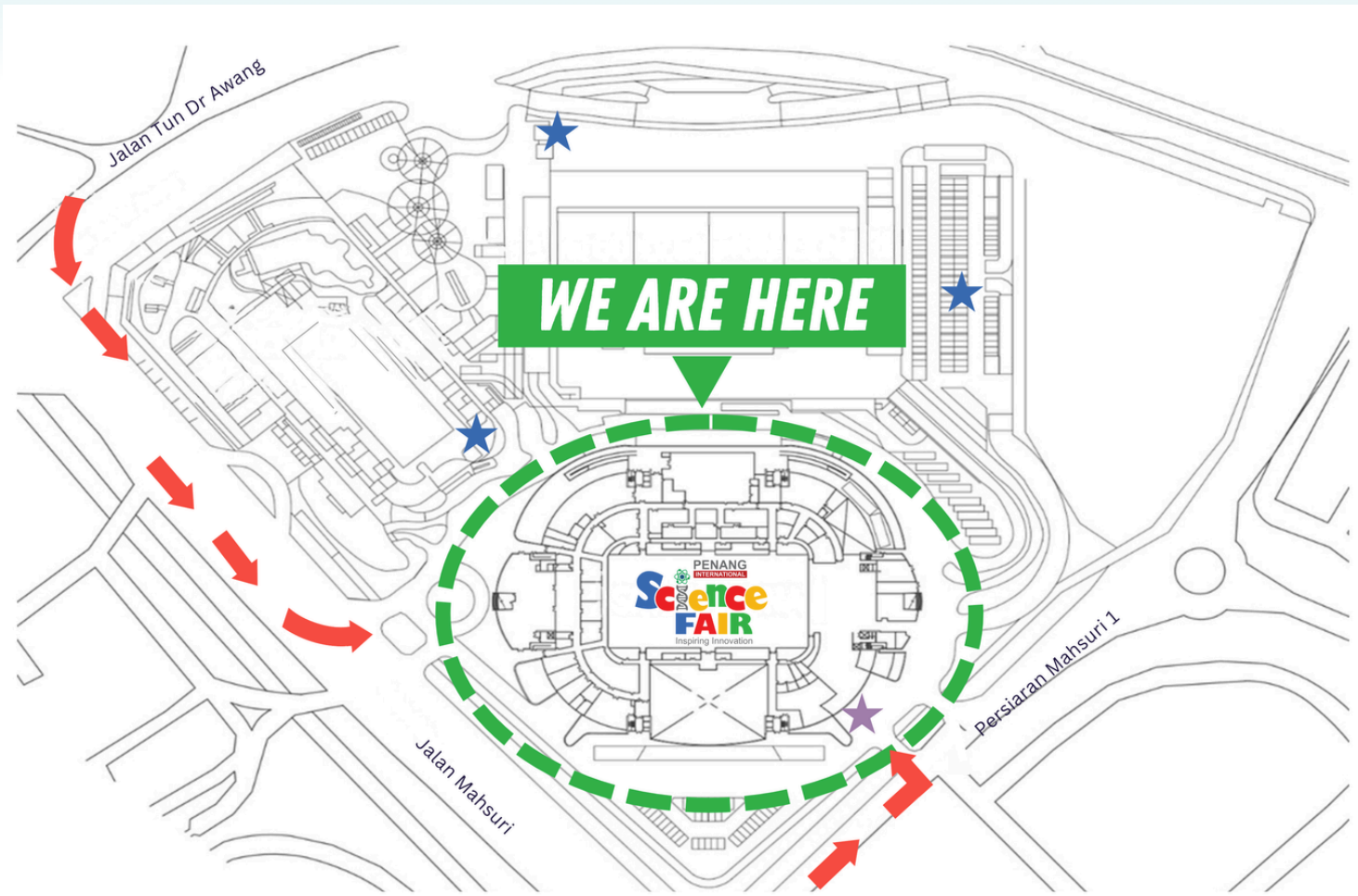
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NAVIGATION MAP

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SPICE ARENA & CONCOURSE

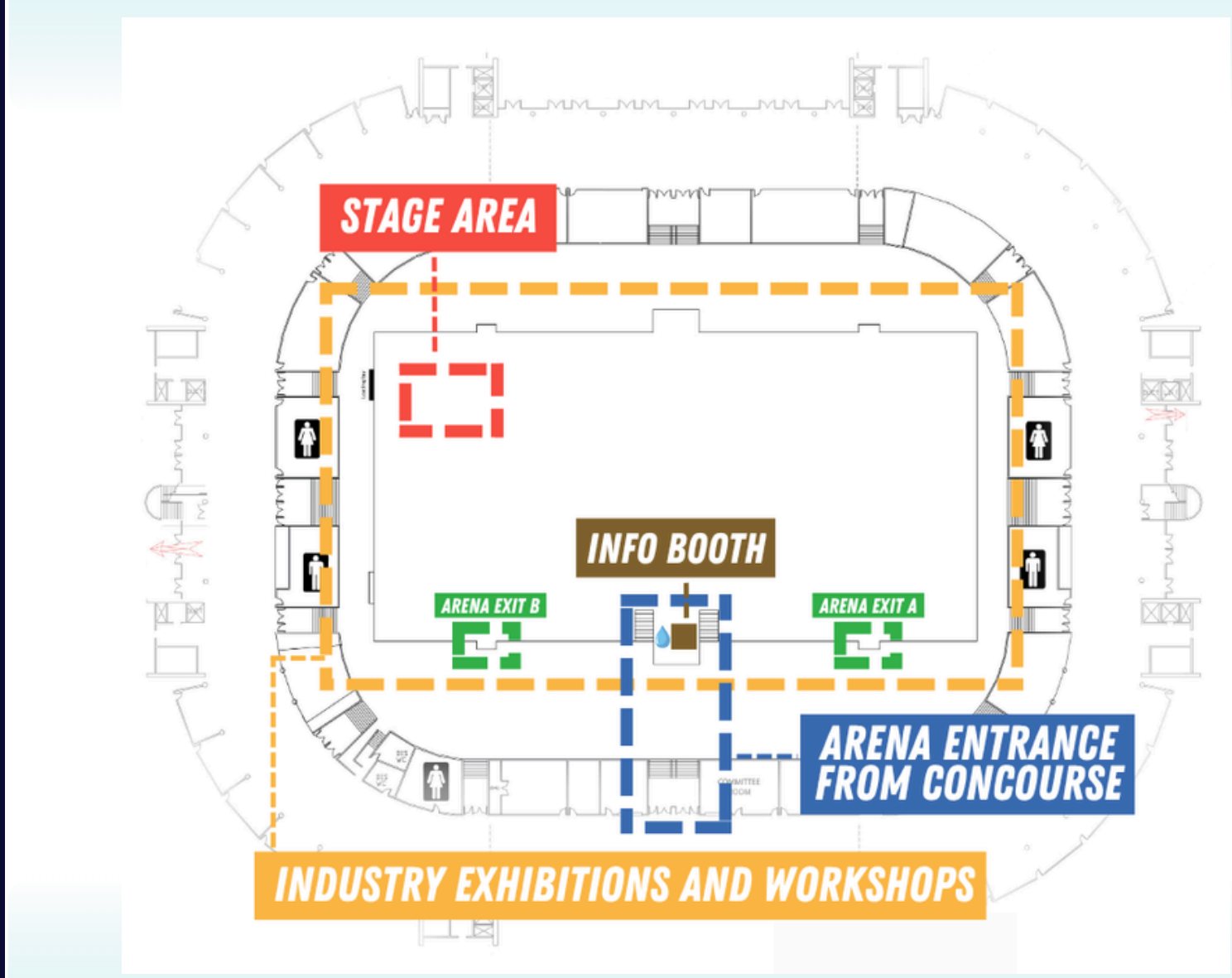


★ SPICE ARENA BASEMENT PARKING ENTRANCE

★ ALTERNATIVE PARKING

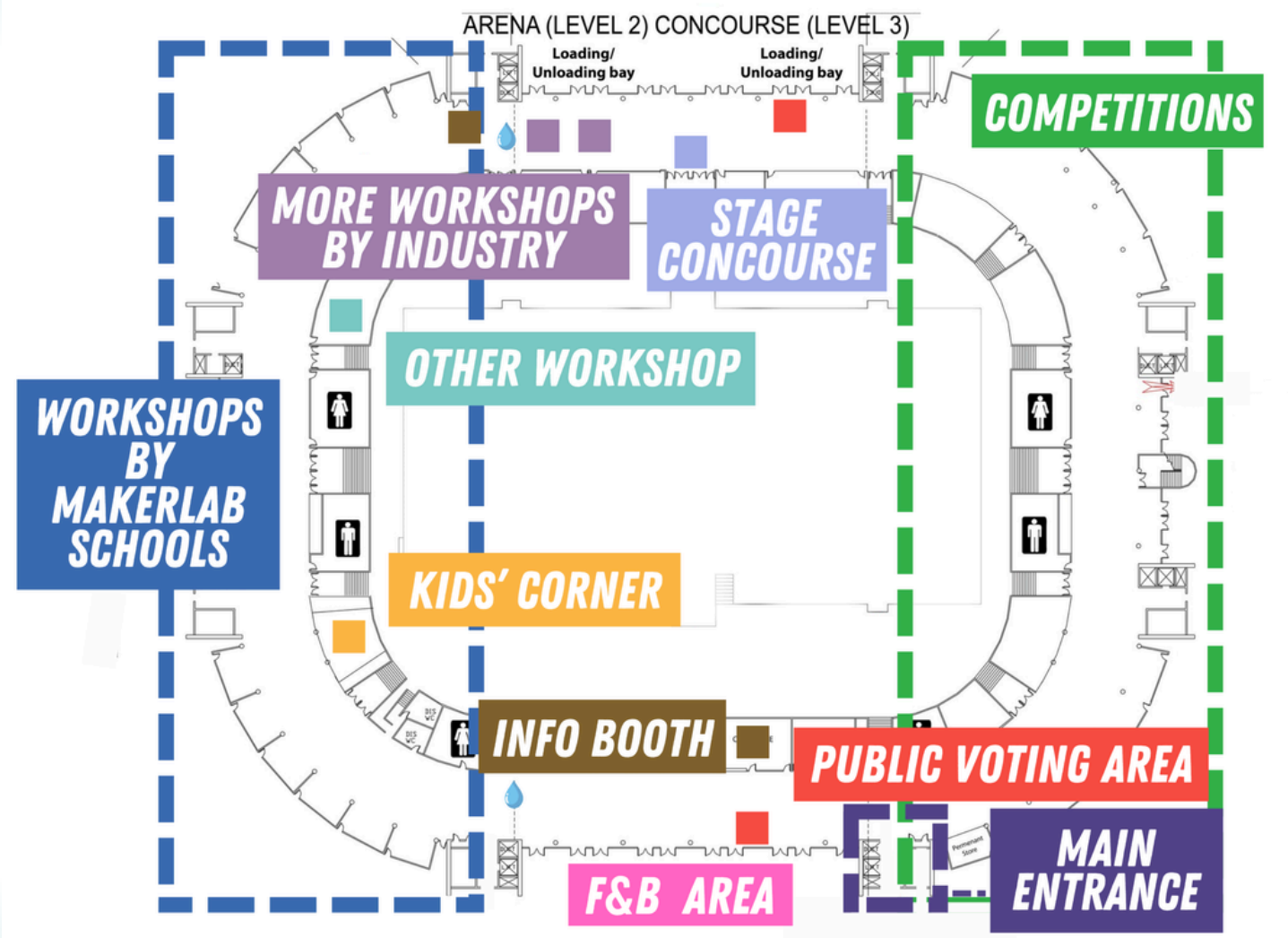
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ARENA @ LEVEL 2



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CONCOURSE @ LEVEL 3



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INDUSTRY EXHIBITIONS & WORKSHOPS

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Agilent

INDUSTRY-LED WORKSHOP

SECRET GLOWS AND INVISIBLE LIGHT



Secret Glows & Invisible Light" invites participants to explore the fascinating world of ultraviolet (UV) light and fluorescence through fun, hands-on activities. In this interactive workshop, participants will build their own UV torch and solve the "Who Stole the Formula?" challenge. Along the way, they will discover how invisible light can reveal information beyond what the naked eye can see and learn about real-world applications of UV and fluorescence technologies in science, everyday products, and innovation. Join us to uncover mysteries and experience the science behind the glow!

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B|BRAUN

INDUSTRY-LED WORKSHOP

JUNIOR ECO WARRIOR WORKSHOP



Discover how everyday choices – from morning routines to school commutes, contribute to CO_2 emissions and affect the environment.

This interactive activity helps young participants understand their personal carbon footprint and learn simple, sustainable habits that can make a big difference.

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hp

INDUSTRY-LED WORKSHOP

BUILD & CODE YOUR OWN ROBOT CAR LEARN ROBOTICS THE FUN WAY!



Explore Robotics with Tiny:bit!

Discover how coding brings robots to life. Learn to program a smart robot car to move, turn, and avoid obstacles in an exciting hands-on adventure.

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KEYSIGHT

INDUSTRY-LED WORKSHOP

ENGINEERING THE FUTURE THROUGH PLAY



Keysight invites students to step into the shoes of an engineer through three hands-on games.

In Chip Detective, they inspect a circuit board and identify its chips. In Connect & Conquer, two teams position cell towers to provide wireless coverage, monitoring signals on a virtual Keysight FieldFox analyzer.

In Keys for Speed, they tune an electric car's battery, gearing, tyres and launch based on the weather before watching it race down a track timed by light beams.

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EMERSON | NI

INDUSTRY-LED WORKSHOP

FUN WITH DAQ



Join our Fun with DAQ Workshops and experience two exciting STEM activities!

Through hands-on experiments, interactive demonstrations, and fun games, participants aged 5-17 will discover how engineers use sensors, data acquisition (DAQ), and LabVIEW to turn real-world environmental changes into visible signals and meaningful insights.

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ViTrox

INDUSTRY-LED WORKSHOP

DIY MACHINE VISION INSPECTION KIT



Machine vision is how modern factories catch a flaw in milliseconds. In this hands-on workshop you'll build a working inspection station from cardboard, LEDs and the phone in your pocket, then use a web app to scan a tray of parts with real-time image processing, pattern matching and defect analysis.

Important Note : A smartphone with a working camera and WiFi or mobile data is required to take part. Please arrive with your device charged.

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AMD

INDUSTRY-LED WORKSHOP

AI VOICE ACTIVATED HANDHELD FAN



AMD invites participants to build their own "AI Voice Activated Handheld Fan"!

In this hands-on activity, participants will assemble a compact fan with a glowing LED AMD logo, then bring it to life with their voice.

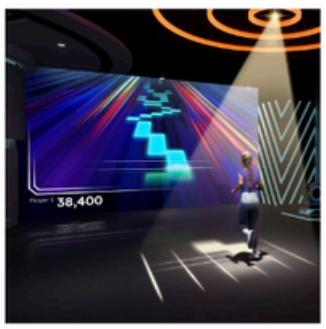
Simply speak to wake it up, turn the fan on or off, switch the AMD logo LED on or off, and even make the LED dance. Participants will discover how a microphone captures speech and how AI recognises the spoken words. Build it, try it, and take it home to stay cool on the go!

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ams OSRAM

INDUSTRY-LED WORKSHOP

SENSE THE POWER OF LIGHT: EXPLORE, PLAY & INNOVATE



Step into the exciting world of light, AI and innovation through fun, hands-on STEM activities by ams OSRAM. Race around Penang in an LED-powered challenge, explore immersive VR experiences, uncover the science of color mixing and light reflection, and discover how AI recognizes facial expressions. Experience EVIYOS™, ams OSRAM's breakthrough adaptive automotive lighting technology, featuring intelligent pixelated illumination that enhances visibility, communication and road safety.

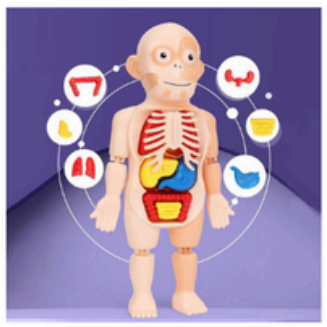
Join us to explore, experiment and experience how light-powered innovations are creating a smarter, safer and more connected future.

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Boston Scientific
Advancing science for life™

INDUSTRY-LED WORKSHOP

BUILDING THE BODY, UNDERSTANDING THE BEAT



1) Human Body Parts Assembly Challenge
A fun and interactive individual challenge where participants assemble mixed-up human body parts into a complete human body within a specified time limit. The activity tests observation, concentration, and problem-solving skills while promoting learning about the human body structure.

2) Understand Your Heart's Rhythm
See how your heart beats by placing thin, flexible tubes (catheters) in three areas of the heart and viewing the heart's electrical signals on a computer screen.

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BRUKER

INDUSTRY-LED WORKSHOP

BRUKER POP-UP LAB



How much power can you get from fruit?

Bruker is supporting battery makers to produce more efficient, safer and more environmentally friendly batteries. We'll be applying a little bit of this knowledge to find out how much power you can produce from a lemon and see how many LEDs you can get to light up.

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intel

INDUSTRY-LED WORKSHOP

CHIP ASSEMBLY CHALLENGE

Chip Assembly Challenge intel

Ever wondered how Intel chips are assembled? Suit up, and step into a kid-friendly semiconductor cleanroom to learn how to build your own chips through four simple process step activities. Experience assembling, inspecting, testing and personalizing your own mini chip keychain to take home as a special keepsake.

This activity is designed for curious young minds aged 5-14 years old.

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MOTOROLA SOLUTIONS

INDUSTRY-LED WORKSHOP

BUILD YOUR OWN AI CYBER-DECK



Construct your handheld console from scratch. Team up with AI as your coding partner to build retro arcade classics and take home a fully functional devkit!

1. Hardware Assembly
Build with an ESP32-C3 microcontroller, a crisp OLED display, and dynamic RGB LEDs.

2. AI Game Engine
Program games—such as Pinball with AI algorithms.

3. ESP-NOW Wireless Protocol
No routers. No lag. Just battles with friends.

PENANG INTERNATIONAL Science FAIR
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PLEXUS

INDUSTRY-LED WORKSHOP

SMART FACTORY IN ACTION



Step into the future of manufacturing at our hands-on Smart Factory AI Workshop! Experience an interactive EMS roleplay where simple materials, basic electronics, and AI come together. PICK components with smart part guidance, BUILD your unit with LEDs, RUN automated AI vision quality checks, and TEST on a live track!

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BOSCH
Invented for life

INDUSTRY-LED WORKSHOP

MINI RACING CAR



Welcome to the combined booth of Robert Bosch Power Tools & Semiconductors.

At our booth you will have the opportunity to experience the usage of our power tools not only for it's primary use but also it's consistency values and the application of semiconductor in our vehicles.

You will have a hands on experience in building and racing a mini car and observe the semiconductor in action.

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dream CATCHER

INDUSTRY-LED WORKSHOP

DANCE DANCE



Bring your imagination to life through drawing, technology, and movement!

In Dance Dance, participants will design and decorate their very own character. Once their creation is complete, they'll use an AI-powered animation tool to transform their drawing into a lively digital character.

Explore how art, creativity, and AI technology can work together to turn a simple drawing into an animated character.

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GREATECH

INDUSTRY-LED WORKSHOP

BUILD WITH AI



The workshop will give students a fun and hands-on experience to interact with AI, explore their ideas, and see how AI can guide them step by step to create their own structure.

- **Learn how to ask AI for help.**
- **Use AI guidance to design and build with popsicle sticks.**
- **Discover how asking the right questions can help turn your ideas into something amazing!**

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Ideal VISION

INDUSTRY-LED WORKSHOP

VI PLAY



Step into VI PLAY, where vision technology meets artificial intelligence to create an experience beyond the ordinary. Explore our interactive game stations, you can choose your challenge, and let curiosity lead the way. Powered by AI vision technology, the games respond to your gestures, movements, and facial expressions in real time, turning natural actions into exciting gameplay.

Come play, have fun, and discover exciting challenges and souvenirs waiting for you!

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JABIL

INDUSTRY-LED WORKSHOP

JABIL SOLAR TRACKER



A solar tracker is like a stealthy ninja on a sun-chasing mission, keeping solar panels perfectly in step with the sun's daily waltz. This clever contraption turbocharges sunlight capture, sending electricity production skyrocketing compared to panels that just kick back in one spot. By artfully tweaking angles, solar trackers transform solar setups into efficiency dynamos. This kit features a straightforward single-axis tracker, equipped with light-dependent resistor (LDR) sensors that track the sun like a pro! It might look like a breeze, but there are 19 parts waiting for your tinkering skills—happy assembling!

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Mini-Circuits

INDUSTRY-LED WORKSHOP

BUILD IT,CODE IT, MAKE YOUR OWN KEYBOARD!



1. Build It. Code It. Make Your Own Keyboard!
Participant will experience soldering and assemble a customized small keyboard on a lego base plate, and learn to code it with AI programming.

2. Code and Drive, LEGO Robot Challenge
Participant will learn to code and drive the LEGO car.

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Inspiring Innovation

PENGUIN SOLUTIONS

INDUSTRY-LED WORKSHOP

AI PLAYZONE
EXPRESS, CONNECT & CREATE



Discover how Artificial Intelligence (AI) recognises facial expressions and hand gestures through two interactive games. Mood Mirror introduces AI-based mood prediction and gesture matching, while Pinchzzle demonstrates how hand movements can control a digital puzzle.

Through hands-on play, participants explore how cameras capture visual information and AI interprets it to respond in real time—building curiosity, creativity and an understanding of AI in everyday applications.

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PROJET
A "by Engineer, for Engineer" company

INDUSTRY-LED WORKSHOP

FUTURE MAKERS EXPLORE THE CITY OF 3D PRINTING



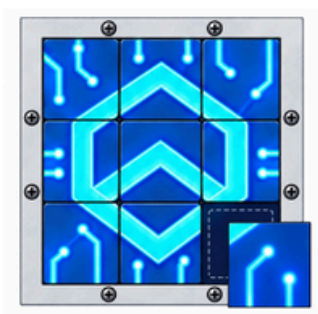
Get ready for a hands-on journey into the fascinating world of 3D printing! Discover how this incredible technology turns creative ideas into real, touchable objects and makes things possible in ways we could only imagine in the past. From toys and everyday products to innovative designs and future inventions, explore the endless possibilities of 3D printing. Learn about different materials, see how technology has evolved, and unleash your inner inventor as you discover how today's ideas can shape tomorrow's world!

PENANG INTERNATIONAL Science FAIR
Inspiring Innovation

QDOS

INDUSTRY-LED WORKSHOP

SEMICONDUCTOR CIRCUIT PUZZLE CHALLENGE



Slide. Shuffle. Solve. Light Up the Future!

Think you can solve the challenge?
Come and join us at our booth and put your puzzle-solving skills to the test! Slide and shuffle the 8 puzzle pieces into the correct positions, then place the final piece to complete the circuit and watch the QDOS logo LIGHT UP!

Capture your light-up victory moment at our booth! And don't forget to join our Lucky Draw for a chance to win amazing prizes!

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Inspiring Innovation

4TM Technologies

INDUSTRY-LED WORKSHOP

DISCOVER HOW PRINTED CIRCUIT BOARD IS MADE



Every electronic device needs a Printed Circuit Board (“PCB”) to connect its electronic components.

In this hands-on workshop, students will experience a simplified process and discover how a circuit design is transferred onto a copper board and take home their very own custom designed circuit board.

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Inspiring Innovation

Cytron Technologies

INDUSTRY-LED WORKSHOP

BUILD.CODE.PLAY!



Step into a quick hands-on coding activity where you’ll build a simple program with micro:bit or Raspberry Pi. Try out basic coding concepts, put your instructions together, and see what happens when your code comes to life.

No coding experience needed — just build, try, and play!

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Swisspac™

INDUSTRY-LED WORKSHOP

AI IN STEM



The Future is AI.

This phrase is definitely TRUE! However, how can I start?

Swisspac@EDU provides bite sized AI learning through platforms we are already familiar with such as Scratch, micro:bit & UNIHIIKER. Lets future proof our kids!

PENANG INTERNATIONAL Science FAIR
Inspiring Innovation

ARUS

INDUSTRY-LED WORKSHOP

SKILL-VENGERS: MISSION AI



Skill-Vengers, Assemble!

Ready to discover your inner hero? In Skill-Vengers: Mission AI, combine your skills, tackle real-world challenges, and explore creative possibilities with AI as your sidekick. Put your imagination to the test and discover how your unique innovation can make a difference. Step into the mission and turn your skills into superpowers!

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INDUSTRY-LED WORKSHOP

MAJLIS BANDARAYA PULAU PINANG
MY3D CITY CREATORS



Create Your Own Mini City!

Explore the fun of 3D drawing as you design and build your own miniature city structures using a 3D printing pen. Discover how creativity, science, and technology come together to shape the cities of the future.

Design the City of Tomorrow! Ready to bring your imagination to life? Discover the exciting world of 3D pens and transform colorful lines into amazing three-dimensional creations!

YOUR IDEAS. YOUR DESIGN. YOUR CITY.

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PENANG STEM 4.0

INDUSTRY-LED WORKSHOP

PENANG STEM GROUP



Get ready to explore Penang STEM group with the Penang STEM ecosystem, intiated by the Penang State Government and featuring the Penang Skills Development Centre, Penang Science Cluster, Tech Dome Penang, Penang Math Platform, and Penang Digital Library. Explore a wide range of fun hands-on STEM relevant activities to promote science centre, Sensing the Future, Math & Logic puzzles offered by our STEM Centres! Get ready to embark on a science-filled adventure! Experience a world of wonder, innovation and discovery at our booth G01, G02 & G03.

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USM UNIVERSITI SAINS MALAYSIA
ACS Malaysia International Chapter
ACS Universiti Sains Malaysia Student Chapter

INDUSTRY-LED WORKSHOP

SMALL EXPERIMENTS BIG DISCOVERIES HANDS-ON SCIENCE!



1. Water pH Testing
Test aquarium water pH and discover its impact on aquatic life and the environment.

2. Colourful Polymer Beads
Create colourful polymer beads and explore how polymers form gels and their everyday uses.

3. Snap Circuits: Build It. Snap It. Power It.
Join USM's Team Physics to build circuits and explore LEDs, switches and motors—no wires or soldering needed!

4. Snap Learn Create!
Build an LED light, buzzing traffic light and spinning flying saucer while exploring electrical circuits

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WORKSHOPS BY MAKERLAB SCHOOLS

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micron x

MAKERLAB SCHOOL WORKSHOP

D.I.Y. PORTABLE HAND FAN



Build your own breeze and beat the heat!

Learn how to safely connect a motor and switches to create a fully working, personalized wooden hand fan from scratch. It's a fantastic way to master simple electrical circuits while building a practical gadget you can take home!

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micron x

MAKERLAB SCHOOL WORKSHOP

PERISKOP MINI



Want to see around corners like a submarine captain?

Fold and assemble your very own mini periscope using mirrors to discover how light reflects. After decorating it with fun animal stickers, you can take your cool new spy gadget home!

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Inspiring Innovation

micron x

MAKERLAB SCHOOL WORKSHOP

CATAPULT MINI



Ready, aim, and then.. launch!

Channel your inner engineer and learn the thrilling physics of force by building a powerful miniature catapult. It's a fantastic way to turn complex STEM concepts into an action-packed game that you can take home and play with your friends!

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micron x

MAKERLAB SCHOOL WORKSHOP

INFINITY MIRROR & 3D PEN



Dive into an endless tunnel of light and let your imagination run wild!

Build an awesome Infinity Mirror using LED strips to learn about light reflection, then master 3D pen technology to draw custom keychains in mid-air. It's two spectacular, take-home STEM projects in one!

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VITrox X

MAKERLAB SCHOOL WORKSHOP

UNLEASH YOUR FIVE SENSES



How well do you know your senses?

Join an interactive challenge where you will visit five sensory stations to test your sight, smell, touch, taste, and hearing, then redeem a special gift! It's a fun way to discover how our bodies function while building empathy for the challenges faced by the elderly.

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VITrox X

MAKERLAB SCHOOL WORKSHOP

REMOTE CONTROLLED CAR



Ready, set, race!

Put on your engineer's hat and assemble your very own remote-controlled car using a wooden chassis and DC motors. Kids will discover the magic behind wireless signals, then test their custom vehicle's speed on our special track before taking it home!

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VITrox X

MAKERLAB SCHOOL WORKSHOP

POWER AND CIRCUITS



Want to build your own playable Tetris game and race a car powered by real salt water?

Come join us to try real soldering, build cool circuits, and take your creations home! It's super fun, hands-on, and the best way to learn real engineering!

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B BRAUN SHARING EXPERTISE X

MAKERLAB SCHOOL WORKSHOP

DIY KALEIDOSCOPE



Create your own pocket-sized magic!

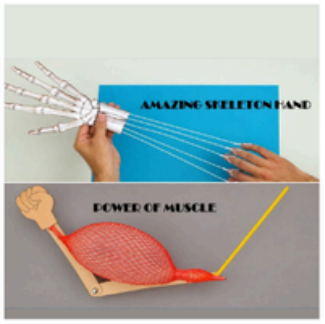
Construct a functional DIY kaleidoscope using mirror cards, colourful beads and marker pens. You'll explore the cool science of light reflection and symmetry, and take home a mesmerizing, personalized sensory toy.

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B BRAUN SHARING EXPERTISE X SMKBJ

INDUSTRY-LED WORKSHOP

AMAZING SKELETON HAND & POWER OF MUSCLE



Ever wondered what makes your fingers move?

Get ready to build your very own moving skeleton hand and uncover the science behind human movement! You'll explore how bones, joints, and muscles work together while getting hands-on with a fun activity that brings anatomy and biomechanics to life!

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Lam RESEARCH X

MAKERLAB SCHOOL WORKSHOP

V-BLOW



V-BLOW is a portable 2-in-1 cleaning device that combines vacuum and blower functions in a single compact unit.

The vacuum function is designed to collect dust, small debris, and dirt from surfaces that are difficult to clean, while the blower function produces a stream of air to push or blow away dust and dirt from narrow or hard-to-reach areas such as keyboard gaps, electronic equipment, worktables, and other confined spaces. Its compact, lightweight, and user-friendly design makes V-BLOW suitable for use at home, in workshops, laboratories, offices, and workspaces.

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Lam RESEARCH X

MAKERLAB SCHOOL WORKSHOP

SMART LIGHT SENSOR DIY WORKSHOP



A hands-on STEM workshop where participants build their own smart acrylic lamp using a light sensor.

The lamp automatically responds to changes in surrounding light, introducing participants to basic electronics, sensor technology, simple assembly and creative product design.

Participants will also personalise their own acrylic panel and take home the completed GlowMate lamp — and a real taste of how smart devices work

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AMD X

MAKERLAB SCHOOL WORKSHOP

SOAP CRAFT LAB



Science has never smelled so incredibly good!

Be a chemist for a day as you mix your favorite colors and essential oils to create beautiful, flower-shaped handmade soaps. It's a wonderful sensory experience, and you get to take home a personalized, sweet-smelling souvenir!

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ANALOG DEVICES
AHEAD OF WHAT'S POSSIBLE™

X

MAKERLAB SCHOOL WORKSHOP

THE MAGIC OF MOTION



Get ready to build and discover the science behind things that move!

Choose your challenge: build a flying cup helicopter, magnetic levitation sculpture, or popsicle stick catapult.

You'll put your engineering skills to the test as you experiment with flight, magnetism, and simple machines through fun hands-on activities

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MOTOROLA SOLUTIONS

X

MAKERLAB SCHOOL WORKSHOP

MECHANICS AND OPTICS



Become a master builder and uncover the clever engineering that powers our world!

You will get hands-on experience assembling the pneumatic movement powered by air and exploring optical illusions of motion from a series of static pictures.

It's the perfect workshop for curious kids who love building mechanisms that actually move!

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PENTAMASTER x SJK KWANG HWA

MAKERLAB SCHOOL WORKSHOP

FOODBOT



Step into the future by building your very own Food Delivery Robot!

Kids will assemble a working bot while diving into the fascinating world of programming, sensors, and engineering design. You'll boost your STEAM confidence and walk away with a fantastic gadget to show off!

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PLEXUS x SMK JD

MAKERLAB SCHOOL WORKSHOP

CIRCUIT CRAFT : ANIMATE AND RECORD



Bring your artwork to life with the power of electronics!

Mix drawing with simple circuits using copper tape, motors, and voice recorder modules to make your creations move and play sounds. It's the perfect hands-on workshop for creative kids who love to invent!

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PSC - LED WORKSHOPS

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PSC-LED WORKSHOP

VIRTUAL REALITY



Step inside a 360° digital world where you become part of the action!

Grab your virtual sabers to slash flying cubes to the beat, and get ready to physically duck and dodge out of the way of glowing walls. How does it feel so real?

Two tiny screens inside the headset create a perfect 3D illusion, while smart trackers instantly copy your real-life arm swings and body movements into the game. The computer updates the graphics so fast that your brain is completely tricked into believing you are really there!

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PSC-LED WORKSHOP

MATHEMATICS BATTLE



Step up to the screen and challenge your friends to a high-energy math duel!

It is time to test your mental speed and see how fast your brain can recognize patterns and solve equations under pressure.

As you race against the clock, the digital system instantly tracks your speed and accuracy to crown the ultimate winner. Come experience how smart algorithms and interactive technology can turn everyday math into a thrilling competitive sport!

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PSC-LED WORKSHOP

AI FOR OCEAN



Dive into a fun, interactive sorting game where you get to teach a virtual robot how to protect our oceans!

Your mission is to help the computer learn the difference between the shape of a happy swimming fish and a piece of floating plastic.

As you play, you will see exactly how AI gets smarter just by looking at lots of examples (data). It is a wonderful way to discover how humans and machines can work together to clean up our environment and solve real-world problems!

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PSC-LED WORKSHOP

QUICK DRAW



Test your drawing skills against a ticking clock and a very chatty computer!

You will have just 20 seconds to sketch everyday objects while the AI tries its best to guess what you are drawing out loud.

The secret is that the AI doesn't just look at your final picture! It tracks the exact direction and speed of every single pen stroke. By comparing your doodle to millions of others, you get to see first-hand how computers are trained to "see" and understand human sketches!

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INSPIRING INNOVATION PENANG SCIENCE CLUSTER

PSC-LED WORKSHOP

SAY WHAT YOU SEE



Learn the secret language of talking to AI by testing your visual detective skills!

Study an AI-generated image and try to write a highly descriptive prompt that captures all the shapes, colors, and textures you see to get the highest score.

As you type, you will see how the computer interprets your written keywords and turns them into beautiful digital artwork. It is a fantastic way to discover how AI uses context and adjectives to build completely new visuals from scratch!

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INSPIRING INNOVATION PENANG SCIENCE CLUSTER

PSC-LED WORKSHOP

SEMANTRIS



Put your vocabulary to the test in this clever word association game!

Your goal is to give the computer smart, one-word hints to help it guess the correct target words and clear the board.

Watch in amazement as the AI maps out millions of invisible connections to understand your clues. You will get to see how the algorithm instantly links your hint to the right word, discovering how machine learning bridges the gap between raw computer code and natural human thought!

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PSC-LED WORKSHOP

FAKE OR REAL



Put your detective skills to the ultimate test in this mind-bending visual challenge!

Your goal is to carefully examine a series of stunning images and decide for each one: is it a genuine photograph, or was it entirely generated by artificial intelligence?

Watch closely as you learn to spot the hidden "tells" and subtle glitches that AI often leaves behind, like unnatural lighting, strange textures, or distorted backgrounds.

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MAKERFEST

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AI: MACHINE VISION PROJECT SHOWCASE & COMPETITION



Explore intelligent automation with Advanced MakerLab – AI: Machine Vision, a six-month programme where students use machine learning for tasks like face detection and object recognition. The top projects return from the October Final to compete for awards. Meet the students, watch the AI Vision Quest and vote for your favourite.

INSTRUCTABLES PROJECT SHOWCASE & COMPETITION



Advanced MakerLab – Instructables challenges students to give their builds a new purpose. Over six months, teams of four work with mentors to build a project from Instructables.com and adapt it for a real-life setting. The top 20 teams bring their builds to MakerFest. Explore and vote for your favourite.

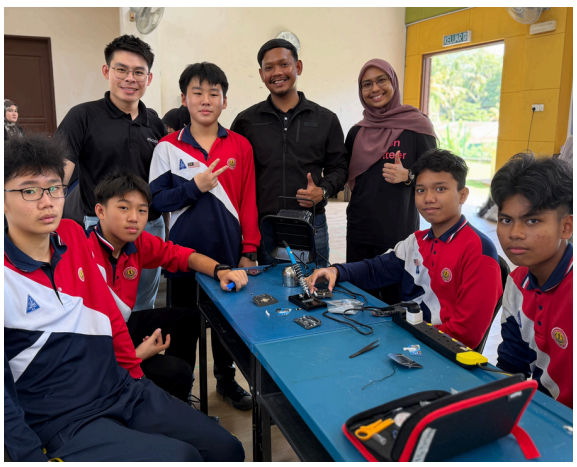
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4×4 SHOWCASE & COMPETITION



Over six months, students combine mechanics, electronics, coding and physics to design, build and refine their own 4×4 RC cars, even crafting wooden garages for them. After the October Final, teams return to compete for Best Car, Best Driver, Best Garage and Best Tag Team. Watch for the Orang Asli MakerLab team from Perak.

MAKERLAB JOHOR SHOWCASE



Students from SMK Kahang, SMK Bukit Pasir and SMK Bandar Maharani bring their creations to the MakerLab Johor Showcase! Through MakerLab, they build STEM skills using coding, microcontrollers, 3D design and 3D printing. Visit the showcase to explore their work and hear from the students about their designs and discoveries.

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KIDS' CORNER



Discover science in fun and exciting ways through hands-on activities. It is a chance for young explorers to ask questions, try something new and see how exciting science can be.

The perfect space for curious minds to get hands-on and make discoveries!

SOLDERING & LASER ENGRAVING WORKSHOP



Try your hand at soldering and laser engraving! Friendly industry volunteers will guide you through soldering your own badge and personalising a wooden souvenir. Whether it is your first time or you are simply curious, this is a fun introduction to practical making skills, with creations to take home.

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POP-UP CHALLENGE

MacMaker

A PRACTICAL PROBLEM SOLVING COMPETITION

21 - 22 November 2026 | SPICE Arena & Concourse

ROUND 1	ROUND 2
9:00 AM – 12:30 PM	1:00 PM – 4:30 PM

CHALLENGE DETAILS

Calling all junior engineers and makers! Flash floods are rising, and the cargo needs to be elevated to safety. Assemble your duo, trade your tokens, and build a structure strong enough to conquer our cargo test!

HOW TO REGISTER

Walk-in to our pop-up booth at **SPICE Arena Level 3 Concourse** (Opposite Loading Bay) to register on the spot!

EXCITING REWARDS

- Exclusive token gift for all MacMaker challengers.
- The best designs from each round will earn a spot at the Leaderboard Showcase!

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PENANG 2030

pisf.pscpen.com
facebook.com/pscpisf
pisf@pscpen.com

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POP-UP CHALLENGE

MAKER! LAB

22 November 2026 | SPICE Arena & Concourse

ROUND 1	ROUND 2
OBSTACLE CHALLENGE	SPEED CHALLENGE
9:00 AM – 12:30 PM	1:00 PM – 4:30 PM

CHALLENGE DETAILS

For the first time ever, we're opening the driver's seat to the public! Take the wheel of a 4×4 to race against the clock and conquer tricky terrain. Post the best run to claim—and defend—your spot on the live leaderboard!

HOW TO REGISTER

Walk-in and sign up on the spot. We are at **Concourse Level 3 near to the Concourse Stage** opposite the Loading Bay.

EXCITING REWARDS

Hold your rank to keep your name in the spotlight.
Top drivers take home exclusive gifts!

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COMPETITIONS

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BROADCOM FOUNDATION

NATIONAL AI CHALLENGE

Young Minds. AI Solutions. Real-World Impact.

The National AI Challenge 2026 brings together primary and secondary school students from across Malaysia to develop AI-powered solutions to real-world challenges through machine learning and mobile app development.

At PISF 2026, 60 finalist teams will showcase their projects. Discover their ideas and see how the next generation is applying AI to address real-world challenges.

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BROADCOM FOUNDATION

COOLEST PROJECTS MALAYSIA

Young Innovators. Big Ideas. Endless Possibilities!

Coolest Projects Malaysia 2026 brings together 100 young finalists, comprising 50 Primary and 50 Secondary students, to showcase their creativity and innovation at the Penang International Science Fair (PISF) 2026!

Featuring five exciting categories including Hardware, Visual Programming, Games, Web, and the NEW Mobile Apps category, these young innovators are ready to bring their ideas to life!

Come explore their projects and celebrate the next generation of tech innovators!

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EMERSON | NI

LEGO ROBOTIC CHALLENGE

Small Builders. Big Missions!

The robots are back, and new missions await! After 70 teams put their skills to the test, mission after mission, at the LEGO Robotics Challenge (LRC) Final in October, 20 finalist teams return to PISF 2026 for another round of action.

These primary school students are ready to tackle more missions and compete for more awards, putting their robot designs, coding skills and teamwork to work. Every run is a chance to solve a problem, improve a strategy and celebrate a breakthrough! Come cheer on the teams and see what these determined young minds and their robots can do!

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EMERSON | NI

COMPUTER SCIENCE CORE SKILLS

Computer Science Core Skills aims to inspire students to solve real-world challenges through innovative, hands-on projects.

Participants will develop dynamic websites using HTML, CSS, and JavaScript, while incorporating PHP and SQL for backend functionality.

This competition enhances their coding skills and prepares them for future roles as technical or software engineers.

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AMD

GENERATIVE AI CHALLENGE

AMD GenAI Challenge 2026 is the competition at the heart of GenAI by AMD, a program funded by AMD and run by Penang Science Cluster. It aims to turn secondary school students from AI users into AI engineers.

Students from Penang, Kedah, Perak and Selangor participate in hands-on state workshops on Generative AI and this year's theme: Engineering the Autonomous Future with Agentic AI. Teams go beyond chatbots to build systems that see, plan and act independently to solve real problems.

The Top 16 teams advance to the National Final, where each receives guidance from an AMD mentor to refine their prototypes and pitches. At PISF 2026, teams showcase their systems live, followed by the Award Ceremony.

PENANG INTERNATIONAL Science FAIR
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KEYSIGHT

AI FOR SOCIAL GOOD: A YOUTH DATA SCIENCE PROGRAM

In this competition, students will work in teams to create a project using Machine Learning (ML) and Data Science. Their challenge is to choose a real-world issue linked to the United Nations Sustainable Development Goals (SDGs) — such as health, education, poverty, climate change, or clean water.

They will use the power of AI, ML, and data science tools to discover patterns, make predictions, or uncover useful insights. The project should demonstrate how technology can make a real difference in improving lives and protecting the environment.

Visit our website for more info : pscpen.com/data-science

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ENGINEERING DESIGN CHALLENGE NATIONAL FINALS

Bigger Ideas. A Bigger Challenge!

The Engineering Design Challenge (EDC) 2026 returns on an even bigger scale, welcoming both primary and secondary school categories!

Teams are challenged to create 3D-printed projects featuring at least 10 unique components, movable parts and real-world applications. Following the national-level evaluation, 16 finalist teams from each category—32 teams in total—come together at PISF 2026 for the National Final Showcase and Award Presentation.

Explore the designs, meet the teams behind them and celebrate their engineering achievements.

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CHUMBAKA - JUNIOR INNOVATE

Little Creators. Big Ideas!

For the first time, Junior Innovate introduces the 678 Challenge, specially designed for young innovators aged 6 to 8! Through the theme Save Our Planet: Octo Game Challenge, children unleash their creativity by designing interactive games using OctoStudio, inspiring others to care for nature and the environment.

Shortlisted young creators from across Malaysia will showcase their games, share their ideas and celebrate their first steps into the exciting world of coding and innovation at PISF 2026.

Come discover what our youngest innovators can create!

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PUBLIC VOTING MANUAL

PUBLIC VOTING: DAY 1

PUBLIC VOTING MANUAL DAY 1

CAST YOUR VOTE NOW !

Join us in the public voting to select the **Most Popular Award** recipients! Your participation is voluntary and open across all competitions.

*Sertai pengundian awam untuk memilih penerima **Anugerah Paling Popular**! Penyertaan anda adalah sukarela dan terbuka bagi semua pertandingan.*

STEP 1 / *LANGKAH 1*

Explore the competitions at the concourse area, featuring all participating teams.

Kunjungi semua pertandingan di ruangan legar yang menampilkan semua kumpulan yang bertanding.

STEP 2 / *LANGKAH 2*

Head to our designated **Public Voting booth (I)** to cast your vote!

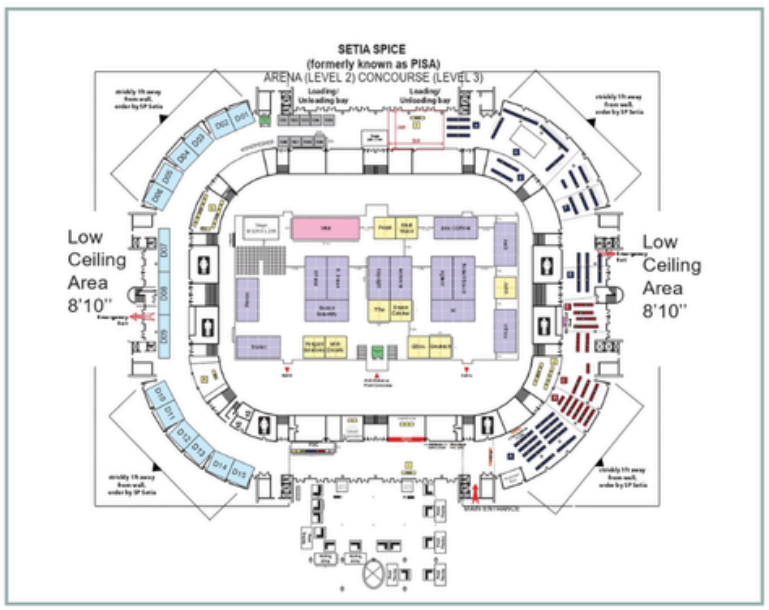
***Terus ke stesen Pengundian Awam (I)** untuk membuat pengundian kumpulan pilihan anda!*

STEP 3 / *LANGKAH 3*

Check in with our staff after voting.

Sila maklumkan kepada staf kami selepas selesai mengundi.

MAP AND INFORMATION / *PETA DAN INFORMASI*



CODE *KOD*	COMPETITION & EVENT *PERTANDINGAN DAN PAMERAN*	PUBLIC VOTING AWARD *ANUGERAH PENGUNDIAN AWAM*	VOTING TIME END *MASA AKHIR PENGUNDIAN*
A	COOLEST PROJECTS MALAYSIA (PRIMARY)	MOST POPULAR PROJECT	3.00 PM
B	AI FOR SOCIAL GOOD : A YOUTH DATA SCIENCE PROGRAM	MOST POPULAR PROJECT	4.00 PM
C	ADVANCED MAKERLAB AI : MACHINE VISION	MOST POPULAR PROJECT	3.00 PM
D	GENERATIVE AI CHALLENGE	MOST POPULAR PROJECT	4.00 PM
E	COMPUTER SCIENCE CORE SKILLS (CS^2)	MOST POPULAR PROJECT	4.00 PM
F	ADVANCED MAKERLAB INSTRUCTABLES	MOST POPULAR PROJECT	3.00 PM
G	ADVANCED MAKERLAB : 4 X 4 RC CAR	BEST CAR & BEST GARAGE	3.00 PM
D01 -D15	WORKSHOP BY MAKERLAB SCHOOLS	MOST POPULAR SCHOOL WORKSHOP	-
I	PUBLIC VOTING BOOTH	-	-

PUBLIC VOTING: DAY 2

PUBLIC VOTING MANUAL DAY 2

CAST YOUR VOTE NOW !

Join us in the public voting to select the **Most Popular Award** recipients! Your participation is voluntary and open across all competitions.

*Sertai pengundian awam untuk memilih penerima **Anugerah Paling Popular**! Penyertaan anda adalah sukarela dan terbuka bagi semua pertandingan.*

STEP 1 / *LANGKAH 1*

Explore the competitions at the concourse area, featuring all participating teams.

Kunjungi semua pertandingan di ruangan legar yang menampilkan semua kumpulan yang bertanding.

STEP 2 / *LANGKAH 2*

Head to our designated **Public Voting booth (I)** to cast your vote!

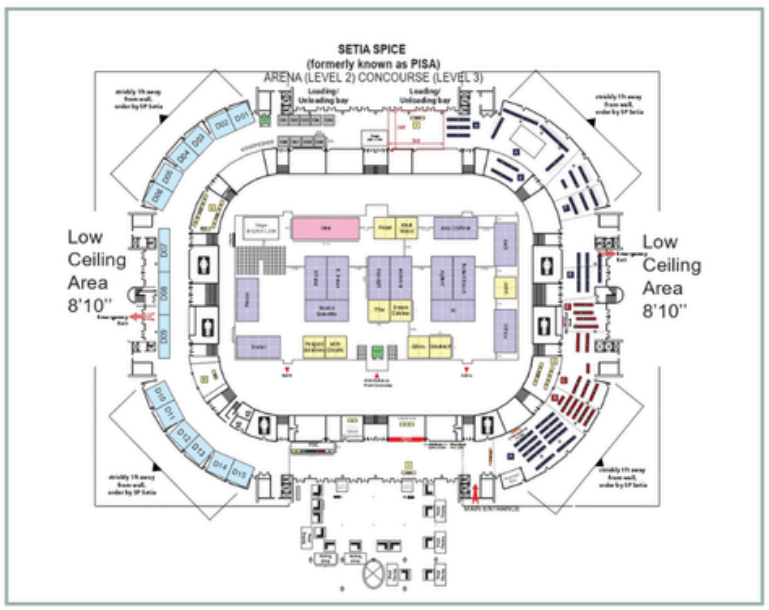
*Terus ke **stesen Pengundian Awam (I)** untuk membuat pengundian kumpulan pilihan anda!*

STEP 3 / *LANGKAH 3*

Check in with our staff after voting.

Sila maklumkan kepada staf kami selepas selesai mengundi.

MAP AND INFORMATION / *PETA DAN INFORMASI*



CODE *KOD*	COMPETITION & EVENT *PERTANDINGAN DAN PAMERAN*	PUBLIC VOTING AWARD *ANUGERAH PENGUNDIAN AWAM*	VOTING TIME END *MASA AKHIR PENGUNDIAN*
A	COOLEST PROJECTS MALAYSIA (SECONDARY)	MOST POPULAR PROJECT	3.00 PM
B	NATIONAL AI CHALLENGE	MOST POPULAR PROJECT • TRACK 1 PRIMARY • TRACK 2 PRIMARY • TRACK 1 SECONDARY • TRACK 2 SECONDARY	2.00 PM
C			
D			
F	ENGINEERING DESIGN CHALLENGE	MOST POPULAR PROJECT • PRIMARY • SECONDARY	3.00 PM
D01 -D15	WORKSHOP BY MAKERLAB SCHOOLS	MOST POPULAR SCHOOL WORKSHOP	3.45 PM
I	PUBLIC VOTING BOOTH	-	-
J	CHUMBAKA JUNIOR INNOVATE	PEOPLE'S CHOICE AWARD	3.00 PM

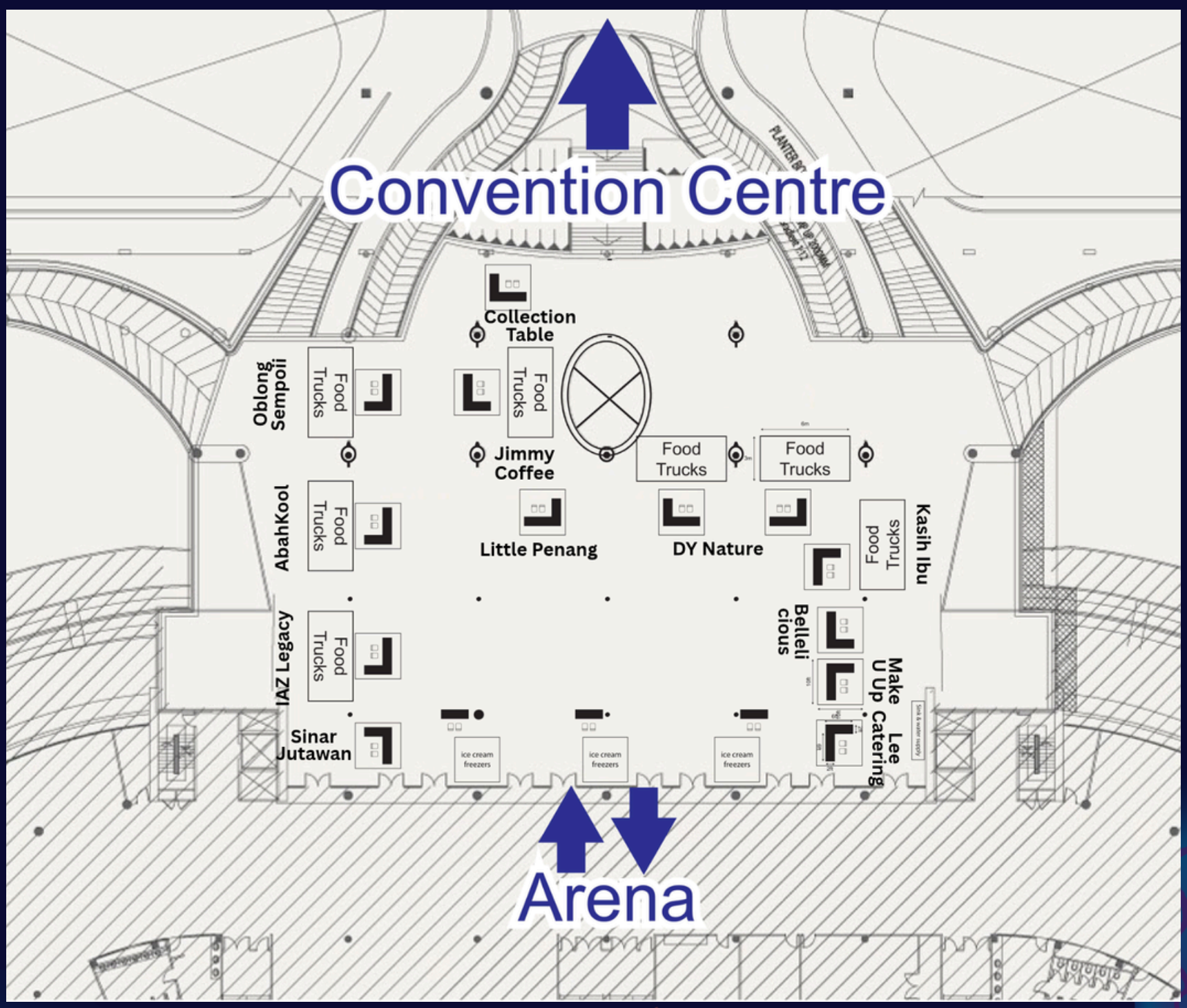
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F&B VENDORS @ LINKWAY

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F&B @ LINKWAY



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LEE CATERING

- VEGETARIAN FRIED RICE (RM5)
- VEGETARIAN FRIED INSTANT NOODLE (RM5)
- VEGETARIAN BEE HOON (RM5)
- POPCORN CHICKEN (RM3)
- MILO & ASSORTED PACKET DRINKS (RM3)

DY NATURE ENTERPRISE & GOLDEN STAR NATURE

- CHICKEN RICE, CURRY SAUCE (RM8)
- CHICKEN RICE, SOY SAUCE (RM8)
- FRIED CHICKEN ORIGINAL (RM12)
- FRIED CHICKEN SPICY (RM12)
- JUMBO CHEESE SAUSAGE (RM5)
- CRISPY ENOKI MUSHROOM (RM8)

- CHICKEN POPCORN SPICY
  - SMALL (RM6)
  - LARGE (RM12)
- CHICKEN POPCORN ORIGINAL
  - SMALL (RM6)
  - LARGE (RM12)
- K-STICKS (RM8)
- K-POPCORN (RM12)
- K-DRUMLET (RM12)

LITTLE PENANG

- STEAM CORN IN CUP (RM4)
- FRIED CORN WITH MOZZARELLA CHEESE (RM6)
- HONEY LEMON LIME-NADE (RM5)
- HONEY PASSION FRUIT DRINK (RM5)

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SINAR JUTAWAN ENTERPRISE

- NASI LEMAK AYAM BEREMPAH (RM6)
- NASI TOMATO BUDGET (RM6)
- KOREAN GARLIC CHEESE BUN (RM5)
- PIZZA PINTAL BUN (RM4)
- SAUSAGE ROLL (RM4)
- RED BEAN BUN (RM4)
- SWEET CHEESE BUN (RM4)
- SARDIN ROLL (RM1)
- SARDIN BREAD (RM1)
- BURGER MALAYSIA (RM1)
- ROJAK BUAH (RM5)
- CHEESE TART - 4PCS (RM5)
- KARIPAP (RM1)

KASIH IBU

- CHICKEN FRIED RICE (RM8)
- CHINESE-STYLED FRIED RICE (RM8)
- KAMPUNG FRIED RICE (RM8)
- TOMYUM FRIED RICE (RM9)
- LOKCING AYAM PULUT (RM1)
- LOKCING AYAM PULUT JUMBO (RM3)
- LOKCING AYAM CHEESE MINI (RM1)
- LOKCING AYAM CHEESE JUMBO (RM4)
- LOKCING AYAM SANDWICH (RM4)

BELLELICIOUS

- SPAGHETTI BOLOGNESE (RM10)
- SPAGHETTI CARBONARA (RM10)
- NACHOS (RM3)
- SAUSAGE (RM4)
- CHICKEN KARAGE (RM6)

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FOODTRUCK OBLONG SEMPOI

- BURGER TOK
  - CHICKEN (RM6)
  - BEEF (RM6)
  - LAMB (RM9)
- BURGER TOK CHEESE
  - CHICKEN (RM7)
  - BEEF (RM7)
- DOUBLE CHEESE BURGER
  - CHICKEN (RM11)
  - BEEF (RM11)
- KEBAB CAPPADOCIA
  - CHICKEN (RM10)
  - BEEF (RM10)
- OBLONG DAGING (RM8)

ABAHKOOL STATION

- ICED FLAVOURED LEMONADE
  - REGULAR (RM5)
  - LARGE (RM7)
- ICED FLAVOURED MOJITO
  - REGULAR (RM5)
  - LARGE (RM7)
- ICED CHOCOLATE
  - REGULAR (RM5)
  - LARGE (RM7)
- COCONUT SHAKE
  - REGULAR (RM7)
  - LARGE (RM9)
- MANGO SHAKE
  - REGULAR (RM7)
  - LARGE (RM9)
- ICED LEMON TEA
  - REGULAR (RM5)
  - LARGE (RM7)

MAKE U UP ENTERPRISE

- VANILLA CINNAMON COFFEE WITH STEVIA
  - HOT (RM5) , COLD (RM5)
- VEGE SEAFOOD TOFU (RM3)
- VEGE CRISPY PEPPER SAUSAGE (RM2)
- VEGE NASI LEMAK (RM6)
- VEGE KUEY TEOW (RM5)
- VEGE FRIED NOODLE (RM5)
- VEGE BEE HOON (RM5)
- VEGE BURGER (RM6)

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IAZ LEGACY ENTERPRISE

- MINI MOZZARELLA STICK
  - 1PC (RM4) , 3PCS (RM10)
- MINI CORNDOUGH CHEESE STICK
  - 1PC (RM4) , 3PCS (RM10)
- MASHED POTATO WITH MEATBALL - CHICKEN/BEEF (RM10)
- MAC & CHEESE WITH CHICKEN (RM10)

COFFEE RESCUE

- ESPRESSO
  - HOT (RM9) , COLD (RM10)
- LONG BLACK
  - HOT (RM9) , COLD (RM10)
- LATTE
  - HOT (RM11) , COLD (RM12)
- CAPPUCCINO
  - HOT (RM11) , COLD (RM12)
- FLAT WHITE
  - HOT (RM11) , COLD (RM12)
- MOJO CHOCOLATE
  - HOT (RM12) , (RM13)
- MOCHA
  - HOT (RM13) , (RM14)
- CHAI LATTE
  - HOT (RM12) , COLD (RM13)
- DIRTY CHAI
  - HOT (RM13) , COLD (RM14)
- MATCHA LATTE
  - HOT (RM13) , COLD (RM14)
- SALTED CARAMEL LATTE
  - HOT (RM13) , COLD (RM14)
- ICED LEMON TEA (RM5)
- ICED PEACH TEA (RM5)

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