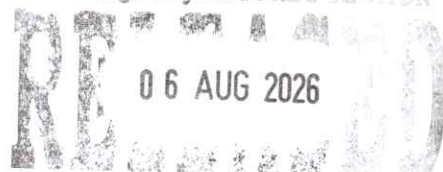




Republika ng Pilipinas
Kagawaran ng Edukasyon
REHIYON V (BIKOL)

TANGGAPANG PANSANGAY NG MGA PAARALAN NG LUNGSOD IRIGA

DEPARTMENT OF EDUCATION
SDO-Iriga City RECORDS SECTION



CTRL No.: 2026-08-096A J.

ADVISORY NO. 46, 2026
JULY 14, 2026

In compliance with DepEd Order (DO) No. 8, s. 2013 this advisory is issued not for endorsement per DO 28, s. 2021 but only for the information of DepEd officials, personnel/staff, as well as the concerned public.

“POWER FACTOR ROBOTICS TRAINING PROGRAMS AND ROBOTICS COMPETITIONS FOR EDUCATORS AND STUDENTS”

This is to inform all teachers, learners, and parents that **Power Factor Robotics** will conduct the following Robotics Training Programs and Competitions:

Schedule of Activities:

- **PowerFactor Robotics Training and Workshop**
 - **September 5, 2026**
 - **Venue:** Bicol University
- **PowerFactor Robotics Program for Schools**
 - **July to December 2026**
- **PowerFactor Robotics Competitions**
 - **September 15, 2026**

Interested teachers and learners who wish to participate may coordinate with the School Robotics Coordinator or the School Head.

For inquiries, please contact **Engr. PowerFactor Robotics** at **0928 721 9967** or **0917 134 3252**, or email pfactor90@gmail.com.

Participation in these activities is **purely voluntary** and shall not hinder the conduct of regular classes, in compliance with **DepEd Order No. 09, s. 2026** (Implementation of the Three-Term School Calendar in Basic Education), **DepEd Order No. 9, s. 2005** (Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith), and **DepEd Order No. 66, s. 2017** on the policy governing off-campus activities.

For the information and guidance of everyone concerned.

MRB

Digitally signed by Brioso
Maria-Magnolia Fajardo
Date: 2026.07.29 11:51:57
+08'00'

MARIA-MAGNOLIA F. BRIOSO, CESO VI
OIC, Schools Division Superintendent

for

mfj

[Signature]

Encls.:

As stated.



BAGONG PILIPINAS

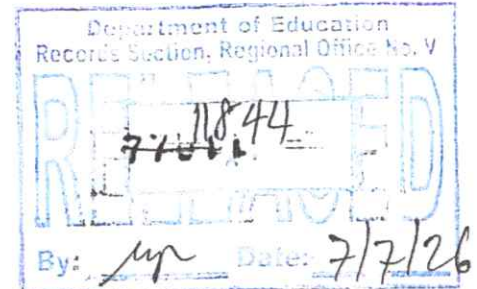


**IRIGA
SPRINGS**

Sa Serbisyang Tapat at Maagap,
Edukasyon ang Dekalidad!



Sto. Domingo, Lungsod Iriga
iriga.city@deped.gov.ph



ADVISORY No. 181 s. 2026
July 7, 2026

In compliance with DepEd Order (DO) No. 8, s. 2013
This advisory is issued not for endorsement per DO 28, s. 2001,
But only for the information of DepEd Officials,
Personnel/staff, as well as the concerned public

**POWERFACTOR ROBOTICS TRAINING PROGRAMS AND ROBOTICS
COMPETITIONS FOR EDUCATORS AND STUDENTS**

The PowerFactor Robotics will conduct the Robotics Training Program and Robotics Competitions on the following dates to wit:

- PowerFactor Robotics Training and Workshop for Educators
-September 5, 2026 at Bicol University, Legazpi City
- PowerFactor Robotics Program for Schools
-July to December, 2026
- PowerFactor Robotics Competitions
-September 15, 2026

These programs aim to enhance STEM education in schools, develop learners' programming competencies, encourage student participation in technology-driven activities, and provide professional development opportunities for educators.

For more information, please contact Engr. Nathaniel Ortiz at 0997 210 9967 / 0917 134 3252 or email pfactor90@gmail.com.

Participation of learners and teachers from public and private schools shall be purely voluntary and shall not hamper instructional time, in compliance with DepEd Order No. 09, s. 2026, titled *Guidelines on the Implementation of the Three-Term School Calendar in Basic Education*; DepEd Order No. 9, s. 2005, titled *Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith*; and the policy on off-campus activities stated in DepEd Order No. 66, s. 2017.



POWERFACTOR ROBOTICS

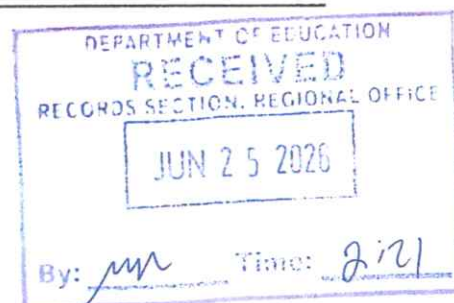
Powerfactor Natizane Review and Training Services OPC

SEC Registration: 2025080214524-28

pfactor90@gmail.com / 09972109967 / 09171343252

June 25, 2026

Dr. Gilbert T. Sadsad, CESO
Regional Director
Department of Education Region V (Bicol Region)
Regional Office V
Rawis, Legazpi City, Albay



Subject: Request for Endorsement and Authorization for Promotion of PowerFactor Robotics Training Programs and Robotics Competitions for Educators and Students at Elementary and Secondary Schools in the Bicol Region

Dear Dr. Sadsad:

Warm greetings!

PowerFactor Natizane Review and Training Services, through its educational technology division, PowerFactor Robotics, respectfully requests the endorsement and approval of our Robotics Training Programs and Robotics Competitions for dissemination and participation among schools within the Department of Education Region V.

PowerFactor Robotics is committed to supporting the Department of Education's vision of developing future-ready learners through Science, Technology, Engineering, and Mathematics (STEM) education. Our programs are designed to equip both educators and students with essential 21st-century competencies, including critical thinking, creativity, collaboration, communication, computational thinking, and technological literacy.

In line with the goals of the MATATAG Agenda and the integration of emerging technologies in education, we are proposing the implementation of the following initiatives:

1. **PowerFactor Robotics Training and Workshop for Educators- September 5, 2026, Sili Deli, Bicol University Student Union, Legazpi City**
 - Hands-on Robotics Training
 - Introduction to Robotics and Automation
 - Robot Assembly and Programming
 - Robotics Integration in Classroom Instruction
 - Industry 4.0 and Industry 5.0 Applications
2. **PowerFactor Robotics Programs for Schools- July to December 2026**
 - Robotics Explorer Program (16 Hours)
 - Robotics Foundation Program (32 Hours)
 - Robotics Innovation Program (96 Hours)
3. **PowerFactor Robotics Competitions- September 15, 2026, (Venue is still finalizing)**
 - Sumobot Competition
 - Line-Following Competition
 - Racing Competition
 - Soccerbot Competition

These programs aim to:

- Enhance STEM education in schools;
- Develop robotics and programming competencies among learners;
- Provide professional development opportunities for educators;



POWERFACTOR ROBOTICS

Powerfactor Natizane Review and Training Services OPC

SEC Registration: 2025080214524-28

pfactor90@gmail.com / 09972109967 / 09171343252

- Prepare learners for future careers in science, engineering, information technology, and automation.

We respectfully request the endorsement of the Department of Education Regional Office V to allow dissemination of our program information to Schools Division Offices, public and private schools, school heads, STEM coordinators, ICT coordinators, and teachers throughout the region.

Attached to this letter are the following documents for your evaluation:

1. PowerFactor Robotics Program Brochure
2. Robotics Training and Workshop Proposal
3. Robotics Competition Proposal

We assure your office that all activities will be conducted in accordance with DepEd policies, child protection standards, safety protocols, and educational quality requirements.

We believe that through this partnership, we can inspire more learners and educators to embrace innovation and contribute to the development of a technologically empowered and globally competitive generation.

We sincerely hope for your favorable consideration and endorsement of this initiative.

Thank you very much for your support of STEM education and innovation in the Bicol Region.

Respectfully yours,

ENGR. NATANAEL B. ORTIZ

CEO/Owner

PowerFactor Robotics

PowerFactor Natizane Review and Training Services

Contact Number: 09972109967/09171343252

Email Address: pfactor90@gmail.com



POWERFACTOR
— ROBOTICS —

POWERFACTOR ROBOTICS COMPETITIONS



SEPTEMBER 15, 2026



VENUE: WITHIN ALBAY
(EXACT LOCATION TO BE ANNOUNCED SOON)



**OPEN FROM
ELEMENTARY
TO COLLEGE
STUDENTS**

CATEGORY A



**SUMOBOT
COMPETITION**

P1500

2 PAX
+ 1 COACH

CATEGORY B



**LINE-FOLLOWING
COMPETITION**

P1500

2 PAX
+ 1 COACH

CATEGORY C



**RACING
COMPETITION**

P1500

2 PAX
+ 1 COACH

CATEGORY D



**SOCCERBOT
COMPETITION**

P2000

3 PAX
+ 1 COACH



**FOODS/SNACKS
NOT INCLUDED**



**CERTIFICATES
FOR PARTICIPANTS**



**CERTIFICATES,
TROPHIES AND MEDALS
FOR THE WINNERS**

BUILD. COMPETE. INSPIRE.
UNLEASH YOUR POTENTIAL. ENGINEER THE FUTURE.

TEAMWORK • INNOVATION • CREATIVITY

ABOUT POWERFACTOR ROBOTICS

PowerFactor Robotics by Powerfactor Natizane Review and Training Services with SEC Registration 2025080214524-28 is a premier training and innovation hub dedicated to empowering learners, educators, and professionals through cutting-edge technologies. We provide comprehensive trainings, hands-on workshops, and exciting competitions in the fields of Robotics, Mechatronics, Artificial Intelligence (AI), Internet of Things (IoT), Industrialization, Automation, and other Engineering-related disciplines.

Our mission is to bridge the gap between theoretical knowledge and industry practice by equipping participants with the technical skills, creativity, and problem-solving abilities needed in the era of Industry 4.0. Through experiential learning, real-world projects, and expert-led instruction, PowerFactor Robotics inspires future innovators, engineers, and technology leaders to learn, build, compete, and innovate.

At PowerFactor Robotics, we are committed to shaping the next generation of technologically competent and globally competitive professionals through transformative learning experiences and industry-relevant programs.

PROPOSAL



RATIONALE

The PowerFactor Robotics Competition 2026 is a robotics event designed to inspire innovation, creativity, teamwork, and engineering excellence among students from elementary to college levels. The competition aims to provide participants with hands-on experience in robotics design, programming, problem-solving, and collaborative project development.

The event will gather students, coaches, educators, technology enthusiasts, and industry partners in a competitive yet educational environment that promotes STEM (Science, Technology, Engineering, and Mathematics) learning and technological advancement.

Theme:



OBJECTIVES

General Objective

To promote robotics education and innovation by providing a platform where students can showcase their technical skills and compete in robotics challenges.

Specific Objectives

- Encourage interest in STEM-related fields.
- Develop critical thinking and problem-solving skills.
- Foster teamwork and leadership among participants.
- Provide exposure to robotics and automation technologies.
- Build connections between students, educators, and industry professionals.
- Identify and recognize outstanding robotics talents.

TELIGIBLE PARTICIPANTS

- Open to Elementary, Junior High School, Senior High School, and College students.
- Participants must present valid school identification.

COMPETITION CATERGORIES AND MECHANICS

✓ Category A – Sumobot Competition

Registration Fee: **₱1,500/team**

Team Composition:

- 2 Participants
- 1 Coach
-

Objective:

Robots compete inside a circular arena and attempt to push opponents out of the ring.

Skills Developed:

- Mechanical Design
- Strategy Development
- Autonomous Control

Robot Specifications

- Maximum dimensions: 20 cm × 20 cm at inspection
- Maximum weight: 3 kg
- Remote-Controlled (RC)
- Any microcontroller platform allowed
- Expansion after start is permitted
- No hazardous mechanisms
- Competition Arena

Competition Arena

- Circular ring
- Diameter: 154 cm
- Black surface
- White boundary line: 5 cm

Match Format

- Best-of-Three rounds
- Round duration: 2 minutes

Rules

1. Robots start behind designated lines.
2. Referee signals the start of the match.
3. Drivers may control robots only after the start signal.
4. A robot loses the round when any part touches outside the ring.
5. If neither robot is eliminated within 2 minutes, judges determine the winner based on aggression, control, and ring dominance.

Prohibited

- Sharp blades
- Fire, liquids, or projectiles
- Intentional damage to opponents
- Wireless interference devices

WINNER: The team that remains undefeated and wins the Championship Match

✓ **Category B – Line-Following Competition**

Registration Fee: **₱1,500/team**

Team Composition:

- 2 Participants
- 1 Coach
-

Objective:

Robots navigate a predefined track following a line as quickly and accurately as possible.

Skills Developed:

- Sensor Integration
- Programming Logic
- Optimization Techniques

Robot Specifications

- Maximum dimensions: 25 cm × 25 cm
- Maximum weight: 3 kg
- Fully Autonomous
- No remote-control operation during the run

Track Features

- Black line on white surface
- Curves and sharp turns
- Intersections
- Zigzag sections

Competition Format

- Two official runs
- Best time recorded

Rules

1. Robot starts at designated starting area.
2. Once activated, no physical or wireless intervention is allowed.
3. Robot must follow the line independently.
4. Timing stops when robot crosses the finish line.

Penalties

Violation	Penalty
Leaves track	+5 seconds
Manual intervention	Run invalid
Failure to finish	Maximum time

Winning Condition- The team with the fastest official time wins.

✓ **Category C-Racing Competition**

Registration Fee: **₱1,500/team**

Team Composition:

- 2 Participants
- 1 Coach
-

Objective:

Robots race through a designated course while maintaining speed and control.

Skills Developed:

- Speed Engineering
- Vehicle Dynamics
- Precision Control

Robot Specifications

- Maximum size: 30 cm x 30 cm
- Maximum weight: 3 kg
- Remote Controlled

Race Track

- Multiple turns
- Straight acceleration sections
- Lane markers
- Possible ramps and obstacles

Competition Rules

1. Robots start simultaneously or individually.
2. Timing starts at the signal.
3. Robot must remain within track boundaries.
4. Any collision caused intentionally may result in penalties.
5. Teams are allowed two official runs.
6. Maximum time in each competition is 3 mins only.

Scoring

- Fastest recorded time wins.

Penalties

Violation	Penalty
Leaving track	+3 seconds
Missing checkpoint	+5 seconds

Winning Condition- The team with the fastest official time wins.

✓ **Category D-SoccerBot Competition**

Registration Fee- **₱2,000/team**

Team Composition:

- 3 Participants
- 1 Coach

Objective:

Robots compete in a soccer-style game, demonstrating teamwork and autonomous operation.

Skills Developed:

- Multi-Robot Coordination
- Strategic Planning
- Real-Time Decision Making

Robot Specifications

- Maximum dimensions: 25 cm x 25 cm x 25 cm
- Maximum weight: 3 kg
- Remote-controlled



Playing Field

- Artificial turf or carpet surface
- Goal area on both ends
- Standard soccer ball designated by organizers

Match Duration

- Two halves of 5 minutes
- 2-minute halftime

Competition Rules

1. Teams start from designated positions.
2. Robots may push, dribble, or maneuver the ball.
3. Physical contact between robots is allowed within reasonable limits.
4. Deliberate ramming or damaging actions are prohibited.
5. The referee's decision is final.

Scoring

- Goal scored = 1 point

Fouls

- Blocking inside goal area for excessive time
- Deliberate robot damage
- Unsportsmanlike conduct
- Manual interference during play

Penalties

- Warning
- Free kick
- Goal awarded
- Match disqualification

Winning Condition

The team with the highest score at the end of regulation time wins.

SAFETY

- All robots must pass technical inspection.
- Batteries must be safely enclosed.
- Sharp edges and hazardous components are prohibited.

TECHNICAL INSPECTION

- Conducted before competition.
- Non-compliant robots must be modified before participation.



TENTATIVE PROGRAM FLOW

TIME	ACTIVITIES
7:30 AM – 8:00 AM	Registration
8:00 AM – 8:30 AM	Opening Program
8:30 AM – 9:00 AM	Rules Briefing and Final Checking of Robotics
9:00 AM – 12:00 AM	Competition Proper
12:00–1:00 PM	Lunch Break
1:00 PM – 3:00 PM	Continuation of Competition
3:00 PM –4:00 PM	Finals Round
4:00 PM – 5:00 PM	Certificate Awarding and Closing Program

AWARDS

- 🏆 Champion Trophy
- 🥇 Gold Medal
- 🥈 Silver Medal
- 🥉 Bronze Medal
- 📜 Certificates for Participants

ORGANIZER'S RIGHTS

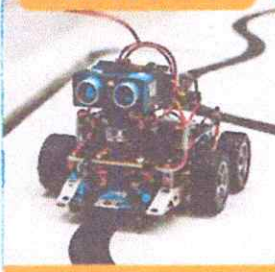
PowerFactor Robotics reserves the right to modify rules, schedules, and competition formats when necessary to ensure fairness, safety, and successful event execution.

Recommendation: Use standard educational robotics kits (Arduino, ESP32, STM32, Raspberry Pi Pico, LEGO, VEX, or similar platforms) so that elementary through college students can compete fairly and affordably.

SPORTSMANSHIP

- Respect officials, judges, and fellow competitors.
- Unsportsmanlike behavior may result in disqualification.

REGISTRATION FEES

CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D
			
SUMOBOT COMPETITION	LINE-FOLLOWING COMPETITION	RACING COMPETITION	SOCCERBOT COMPETITION
P1500	P1500	P1500	P2000
2 PAX + 1 COACH	2 PAX + 1 COACH	2 PAX + 1 COACH	3 PAX + 1 COACH

REGISTRATION METHOD

Step 1: Complete the Registration Form

Fill out the registration form through the provided link or scan the official QR code.

Step 2: Settle the Registration Fee

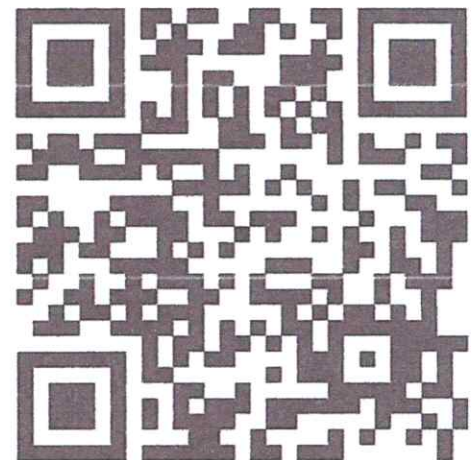
Pay the corresponding registration fee via GCash or BDO Bank Transfer using the payment details indicated in the registration form.

Step 3: Wait for Confirmation

After submitting your registration and proof of payment, kindly wait for the official email containing:

- ✓ Payment Verification
- ✓ Registration Confirmation
- ✓ Workshop Details and Reminders

Once you receive the confirmation email, your slot is officially secured and you are ready to participate in the training workshop.



<https://forms.gle/PKZxp2qABgSxHyrh8>

REGISTRATION DEADLINE: 17 August 30, 2026

CONTACT INFORMATION:

ENGR. NATANAEL B. ORTIZ- (CEO/OWNER) - 09972109967 / 09171343252

Email: pfactor90@gmail.com

Facebook page: Powerfactor Robotics - <https://www.facebook.com/Powerfactorrobotics/>



POWER FACTOR — ROBOTICS —

BUILD. LEARN. INNOVATE.
LEAD THE FUTURE.

STEM EDUCATION
FOR THE NEXT GENERATION



POWERFACTOR ROBOTICS TRAINING AND WORKSHOP FOR EDUCATORS

Empowering Educators. Inspiring Innovators. Building the Future.

September 5, 2026 | 8-5pm

Sili Deli, Bicol University Student Union Center,
Legazpi City, Albay

PROGRAM INCLUSIONS:

- 1-Day Intensive Hands-on Robotics Workshop
- Robotics Kits (Category A Participants Only)
- Digital Learning Modules (E-Copy)
- Meals and Snacks (for On-site Participants)
- Certificate of Completion

PROGRAM DESCRIPTION:

This specialized training program is designed for educators who aspire to integrate technology and emerging technology into their teaching practices. Participants will gain a comprehensive understanding of programming and troubleshooting robotic hardware and software systems. Through hands-on activities and expert-led sessions, educators will acquire the knowledge and skills necessary to guide and mentor students in building their own robots, fostering creativity, innovation, and problem-solving skills aligned with the demands of Industry 4.0.

EQUIP YOURSELF.
EMPOWER YOUR STUDENTS.
BUILD THE FUTURE TOGETHER.



HANDS-ON
LEARNING



INNOVATIVE
TEACHING



BUILD CODE
INSPIRE



PREPARE STUDENTS
FOR INDUSTRY 4.0



CREATE IMPACT
IN YOUR
CLASSROOM

DEADLINE OF REGISTRATION: AUGUST 15, 2026

REGISTRATION:



CATEGORY A

ONSITE

Php 4,500

(Robotics Kit, E-Modules,
Meals, Certificate of Completion)



CATEGORY B

ONSITE

Php 2,000

(E-Modules, Meals,
Certificate of Completion)



CATEGORY C

ONLINE

Php 500

(E-Modules,
Certificate of Completion)

LIMITED
SLOTS
ONLY!



LEARN. BUILD. INSPIRE.
Transform your teaching.
Empower the future.



BE A CHAMPION
FOR INNOVATION
Start the change in your classroom today!



RESERVE YOUR SLOT NOW!
Invest in yourself.
Inspire generations.

ABOUT POWERFACTOR ROBOTICS

PowerFactor Robotics by Powerfactor Natizane Review and Training Services with SEC Registration 2025080214524-28 is a premier training and innovation hub dedicated to empowering learners, educators, and professionals through cutting-edge technologies. We provide comprehensive trainings, hands-on workshops, and exciting competitions in the fields of Robotics, Mechatronics, Artificial Intelligence (AI), Internet of Things (IoT), Industrialization, Automation, and other Engineering-related disciplines.

Our mission is to bridge the gap between theoretical knowledge and industry practice by equipping participants with the technical skills, creativity, and problem-solving abilities needed in the era of Industry 4.0. Through experiential learning, real-world projects, and expert-led instruction, PowerFactor Robotics inspires future innovators, engineers, and technology leaders to learn, build, compete, and innovate.

At PowerFactor Robotics, we are committed to shaping the next generation of technologically competent and globally competitive professionals through transformative learning experiences and industry-relevant programs.

PROPOSAL



POWERFACTOR
-ROBOTICS-

POWERFACTOR ROBOTICS

TRAINING AND WORKSHOP FOR EDUCATORS

Empowering Educators. Inspiring Innovators. Building the Future.

📅 September 5, 2026	🕒 8-5pm
📍 Sili Deli, Bicol University Student Union Center, Legazpi City, Albay	



RATIONALE

The rapid advancement of technology and the emergence of Industry 4.0 have transformed the educational landscape, requiring educators to adopt innovative teaching approaches that develop learners' critical thinking, creativity, collaboration, and problem-solving skills.

Robotics education has become an effective platform for integrating Science, Technology, Engineering, and Mathematics (STEM) concepts into meaningful and engaging learning experiences. Through robotics, students learn by doing, allowing them to apply theoretical concepts to real-world challenges while developing essential 21st-century skills.

To support educators in this transition, PowerFactor Robotics offers a specialized training program designed to equip teachers with practical knowledge and hands-on experience in robotics design, assembly, programming, and troubleshooting. This workshop aims to empower educators to confidently integrate robotics into their classrooms and establish robotics programs within their respective schools.



OBJECTIVES

At the end of the training, participants shall be able to:

1. Understand the fundamentals of robotics and its applications in education and industry.
2. Identify and explain the functions of major robotic components including sensors, actuators, controllers, and power systems.
3. Assemble and configure a functional educational robot.
4. Apply basic programming concepts for robot operation and control.
5. Troubleshoot common hardware and software issues encountered in robotics projects.
6. Design classroom-based robotics activities aligned with STEM education.
7. Develop strategies for mentoring students in robotics projects and competitions.
8. Integrate robotics and emerging technologies into innovative teaching practices.

PROGRAM DESCRIPTION

This specialized training program is designed exclusively for educators who aspire to integrate robotics and emerging technologies into their teaching practices. Participants will gain practical experience in designing, assembling, programming, and troubleshooting robotic systems.

Through hands-on activities and expert-led sessions, educators will acquire the knowledge and skills necessary to guide and mentor students in building their own robots, fostering creativity, innovation, critical thinking, and problem-solving skills aligned with the demands of Industry 4.0.

TARGET PARTICIPANTS

The program is open to:

- Elementary Teachers
- Junior High School Teachers
- Senior High School Teachers
- STEM Coordinators
- ICT Teachers
- TLE Teachers
- Engineering and Technology Instructors
- School Administrators
- Robotics Club Advisers
- Academic Coordinators

PROGRAM INCLUSIONS

✓ **Category A – Onsite with Robotics Kit**

Registration Fee: **Php 4,500 (LIMITED SLOTS ONLY)**

Inclusions:

- 1-Day Intensive Hands-on Robotics Workshop
- Individual Robotics Kit
- Digital Learning Modules (E-Copy)
- Meals and Snacks
- Certificate of Completion
- Hands-on Programming Activities
- Robot Assembly and Testing Activities

✓ **Category B – Onsite without Robotics Kit**

Registration Fee: **Php 2,000 (LIMITED SLOTS ONLY)**

Inclusions:

- 1-Day Intensive Hands-on Robotics Workshop
- Shared Robotics Kit during Workshop
- Digital Learning Modules (E-Copy)
- Meals and Snacks
- Certificate of Completion

✓ **Category C – Online Participation**

Registration Fee: **Php 500**

Inclusions:

- Live Online Training Sessions
- Digital Learning Modules (E-Copy)
- Certificate of Completion
- Access to Online Demonstrations

TRAINING MODULES

Module 1: Introduction to Robotics and Industry 4.0

- Robotics Fundamentals
- Robotics Applications in Education and Industry
- STEM and Robotics Integration
- Future Trends in Robotics

Module 2: Robotics Components and Systems

- Controllers and Microcontrollers
- Sensors and Actuators
- Power Systems
- Electronic Components

Module 3: Robot Assembly Workshop

- Mechanical Assembly
- Wiring and Connections
- System Integration
- Safety Procedures

Module 4: Robotics Programming Fundamentals

- Logic and Computational Thinking
- Programming Basics
- Robot Movement Control
- Sensor-Based Programming

Module 5: Troubleshooting and Testing

- Hardware Diagnostics
- Software Debugging
- Calibration and Optimization
- Performance Evaluation

Module 6: Robotics in Education

- Developing Robotics Activities
- Robotics-Based Project Learning
- Organizing School Robotics Programs
- Preparing Students for Competitions

TENTATIVE PROGRAM FLOW

TIME	ACTIVITIES
7:30 AM – 8:00 AM	Registration
8:00 AM – 8:30 AM	Opening Program
8:30 AM – 9:00 AM	Module 1: Introduction to Robotics and Industry 4.0
9:00 AM – 9:30 AM	Module 2: Robotics Components and Systems
9:30 AM – 12:00 NN	Module 3: Robot Assembly Workshop
1:00 PM – 2:00 PM	Module 4: Robotics Programming Fundamentals
2:00 PM – 4:00 PM	Module 5: Testing, Troubleshooting, and Robotics Challenge
4:00 PM – 4:30 PM	Module 6: Robotics in Education
4:30 PM – 5:00 PM	Certificate Awarding and Closing Program

REGISTRATION FEES

Category	Registration Fee	Inclusions
Category A	Php 4,500	Robotics Kit, E-Modules, Meals, Certificate
Category B	Php 2,000	E-Modules, Meals, Certificate
Category C	Php 500	E-Modules, Certificate

REGISTRATION METHOD

Step 1: Complete the Registration Form

Fill out the registration form through the provided link or scan the official QR code.

Step 2: Settle the Registration Fee

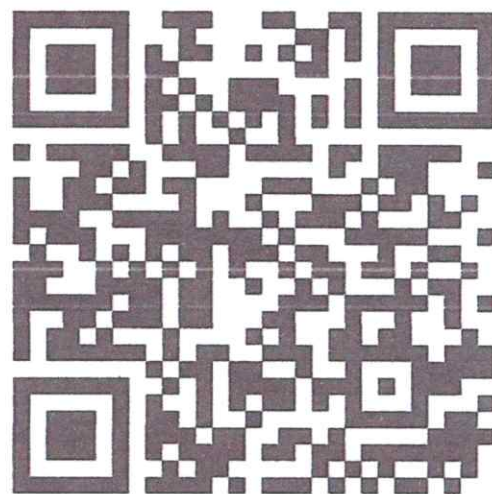
Pay the corresponding registration fee via GCash or BDO Bank Transfer using the payment details indicated in the registration form.

Step 3: Wait for Confirmation

After submitting your registration and proof of payment, kindly wait for the official email containing:

- ✓ Payment Verification
- ✓ Registration Confirmation
- ✓ Workshop Details and Reminders

Once you receive the confirmation email, your slot is officially secured and you are ready to participate in the training workshop.



<https://forms.gle/XjhY8nei9JSNcvZWA>

REGISTRATION DEADLINE: 17 August 15, 2026

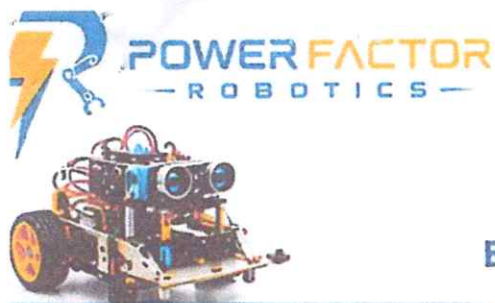
! Limited Slots Available. Registration will close once all slots are filled.

CONTACT INFORMATION:

ENGR. NATANAEL B. ORTIZ - (CEO/OWNER) - 09972109967/09171343252

Email: pfactor90@gmail.com

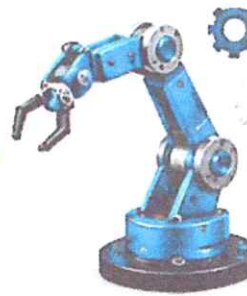
Facebook page: Powerfactor Robotics - <https://www.facebook.com/Powerfactorrobotics/>



ROBOTICS

PROGRAM FOR SCHOOLS

BUILD. LEARN. INNOVATE. LEAD THE FUTURE.



1 POWERFACTOR ROBOTICS EXPLORER PROGRAM

(16 HRS TRAINING)

₹2,500
PER MODULE PER STUDENT
2 MODULES (16 HRS)

INCLUSIONS

- ✓ 2-day face-to-face robotics workshop (8 hours per day)
- ✓ Robotics kit and materials during training
- ✓ Introduction to robotics and automation
- ✓ Hands-on robot assembly activities
- ✓ Basic programming activities
- ✓ Team challenge and competition
- ✓ Training manual/module
- ✓ Certificate of Completion
- ✓ Trainer and facilitator support

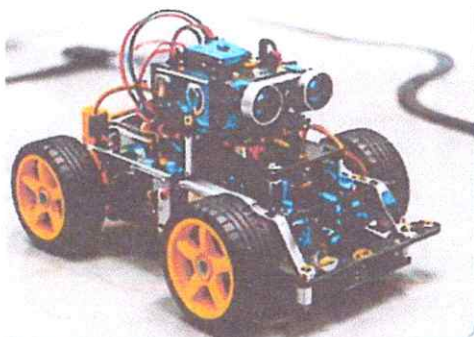
MODULES

DAY 1

- Introduction to Robotics
- Robotics Applications in Industry 4.0 and Industry 5.0
- Basic Electronics and Sensors
- Robot Assembly Workshop

DAY 2

- Introduction to Programming
- Robot Control and Movement
- Robotics Challenge
- Presentation and Awarding



2 POWERFACTOR ROBOTICS FOUNDATION PROGRAM

(32 HRS TRAINING)

₹2,000
PER MODULE PER STUDENT
4 MODULES (32 HRS)

INCLUSIONS

- ✓ 4 weekly sessions (8 training hours per day)
- ✓ Robotics training kit (shared or individual)
- ✓ Programming software access
- ✓ Robotics learning modules
- ✓ Weekly assessments
- ✓ Mentor consultation sessions
- ✓ Robotics mini-project
- ✓ Certificate of Completion
- ✓ Robotics competition day

MODULES

WEEK 1: ROBOTICS FUNDAMENTALS

- Introduction to Robotics
- Safety Procedures
- Components of a Robot
- Electronics Basics

WEEK 2: PROGRAMMING FUNDAMENTALS

- Computational Thinking
- Block-Based Programming
- Sensor Integration
- Troubleshooting

WEEK 3: ROBOT DESIGN AND DEVELOPMENT

- Mechanical Design Concepts
- Robot Assembly
- Actuator Control
- Autonomous Navigation

WEEK 4: ROBOTICS PROJECT

- Team-Based Robotics Project
- Project Documentation
- Robotics Competition
- Presentation and Evaluation



3 POWERFACTOR ROBOTICS INNOVATION PROGRAM

(96 HRS TRAINING)

₹1,700
PER MODULE PER STUDENT
12 MODULES (96 HRS)

INCLUSIONS

- ✓ 12-week comprehensive robotics training
- ✓ Individual or group robotics kits
- ✓ Programming software and resources
- ✓ Printed and digital modules
- ✓ Weekly laboratory sessions
- ✓ Mentorship from robotics engineers
- ✓ Capstone robotics project
- ✓ Robotics competition participation
- ✓ Certificate of Completion
- ✓ Certificate of Competency
- ✓ Parent and School Showcase Event

MODULES

MONTH 1: ROBOTICS FUNDAMENTALS

- Introduction to Robotics and Automation
- Electronics and Circuit Fundamentals
- Sensors and Actuators
- Engineering Design Process
- Robot Assembly Techniques

MONTH 2: PROGRAMMING AND CONTROL SYSTEMS

- Programming Logic
- Arduino Fundamentals
- Sensor Programming
- Motor Control
- Wireless Communication
- Troubleshooting and Debugging

MONTH 3: ADVANCED ROBOTICS AND INNOVATION

- Autonomous Robotics
- IoT and Smart Systems
- AI Concepts in Robotics
- Robotics Project Development
- Capstone Project Implementation
- Robotics Competition and Exhibition

EXPECTED OUTPUTS

- Functional Mobile Robot
- Team Robotics Project
- Project Documentation
- Innovation Pitch Presentation
- Robotics Competition Participation

TARGET PARTICIPANTS