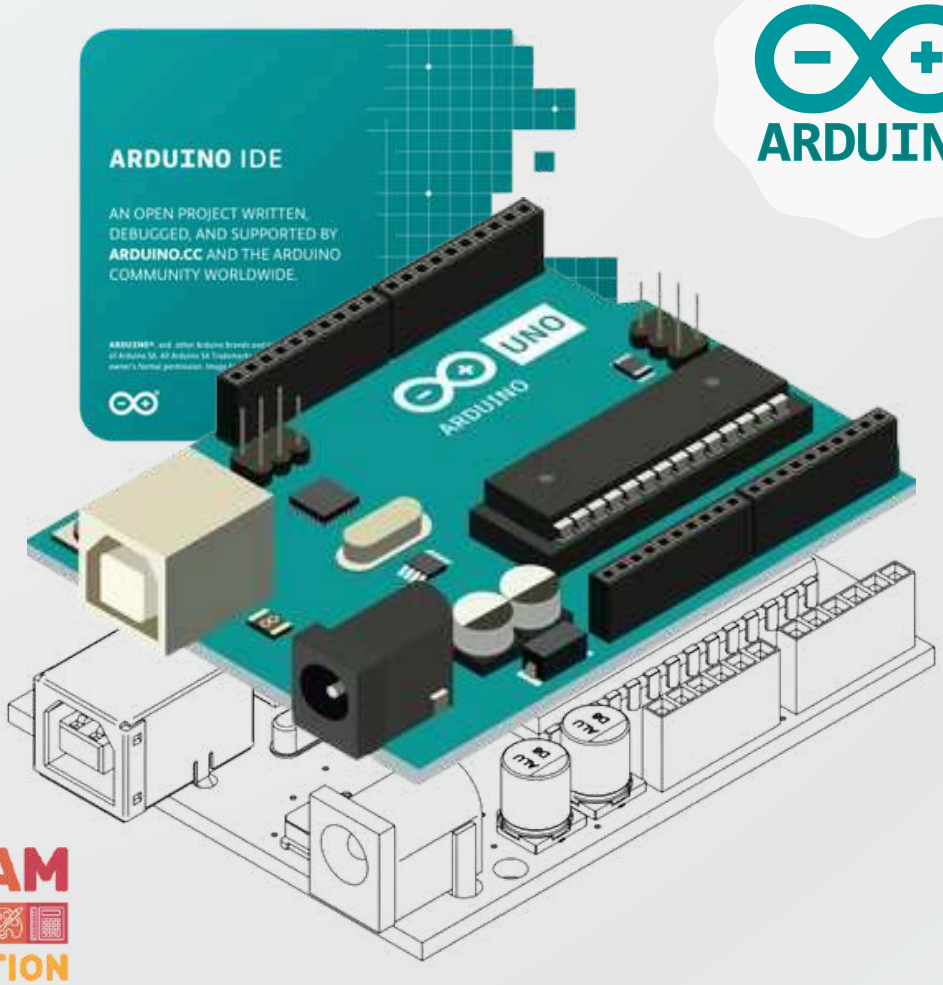
MECHATRONIX INSTITUTE
FOR ROBOTIC ENGINEERING

Sri Lanka's Best Robotic Engineering Course, Integrating STEAM, Machine Learning, ICT and Artificial Intelligence

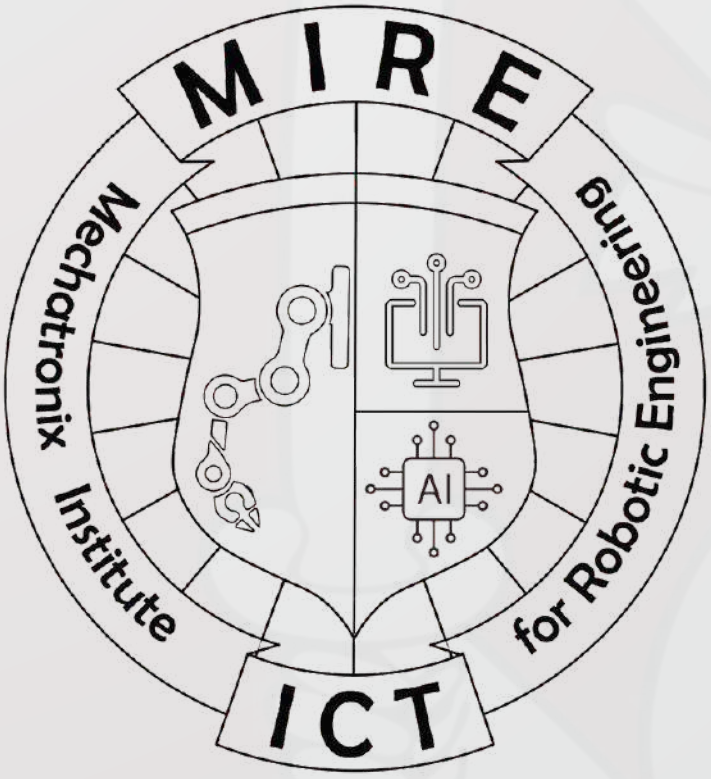


ARDUINO

STEAM EDUCATION

MIRE.LK

STUDENT HANDBOOK



MIRE.LK

MECHATRONIX INSTITUTE FOR RROBOTIC ENGINEERING

INDEX

01 About

02 Our History and Vision

03 Mission

04 Campus-life Welcome Message

05 Academic Excellence and Innovative Curriculum

06 Faculty and Research

07 Community and Industry Partnerships

08 Commitment to Sustainability

09 A Bright Future
10 Academic Programs
11 Admission Requirements
12 Student Code of Conduct
13 Academic Guidelines
14 Campus Facilities and Resources
15 Health and Safety Guidelines
16 Extracurricular Activities
17 Student Portal
18 Contact Information

01 About Us

The Mechatronix Institute for Robotic Engineering stands as a beacon of excellence in the realm of technological education and innovation. Situated in the heart of Sri Lanka, our institute is committed to advancing knowledge and fostering cutting-edge developments in **robotics, artificial intelligence (AI), information and communication technology (ICT), and emerging technologies**. Our mission is to create an environment where curiosity, creativity, and critical thinking flourish, preparing our students to become leaders and pioneers in their respective fields.

At the core of **Mechatronix Institute** is our dedication to providing a comprehensive **STEAM (Science, Technology, Engineering, Arts, Mathematics)** education. We believe that the integration of these disciplines is essential for developing the interdisciplinary skills necessary to navigate and excel in today's rapidly evolving technological landscape. By incorporating the arts into our curriculum, we emphasize the importance of creativity and innovation alongside technical proficiency, ensuring our students are well-rounded and adaptable.

02 Our History and Vision

Mechatronix Institute was founded with the vision of bridging the gap between theoretical knowledge and practical application. Recognizing the growing importance of robotics and AI in modern society, our founders envisioned an institution that would not only impart technical skills but also inspire a spirit of innovation and exploration. Over the years, we have grown into a leading educational institution, known for our rigorous academic programs, state-of-the-art facilities, and a faculty comprising experts from around the world.

Our vision is to be a global leader in robotic engineering education, shaping the future by empowering the next generation of engineers and technologists. We strive to foster a culture of excellence, where students are encouraged to push the boundaries of what is possible and make significant contributions to the technological advancements that drive our world forward.

03 Mission

- At Mechatronix Institute for Robotic Engineering, our mission is to provide world-class education and training in robotics, artificial intelligence, and information and communication technologies. We are committed to:
- Educational Excellence: Providing a comprehensive curriculum that combines theoretical knowledge with hands-on, hands-on experience to equip students with the skills needed to excel in the rapidly evolving technology landscape.
- Innovation and Research: Foster a culture of innovation and encourage ground-breaking research that addresses real-world challenges and contributes to technological advancement.
- Industry Collaboration: Build strong partnerships with industry leaders and organizations to ensure our programs align with current market needs and future trends and provide students with opportunities for internships and real-world project experience.
- Community Engagement: Engage with the local and global community to promote STEAM education and awareness, and spark interest in robotics and technology among diverse populations.
- Sustainable Development: Integrating sustainable practices into our teaching and research to prepare our students to contribute positively to society and the environment and to become responsible global citizens.
- Lifelong Learning: Support continuous learning and professional development through advanced courses, workshops and seminars to help professionals stay ahead in their careers and adapt to technological changes.
- By achieving these goals, we aim to create a dynamic and inclusive learning environment that fosters creativity, critical thinking and problem-solving skills.

04 Campus-Life Welcome Message

Welcome to the MIRE We are thrilled to have you join our vibrant and dynamic community of learners, innovators, and future leaders. As you embark on this exciting journey, you are stepping into an institution dedicated to excellence, innovation, and the transformative power of education in the fields of robotics, artificial intelligence, information and communication technology (ICT), and emerging technologies.

At Mechatronix Institute, we believe in the potential of every student to make significant contributions to the world. Our commitment is to provide a nurturing and stimulating environment where you can thrive both academically and personally. Our state-of-the-art facilities, cutting-edge technology, and expert faculty are all geared towards offering you a world-class education that prepares you to tackle real-world challenges and drive technological advancements.

Our curriculum is designed to be comprehensive and interdisciplinary, reflecting the multifaceted nature of the technological landscape. Through a STEAM (Science, Technology, Engineering, Arts, Mathematics) approach, we ensure that you gain not only technical expertise but also the creative and critical thinking skills necessary to innovate and lead in an ever-evolving world.
You will have the opportunity to engage in hands-on learning experiences, collaborative projects, and research initiatives that push the boundaries of what is possible. Our faculty, who are leaders in their respective fields, are dedicated to mentoring and guiding you through every step of your academic journey. They bring a wealth of knowledge, industry experience, and a passion for teaching that will inspire and motivate you.

Beyond the classroom, Mechatronix Institute offers a rich array of extracurricular activities, student organizations, and community engagement opportunities. We encourage you to participate in these activities as they are integral to your personal growth and development. Whether it's joining the Robotics Club, contributing to community tech projects, or attending industry seminars and workshops, these experiences will help you build a well-rounded skill set and a strong professional network.

We also understand the importance of support and well-being in your academic success. Our student support services, including academic advising, counseling, and career services, are available to assist you in navigating any challenges you may encounter. We are here to help you achieve your goals and reach your full potential.

At Mechatronix Institute, we are committed to fostering a culture of respect, inclusivity, and integrity. We value the diverse backgrounds and perspectives that each student brings to our community. It is through this diversity that we can achieve greater innovation and understanding, preparing you to become a global citizen who can make a positive impact in the world.

As you begin your journey with us, remember that you are not alone. You are part of a supportive and collaborative community that is dedicated to your success. We encourage you to take full advantage of the resources and opportunities available to you, to be curious and proactive in your learning, and to strive for excellence in all that you do.

Welcome to Mechatronix Institute for Robotic Engineering. We are excited to see what you will achieve and look forward to supporting you every step of the way. Here's to a journey filled with discovery, innovation, and success!

05 Academic Excellence and Innovative Curriculum

Our academic programs are meticulously designed to provide students with a deep understanding of the fundamental principles of robotics, AI, ICT, and emerging technologies. We offer a range of undergraduate and postgraduate programs, each tailored to meet the demands of the industry and the aspirations of our students. Our curriculum is constantly updated to reflect the latest advancements in technology, ensuring that our students are always at the forefront of their fields.

In addition to traditional classroom learning, we emphasize hands-on experience and practical application. Our state-of-the-art laboratories and research facilities provide students with the opportunity to work on real-world projects, engage in cutting-edge research, and develop innovative solutions to complex problems. By combining theoretical knowledge with practical skills, we prepare our students to tackle the challenges of the future with confidence and competence.

06 Faculty and Research

Our faculty members are not only educators but also innovators and leaders in their respective fields. They bring a wealth of knowledge and experience to the classroom, offering students unique insights into the latest trends and developments in robotics, AI, and technology. Their dedication to teaching is matched by their commitment to research, and many of our faculty members are involved in groundbreaking research projects that have a significant impact on the industry and society.

At Mechatronix Institute, research is a cornerstone of our educational philosophy. We encourage our students to engage in research activities, providing them with the resources and support they need to explore new ideas and make discoveries. Our research initiatives span a wide range of areas, from autonomous systems and machine learning to cybersecurity and the Internet of Things (IoT). By fostering a culture of innovation and discovery, we aim to contribute to the advancement of technology and improve the quality of life for people around the world.

Faculty of Web Engineering

Faculty of Robotics Engineering

Faculty of Computer Science

07 Community and Industry Partnerships

We believe that education extends beyond the classroom, and we are committed to building strong connections with the industry and the community. Our partnerships with leading technology companies, research institutions, and industry organizations provide our students with valuable opportunities for internships, collaborative projects, and career placements. These partnerships also ensure that our curriculum remains relevant and aligned with the needs of the industry, preparing our graduates for successful careers in their chosen fields.

Community engagement is also a vital aspect of our mission. We actively participate in outreach programs, workshops, and events that promote STEM (Science, Technology, Engineering, Mathematics) education and inspire the next generation of innovators. By working closely with schools, community organizations, and government agencies, we aim to make a positive impact on society and contribute to the development of a technologically literate and empowered population.

08 Commitment to Sustainability

At Mechatronix Institute, we are dedicated to promoting sustainable practices and technologies. Our commitment to sustainability is reflected in our curriculum, research initiatives, and campus operations. We strive to equip our students with the knowledge and skills needed to develop sustainable solutions and address the global challenges of climate change, resource depletion, and environmental degradation. Through our efforts, we aim to create a more sustainable and equitable future for all.

09 A Bright Future

As we look to the future, we remain steadfast in our commitment to excellence, innovation, and the pursuit of knowledge. The Mechatronix Institute for Robotic Engineering is more than just a place of learning; it is a community of thinkers, creators, and leaders dedicated to making a difference in the world. We invite you to join us on this exciting journey and become part of a legacy of innovation and excellence.

Welcome to Mechatronix Institute for Robotic Engineering, where the future is being built today.

10 Academic Programs

At the Mechatronix Institute for Robotic Engineering, we offer a range of comprehensive academic programs designed to equip students with the knowledge and skills required to excel in the ever-evolving fields of robotics, artificial intelligence, information and communication technology (ICT), and emerging technologies. Each program is meticulously structured to provide both theoretical foundations and practical experience, ensuring our graduates are well-prepared to meet the demands of the industry and drive technological innovation.

Robotics Engineering

Our Robotics Engineering program is at the forefront of technological education, focusing on the design, construction, and operation of robots. This program provides an in-depth understanding of mechanical design, control systems, and programming, with a special emphasis on hands-on learning and real-world applications.

Key Components:

Mechanical Design: Students will learn the principles of mechanical engineering, including kinematics, dynamics, and materials science. They will design and build robotic structures, gaining practical experience in creating functional and efficient mechanical systems.

Control Systems: This component covers the fundamentals of control theory, including feedback systems, stability analysis, and control strategies. Students will develop skills in designing and implementing control algorithms that enable robots to perform precise and complex tasks.

Programming: Programming is a crucial aspect of robotics. Students will gain proficiency in programming languages such as Python and C++, and will work extensively with Arduino, a popular open-source platform used for building electronic projects. This hands-on experience will enable students to write code that controls robotic systems and integrates various sensors and actuators.

Projects and Research: Throughout the program, students will engage in projects that challenge them to apply their knowledge to real-world problems. These projects often involve collaboration with industry partners and provide valuable insights into the latest trends and advancements in robotics.

Artificial Intelligence

Our Artificial Intelligence (AI) program covers the principles and applications of AI, offering a comprehensive understanding of how intelligent systems are designed, developed, and deployed. This program explores a wide range of topics, from the theoretical foundations of AI to practical applications in various industries.

Key Components:

- **Machine Learning:** Students will delve into machine learning algorithms and techniques, including supervised and unsupervised learning, reinforcement learning, and deep learning. They will learn how to train models on data and evaluate their performance.

- **Neural Networks:** This component focuses on the architecture and functioning of neural networks, including convolutional neural networks (CNNs) and recurrent neural networks (RNNs). Students will gain hands-on experience in building and optimizing neural networks for different applications.

- **AI Ethics:** Understanding the ethical implications of AI is crucial. Students will explore topics such as bias in AI, privacy concerns, and the impact of AI on society. They will learn how to design and implement AI systems that are ethical and socially responsible.

- **Applications and Projects:** The program includes practical projects where students apply AI techniques to solve real-world problems. These projects provide an opportunity to work with cutting-edge technologies and develop innovative solutions in fields such as healthcare, finance, and autonomous systems.

Information and Communication Technology (ICT)

Our ICT program provides students with a robust foundation in network systems, data management, and cybersecurity, preparing them for a wide range of careers in the technology sector. This program is designed to offer both theoretical knowledge and practical skills, ensuring students are capable of managing and securing information systems.

Key Components:

- **Network Systems:** Students will learn about the design, implementation, and management of network infrastructures. This includes understanding network protocols, architecture, and troubleshooting techniques.

- **Data Management:** Effective data management is critical in today's data-driven world. Students will gain expertise in database design, data warehousing, and data analytics, learning how to organize, store, and retrieve data efficiently.

- **Cybersecurity:** With the increasing threat of cyber-attacks, cybersecurity is a vital component of ICT. Students will explore the principles of cybersecurity, including threat detection, risk management, and ethical hacking. They will learn how to protect information systems from unauthorized access and cyber threats.

- **Grade 6 to 11 ICT:** Our ICT curriculum also includes specialized programs for students in grades 6 to 11. These programs are designed to introduce younger students to the fundamentals of ICT, fostering early interest and competence in technology. Topics covered include basic programming, digital literacy, and safe internet practices.

- **Projects and Internships:** Students will participate in projects and internships that provide real-world experience in managing and securing information systems. These opportunities help students apply their knowledge in practical settings and prepare them for professional roles in the ICT industry.

Emerging Technologies

The Emerging Technologies program is designed to explore the cutting-edge innovations that are shaping the future of technology. This program provides students with an understanding of the latest technological advancements and their potential applications across various industries.

Key Components:

- **Internet of Things (IoT):** Students will learn about the principles and applications of IoT, including sensor networks, data communication, and IoT security. They will work on projects that involve creating smart systems and devices that communicate and interact with each other.

- **Blockchain:** This component covers the fundamentals of blockchain technology, including its architecture, cryptographic principles, and decentralized applications. Students will explore how blockchain can be used to create secure and transparent systems for various applications, such as finance and supply chain management.

- **Quantum Computing:** Quantum computing is a revolutionary field that has the potential to solve complex problems beyond the capabilities of classical computers. Students will learn about quantum algorithms, quantum cryptography, and the principles of quantum mechanics. They will gain an understanding of how quantum computing can be applied to areas such as optimization and secure communication.

- **Projects and Innovation:** The program encourages students to engage in innovative projects that explore the potential of emerging technologies. These projects often involve interdisciplinary collaboration and provide opportunities to develop solutions that address real-world challenges.

The academic programs at the Mechatronix Institute for Robotic Engineering are designed to provide a holistic and interdisciplinary education that prepares students for the future. Through a combination of theoretical knowledge, practical experience, and cutting-edge research, our programs aim to equip students with the skills and expertise needed to excel in the rapidly evolving fields of robotics, AI, ICT, and emerging technologies. We are committed to fostering a culture of innovation and excellence, empowering our students to become leaders and pioneers in their respective fields.

11 Admission Requirements

To join the vibrant community at the Mechatronix Institute for Robotic Engineering, prospective students must meet the following admission requirements. Our selection process aims to identify candidates who are passionate about robotics and new technologies, and who demonstrate the potential to excel in our rigorous academic environment.

- **Completed Application Form:**
  - Applicants must fill out and submit the official application form available on our website or through the admissions office.

- **Interest in Robotics and New Technologies:**
  - Applicants should have a demonstrated interest in robotics, AI, ICT, or emerging technologies.

- **Application Fee:**
  - A non-refundable application fee must be paid at the time of submission. Details about the fee amount and payment methods are available on the application form and the institute's website.

- **Important Dates:**
  - Application Deadlines: Ensure your application is submitted by the specified deadlines for each intake. These dates are available on the institute's website.
  - Notification of Acceptance: Applicants will be notified of their admission status by email within a specified period after the application deadline.

12 Student Code of Conduct

At the Mechatronix Institute for Robotic Engineering, we are committed to fostering a community that upholds the highest standards of integrity, respect, and responsibility. As a student, you are expected to adhere to these principles in all aspects of your academic and personal conduct. The following guidelines outline the expectations for behavior and conduct to ensure a positive, safe, and productive learning environment for everyone.

Academic Integrity

Academic integrity is the foundation of our educational philosophy. Upholding academic honesty is crucial to maintaining the trust and respect that underpin our academic community. Students are expected to:

1.Avoid Cheating:

Cheating undermines the educational process and is strictly prohibited. This includes using unauthorized materials during exams, copying from others, and submitting work that is not your own.

2.Refrain from Plagiarism:

Plagiarism, or the act of presenting someone else's work or ideas as your own without proper attribution, is a serious violation of academic integrity. Always credit original sources and use proper citation methods.

3.Ensure Authenticity of Work:

Falsification of data, records, or any academic document is unacceptable. This includes fabricating research results, altering academic records, and providing false information on applications or other official documents.

4.Collaborate Ethically:

While collaboration is encouraged, it is important to distinguish between legitimate collaborative efforts and unauthorized assistance. Always adhere to the guidelines provided by instructors for group work and individual assignments.

Violations of academic integrity will result in disciplinary action, which may include failing grades, suspension, or expulsion from the institute.

Respect for Others

Creating a respectful and inclusive environment is essential for the success and well-being of all members of the Mechatronix community. Students are expected to:

1.Treat Peers, Faculty, and Staff with Respect:

Engage in interactions that are courteous, considerate, and free from harassment or discrimination. Respect differing viewpoints and contribute to a supportive learning atmosphere.

2.Foster a Positive Learning Environment:

Act in ways that promote a positive and collaborative learning environment. This includes participating actively and constructively in class discussions, group projects, and other academic activities.

3.Address Conflicts Constructively:

When conflicts arise, address them in a constructive manner. Seek resolution through dialogue and, if necessary, involve appropriate mediators such as academic advisors or counselors.

Property Respect

Respect for property ensures that the institute's facilities and resources are available and in good condition for all students. Students are expected to:

1.Respect School Property:

Use campus facilities, equipment, and resources responsibly. This includes classrooms, laboratories, libraries, and common areas. Any damage or misuse of school property is unacceptable and may result in disciplinary action.

2.Respect the Belongings of Others:

Do not tamper with, use without permission, or damage the personal belongings of fellow students, faculty, or staff. Respect personal space and property to maintain a trustworthy and harmonious community.

3.Report Damages or Malfunctions:

Promptly report any damage or malfunction of institute property to the appropriate authorities. This helps ensure that repairs can be made quickly and resources remain available for everyone's use.

Safety

Safety is a top priority at Mechatronix Institute. Adhering to safety protocols and guidelines ensures the well-being of all members of our community. Students are expected to:

1.Follow Safety Protocols:

Adhere to all safety guidelines provided during orientation, classroom sessions, and laboratory instructions. This includes proper handling of equipment, use of protective gear, and awareness of emergency procedures.

2.Report Unsafe Conditions:

Immediately report any unsafe conditions or hazards to the relevant authorities. This proactive approach helps prevent accidents and ensures a safe learning environment.

3.Participate in Safety Training:

Attend all mandatory safety training sessions and stay informed about the latest safety protocols. This knowledge is essential for preventing accidents and responding effectively in emergencies.

4.Promote a Culture of Safety:

Encourage peers to follow safety guidelines and report unsafe behavior. A collective commitment to safety helps protect everyone in the community.

General Conduct

In addition to the specific guidelines above, students are expected to:

1 Act Responsibly:

- Take responsibility for your actions and their impact on others. This includes being punctual, meeting deadlines, and fulfilling academic and community obligations.
-

2.Maintain Professionalism:

- Conduct yourself in a professional manner both on and off-campus. This includes appropriate attire, language, and behavior that reflects positively on yourself and the institute.
-

3.Engage Positively with the Community:

- Contribute to the institute's community by participating in activities, events, and initiatives that promote learning, innovation, and collaboration.

Violations of the Student Code of Conduct will be addressed through the institute's disciplinary process. Consequences for misconduct may range from warnings and probation to suspension or expulsion, depending on the severity of the violation.

By adhering to these guidelines, students at Mechatronix Institute contribute to a thriving academic community where everyone can pursue their goals in a respectful, safe, and supportive environment. We look forward to your active participation in upholding these standards and making the most of your time at our institute.

13 Academic Guidelines

At the Mechatronix Institute for Robotic Engineering, we are dedicated to maintaining a rigorous academic environment that fosters learning, innovation, and personal growth. Our academic guidelines are designed to ensure that students can achieve their fullest potential while upholding the integrity and standards of our educational community. Below are the detailed policies and procedures that students are expected to follow.

Attendance Policy

Regular attendance is a crucial component of academic success. Consistent participation in classes ensures that students fully engage with the course material, benefit from interactions with instructors and peers, and develop a thorough understanding of the subject matter.

1.Mandatory Attendance:

- Students are required to attend at least 75% of their scheduled classes in each course to be eligible to sit for the final examinations. This attendance policy is enforced to promote active learning and engagement.

2.Monitoring Attendance:

- Attendance is monitored regularly by instructors. Students are expected to sign in or otherwise confirm their presence at each class session. Absences are recorded and students are encouraged to keep track of their attendance record.

3.Excused Absences:

- In certain circumstances, absences may be excused. Valid reasons for excused absences include medical issues, family emergencies, or other significant personal matters. Students must provide appropriate documentation, such as a doctor's note or a letter explaining the situation, to the academic office or their instructor.

4.Consequences of Excessive Absences:

- Students who fail to meet the 75% attendance requirement without valid justification may be barred from taking the final examinations. This can result in failing the course. Students at risk of excessive absences should proactively communicate with their instructors or academic advisors to discuss possible solutions.

5.Make-up Work:

- Students with excused absences are responsible for catching up on missed work. Instructors may provide opportunities for make-up assignments or additional tutoring sessions. It is the student's responsibility to arrange for these make-up activities in a timely manner.

Grading System

The grading system at Mechatronix Institute is designed to objectively assess students' performance and provide feedback on their progress. Grades are awarded based on a combination of coursework, exams, projects, and participation.

Grading Scale:

A: 80-100% – Excellent performance, demonstrating a superior understanding of the material and outstanding application of knowledge and skills.

B: 70-79% – Good performance, showing a solid grasp of the material and good application of knowledge and skills.

C: 60-69% – Satisfactory performance, reflecting an adequate understanding of the material and satisfactory application of knowledge and skills.

S: 50-59% – Marginal performance, indicating a basic understanding of the material but with notable gaps in knowledge or application.

F: Below 50% – Unsatisfactory performance, demonstrating a lack of understanding of the material and inadequate application of knowledge and skills.

Components of Grading:

- Coursework: Assignments, homework, and quizzes contribute to the overall grade. These are designed to reinforce daily learning and encourage continuous engagement with the material.

- Exams: Mid-term and final exams assess students' comprehension and retention of the course material. These exams are critical components of the grading process.

- Projects: Practical projects and research assignments are essential for applying theoretical knowledge to real-world scenarios. These projects often involve collaborative efforts and innovative problem-solving.

- Participation: Active participation in class discussions, group work, and other interactive activities is also factored into the overall grade. This encourages students to engage deeply with the content and with their peers.

Grade Reporting and Appeals:

- Grades are reported at the end of each term. Students have the right to review their grades and seek clarification from their instructors. If a student believes there has been a grading error, they may file an appeal following the institute's grade appeal procedure. This typically involves submitting a written request to the academic office, which will then review the case.

Academic Integrity

Academic integrity is a cornerstone of the educational experience at Mechatronix Institute. Upholding the principles of honesty, trust, and fairness is essential for maintaining the credibility of our academic programs and the value of our degrees.

Definition of Academic Dishonesty:

- Academic dishonesty includes, but is not limited to, cheating, plagiarism, fabrication of information, and unauthorized collaboration. These actions compromise the integrity of the academic process and devalue the efforts of honest students.

Examples of Academic Dishonesty:

- Cheating: Using unauthorized materials or assistance during an examination or assignment. This includes copying from another student, using notes or electronic devices without permission, and obtaining exam questions in advance.

- Plagiarism: Presenting someone else's work, ideas, or words as your own without proper attribution. This includes copying text from books, articles, websites, or other sources without citation.

- Fabrication: Inventing or falsifying data, research results, or other information. This includes altering academic records, fabricating research findings, and providing false information on official documents.

- Unauthorized Collaboration: Working with others on assignments or projects without the instructor's permission. While collaboration is often encouraged, it must always be within the guidelines set by the instructor.

Consequences of Academic Dishonesty:

- Students found guilty of academic dishonesty will face disciplinary actions that may include failing the assignment or course, academic probation, suspension, or expulsion from the institute. The specific consequences depend on the severity and nature of the violation.

Reporting and Adjudication:

- Instances of suspected academic dishonesty should be reported to the instructor or the academic office. The institute has a formal process for investigating and adjudicating cases of academic misconduct. Students accused of academic dishonesty have the right to a fair hearing and the opportunity to present their case.

Commitment to Academic Excellence

By adhering to these academic guidelines, students at Mechatronix Institute contribute to a culture of excellence and integrity. We are committed to supporting our students in their academic journey, providing the resources and guidance needed to achieve their goals. We encourage all students to take these guidelines seriously and strive for the highest standards in their academic and personal conduct.

14 Campus Facilities and Resources

At the Mechatronix Institute for Robotic Engineering, we are committed to providing our students with state-of-the-art facilities and comprehensive resources that support their academic and personal development. Our campus is designed to foster a conducive learning environment where students can thrive. Below are detailed descriptions of the key facilities and resources available to our students:

Library

The library at Mechatronix Institute is a cornerstone of our academic resources, offering a wealth of information to support your studies and research. Though currently in development, our library will soon provide:

1.Extensive Collections:

- A diverse range of books, journals, periodicals, and reference materials covering all areas of robotics, artificial intelligence, information and communication technology, and emerging technologies. These resources will support coursework, research projects, and independent study.

2.Digital Resources:

- Access to a vast array of digital resources, including e-books, online journals, databases, and multimedia content. These digital collections will be accessible both on-campus and remotely, ensuring that students have the resources they need at their fingertips.

3.Study Spaces:

- Quiet study areas and collaborative workspaces where students can read, research, and work on group projects. The library will offer a conducive environment for both individual and collaborative learning.

4.Research Assistance:

- Professional librarians and research assistants available to help students navigate the library's resources, conduct literature reviews, and utilize advanced research tools.

Laboratories

Our laboratories are designed to provide students with hands-on learning experiences and opportunities to apply theoretical knowledge in practical settings. Although still under development, our labs will feature:

1.Cutting-edge Technology:

- State-of-the-art equipment and technology, including robotic arms, AI development platforms, and advanced computing systems. These facilities will enable students to engage in experimental learning and innovative research.

2.Specialized Labs:

- Dedicated laboratories for different areas of study, such as robotics, AI, ICT, and emerging technologies. Each lab will be equipped with the specific tools and technologies needed for specialized learning and research.

3.Project and Research Support:

- Resources and support for student projects, from initial conception to final implementation. Students will have access to materials, equipment, and expert guidance to successfully complete their projects.

4.Safety and Training:

- Comprehensive safety protocols and training sessions to ensure that all students can use the lab equipment safely and effectively. Students will be instructed on proper lab procedures and safety measures.

Student Support Services

We recognize that student success extends beyond the classroom, and our support services are designed to address various aspects of student life, including academic, personal, and professional growth. Our student support services, currently being established, will include:

1.Academic Advising:

- Personalized academic advising to help students plan their coursework, set academic goals, and navigate their educational journey. Advisors will assist with course selection, academic challenges, and preparation for future studies or careers.

2.Counseling Services:

- Professional counseling services to support students' mental health and well-being. Counselors will provide confidential support for a range of issues, including stress, anxiety, personal concerns, and adjustment to college life.

3.Career Services:

- Comprehensive career services to prepare students for successful careers in their chosen fields. This includes career counseling, resume writing workshops, interview preparation, job search assistance, and networking opportunities with industry professionals.

4.Workshops and Seminars:

- Regularly scheduled workshops and seminars on topics such as time management, study skills, leadership development, and career planning. These sessions will provide valuable skills and knowledge to enhance students' personal and professional development.

5.Peer Support and Mentoring:

- Peer support programs and mentoring initiatives to foster a supportive and collaborative community. Senior students and alumni will provide guidance and support to help new students acclimate to college life and achieve their goals.

15 Health and Safety Guidelines

At the Mechatronix Institute for Robotic Engineering, the health and safety of our students, faculty, and staff are of paramount importance. We are committed to maintaining a secure and healthy campus environment. The following guidelines outline the essential health and safety protocols that everyone on campus must adhere to.

Emergency Procedures

Being prepared for emergencies is crucial for ensuring the safety of all campus members. Students must familiarize themselves with the following emergency procedures:

1. Emergency Exits:

- Identify the locations of all emergencies exits in buildings you frequently use, such as classrooms, laboratories, libraries, and dormitories. Clearly marked exits are essential for a swift evacuation during an emergency.

2. Evacuation Procedures:

- In the event of an emergency that requires evacuation, such as a fire or hazardous material spill, follow the posted evacuation routes and listen to instructions from emergency personnel. Leave all personal belongings behind and exit the building quickly and calmly.

3. Emergency Contacts:

- Save the campus emergency contact numbers in your phone. In case of an emergency, contact the campus security or emergency services immediately. Emergency contact information is provided in the student handbook and posted in common areas.

4. Fire Safety:

- Familiarize yourself with the location and proper use of fire extinguishers, alarms, and other fire safety equipment. Participate in scheduled fire drills to ensure you know how to respond appropriately.

5. Medical Emergencies:

- If you encounter someone experiencing a medical emergency, contact campus security or emergency medical services immediately. Provide as much information as possible about the nature of the emergency and the location of the individual.

Laboratory Safety

Given the hands-on nature of our programs, laboratory safety is critical. Adhering to the following lab safety protocols will help prevent accidents and ensure a safe working environment:

1. Safety Protocols:

- Follow all lab safety protocols as instructed by your professors and lab supervisors. This includes proper handling of equipment, chemicals, and other materials.

2. Protective Gear:

- Always wear appropriate protective gear, including lab coats, safety goggles, gloves, and any other required safety equipment. This gear is essential for protecting yourself from potential hazards.

3. Equipment Use:

- Use lab equipment only as instructed. Do not operate any machinery or equipment without proper training and authorization from your instructor or lab supervisor.

4. Chemical Safety:

- Handle chemicals with care, following all safety guidelines for storage, usage, and disposal. Be aware of the potential hazards associated with each chemical and take appropriate precautions.

5. Incident Reporting:

- Immediately report any accidents, spills, or unsafe conditions to your instructor or lab supervisor. Prompt reporting helps address issues quickly and prevent further incidents.

6. First Aid:

- Know the location of first aid kits in the lab. Familiarize yourself with basic first aid procedures and be prepared to assist in case of minor injuries.

Health Services

Maintaining good health and well-being is essential for academic success and personal development. The Mechatronix Institute offers the following health services to support our students:

1. Basic Health Services:

- On-campus health services provide basic medical care for minor illnesses and injuries. Services include health assessments, treatment for common ailments, and referrals to external healthcare providers when necessary.

2. Counseling Services:

- Mental health is equally important. Our counseling services offer support for a range of personal and psychological issues, including stress, anxiety, depression, and relationship problems. Professional counselors are available for confidential sessions.

3. Health Awareness Programs:

- Participate in health awareness programs and workshops conducted on campus. These programs focus on various health topics, such as nutrition, exercise, stress management, and preventive care.

4. Emergency Medical Services:

- In the event of a medical emergency, campus security can facilitate immediate access to emergency medical services. Emergency contact information and procedures are provided to all students during orientation.

By adhering to these health and safety guidelines, students can help create a secure and supportive environment for themselves and their peers. Your cooperation is vital in maintaining the well-being of our campus community.

16 Extracurricular Activities

Extracurricular activities are an integral part of the educational experience at Mechatronix Institute for Robotic Engineering. These activities provide opportunities for students to explore their interests, develop new skills, and build a sense of community. We encourage students to participate in a variety of clubs and organizations to enhance their learning and personal growth. However, the formation of student unions is not permitted.

Robotics Club

The Robotics Club is one of the most popular and active student organizations on campus. It provides a platform for students interested in robotics to collaborate on projects, participate in competitions, and share knowledge.

1. Project Development:

- Members work on exciting robotics projects, from designing and building robots to programming and testing them. These projects often culminate in demonstrations or competitions.

2. Workshops and Seminars:

- The club regularly hosts workshops and seminars conducted by industry experts and faculty members. These sessions cover advanced topics in robotics and provide hands-on learning experiences.

3. Competitions:

- Students have the opportunity to participate in local, national, and international robotics competitions. These events challenge students to apply their skills and innovate under pressure.

AI Society

The AI Society is dedicated to exploring the vast field of artificial intelligence. It brings together students who are passionate about AI and its applications in various industries.

1. Discussion Groups:

- Members engage in regular discussion groups to explore current trends, research, and ethical considerations in AI. These discussions help deepen understanding and stimulate critical thinking.

2. Hackathons:

- The AI Society organizes hackathons where students can work in teams to develop AI solutions for real-world problems. These events foster creativity, collaboration, and practical application of AI concepts.

3. Guest Lectures:

- Prominent AI professionals and researchers are invited to give guest lectures. These sessions provide insights into the latest advancements in AI and career opportunities in the field.

Tech Innovators

The Tech Innovators club is focused on fostering a spirit of innovation and entrepreneurship among students. It provides resources and support for those looking to develop new technologies and startup ideas.

1. Innovation Challenges:

- Members participate in innovation challenges where they can develop and pitch their tech solutions to a panel of judges. These challenges simulate real-world startup environments and encourage innovative thinking.

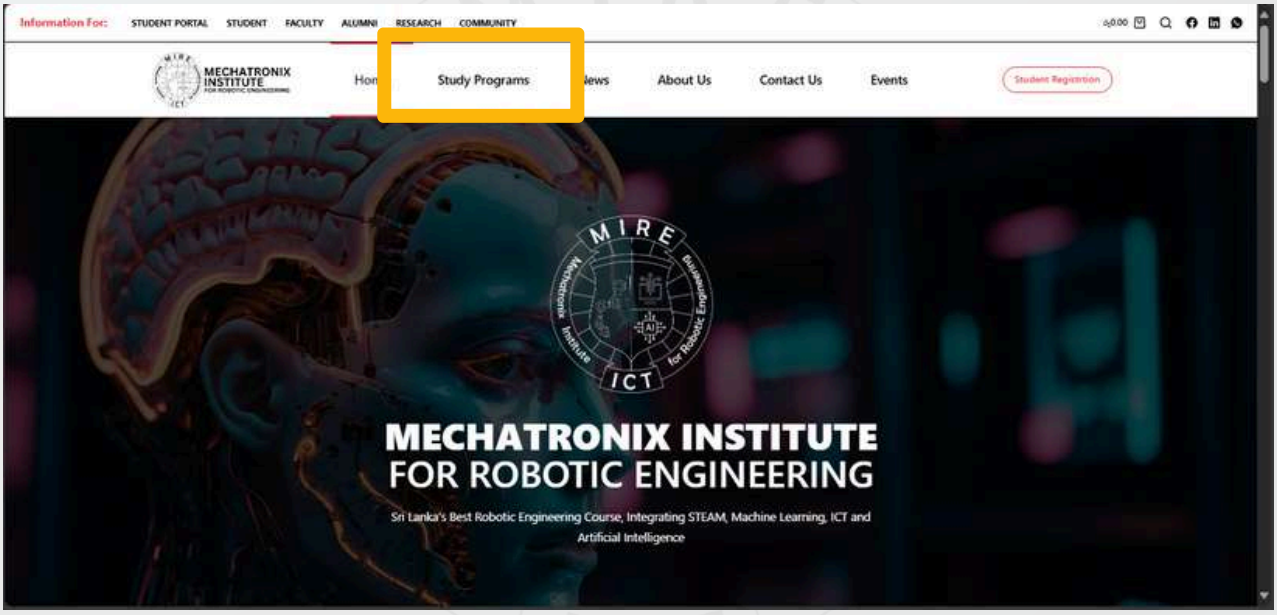
2. Mentorship Programs:

- The club offers mentorship programs where experienced entrepreneurs and industry professionals guide students through the process of developing their ideas into viable products or services.

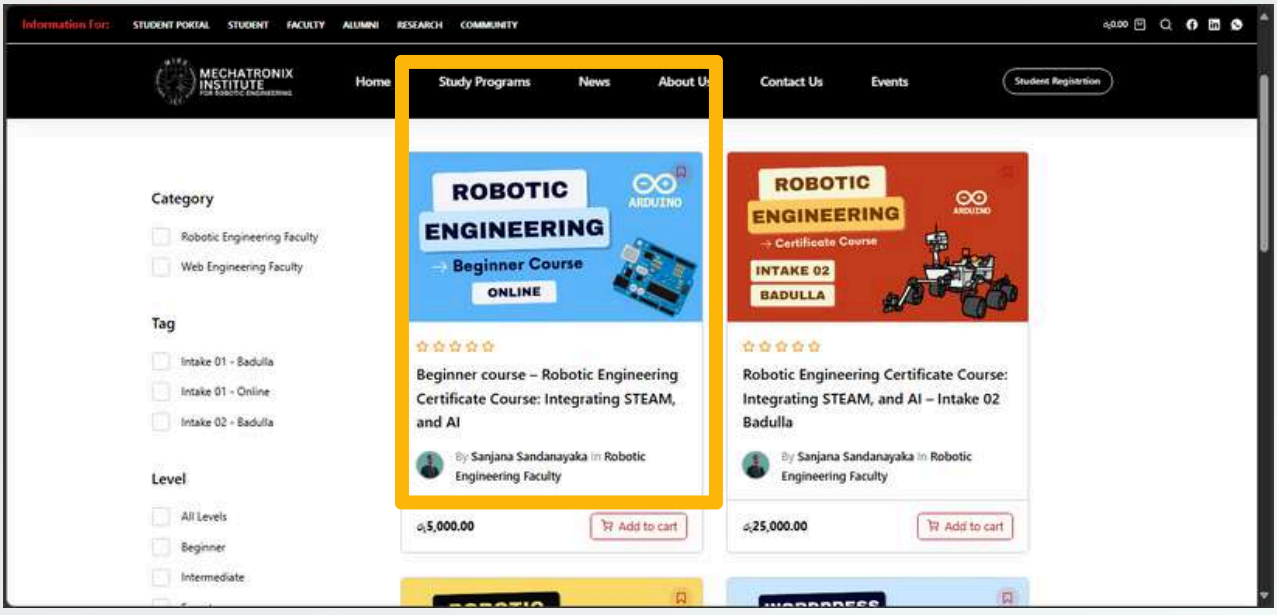
17 Student Portal

Step 01

Go to **mire.lk** and Click on **Study Programs.**
Already purchased a course? Click on the **Student Portal** and log in here.

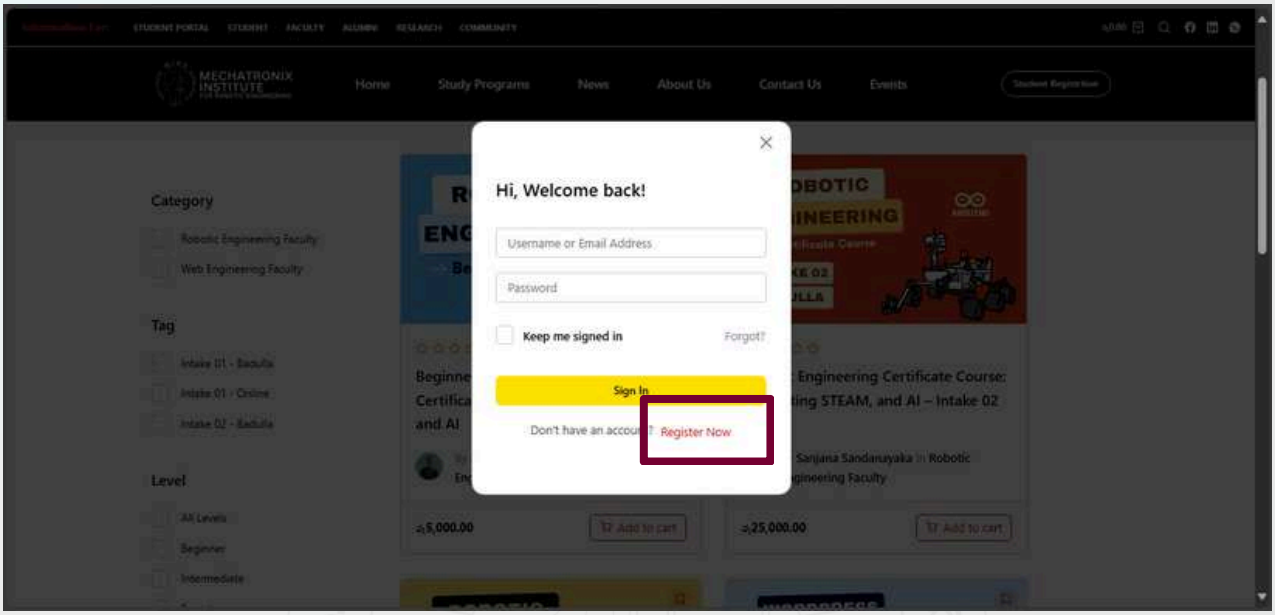


Select your course and click **Add to Cart**.

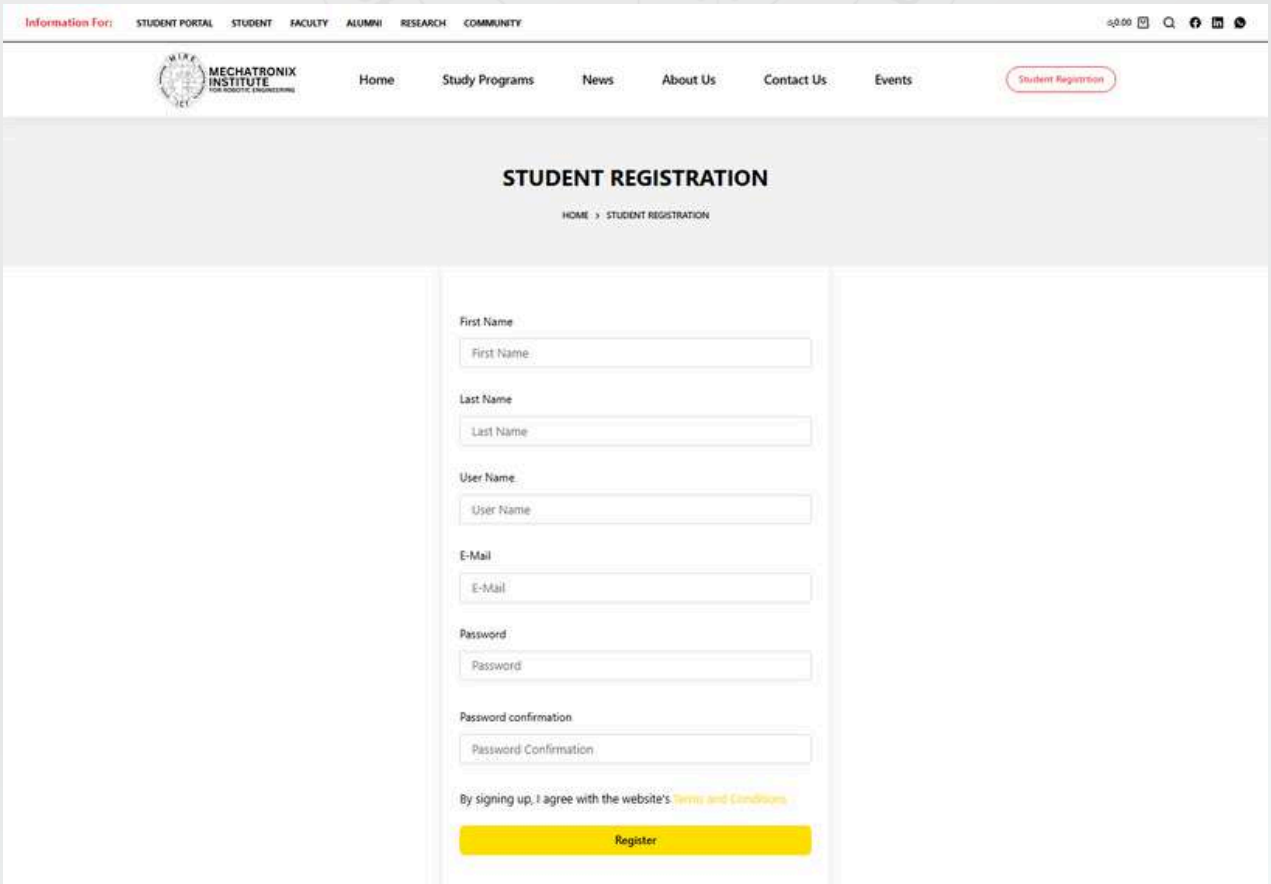


Step 02

Click the **Register Now** button.

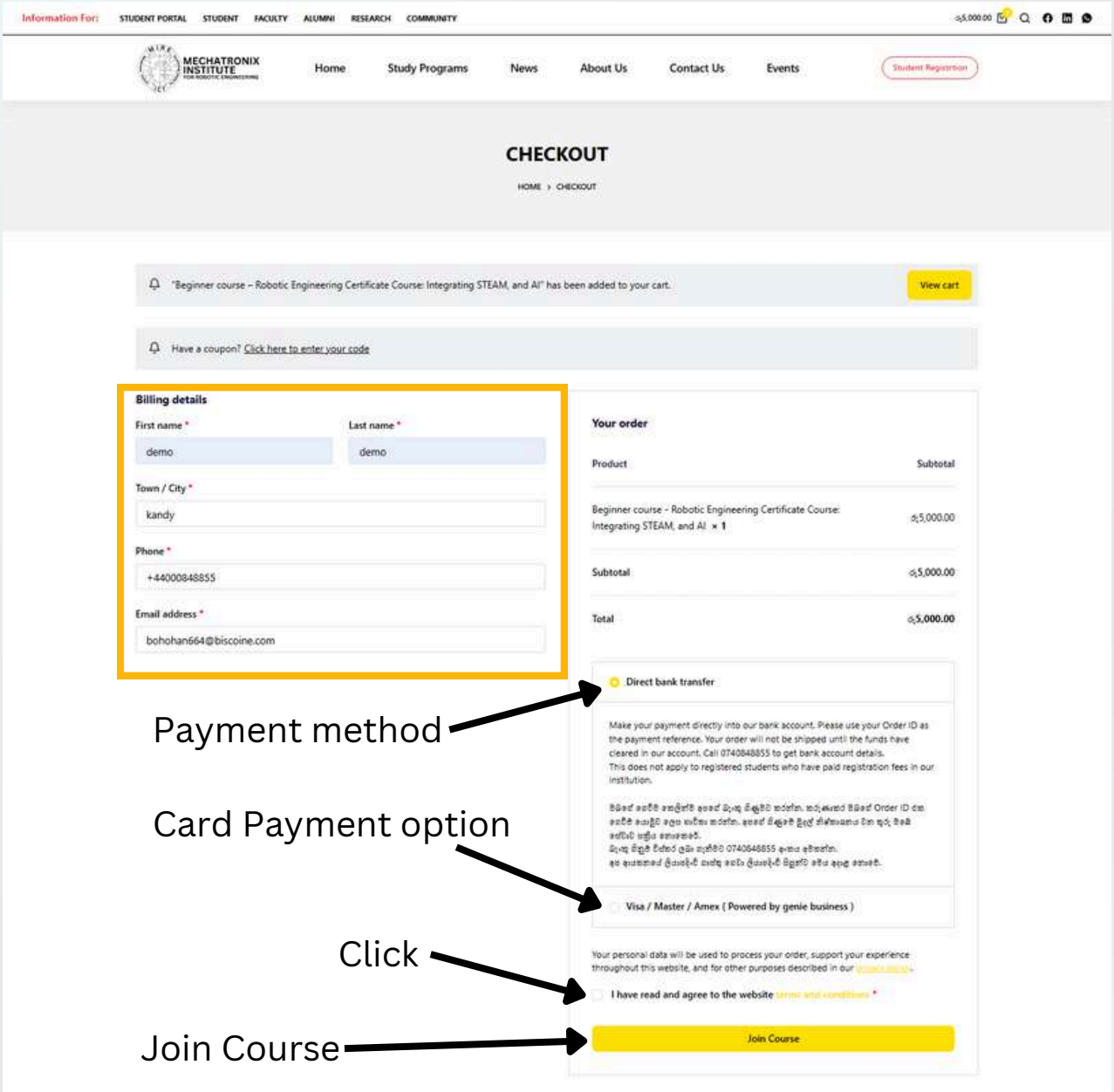


Fill out this form and click the **Register** button.



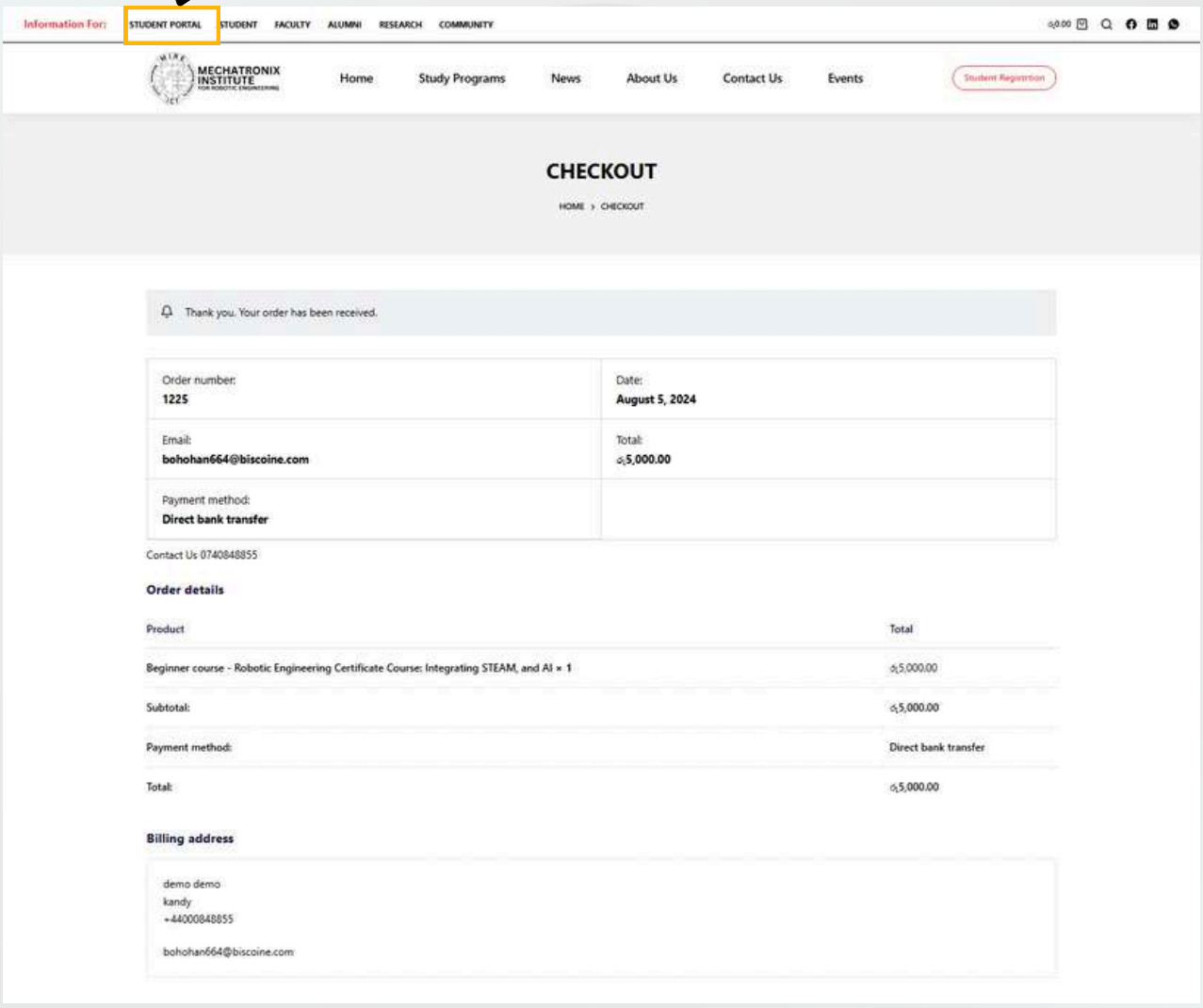
Step 03

Fill in all the details and select your payment method.
If you've already paid, click the **Direct Bank Transfer** option.



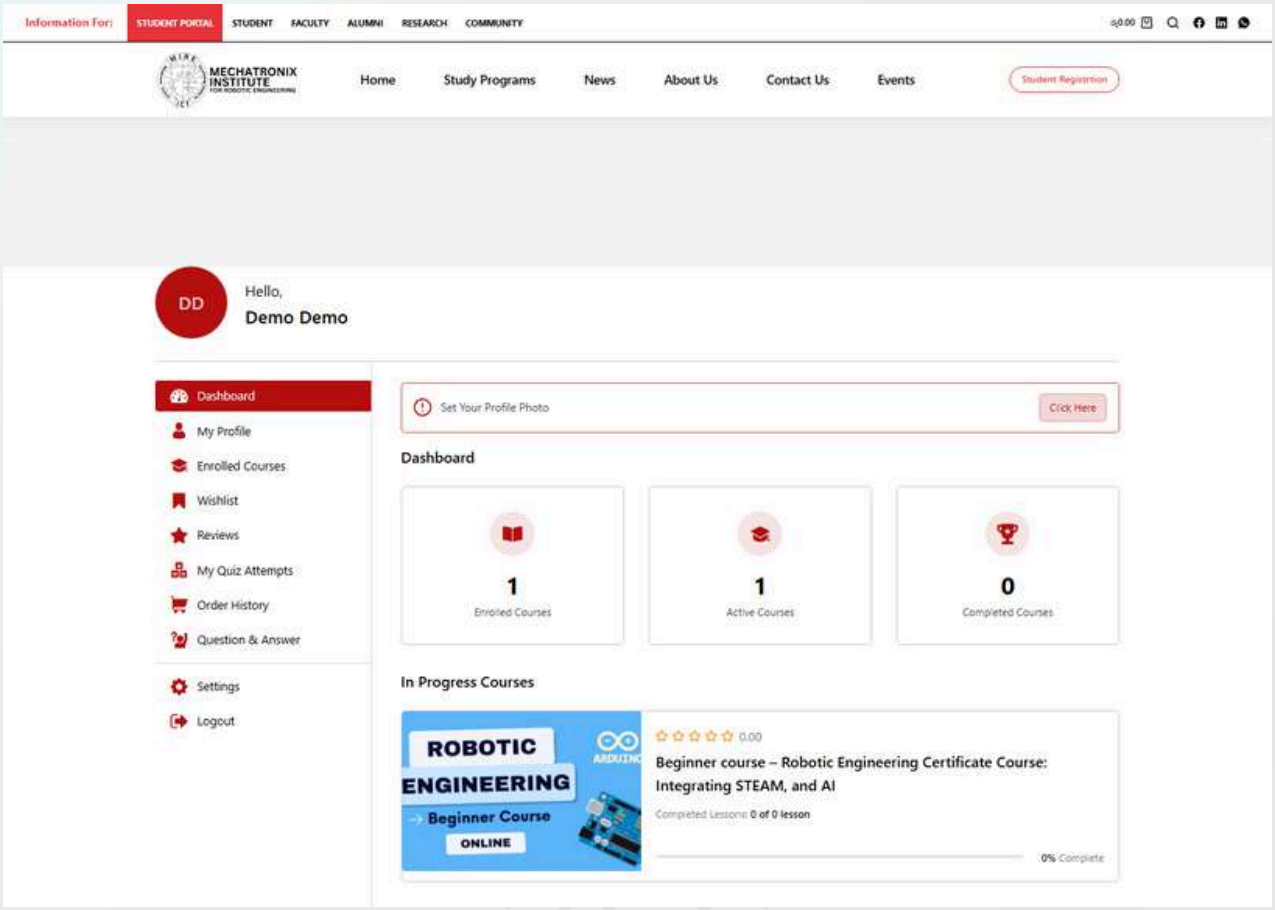
Step 04

We have sent your invoice.
Click on the **Student Portal** now.



Step 05

We are reviewing your request. Once accepted, you will be able to access your course.



18 Contact Information

For any queries or additional information, please contact us at:

Address: Mechatronix Institute for Robotic Engineering, Keppetipola Road, Badulla, Sri Lanka
Phone: +94 740848855
Email: info@mire.lk
Website: www.mire.lk