



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)



SMVEC AICTE - IDEA LAB



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Position since July 2022
based on the activities done

out of 104 IDEA LAB established in INDIA



ABOUT THE INSTITUTION

Sri Manakula Vinayagar Engineering College (SMVEC) an Autonomous Institution, established in 1999 and affiliated with Pondicherry University, aims to provide quality and affordable technical education, especially to underprivileged sections. Gaining autonomous status in 2020, SMVEC offers 14 undergraduate programs, including a TCS-supported course, eight postgraduate programs, and 11 research programs, all approved by AICTE New Delhi and UGC.

SMVEC has received an "A" grade from the National Assessment and Accreditation Council (NAAC) and accreditation from the National Board of Accreditation (NBA) for its B.Tech programs. It is also recognized by TCS, reflecting its high educational standards.

The college emphasizes hands-on learning and research with state-of-the-art facilities, such as advanced laboratories and modern libraries. These resources foster intellectual growth and innovation. SMVEC's green campus initiatives demonstrate a commitment to sustainability, integrating academic excellence with environmental responsibility. The launch of the 'Nila Community Radio Station,' the first in Puducherry, highlights the institution's dedication to community engagement. Achieving autonomy has enabled SMVEC to align its curriculum with industry needs, emphasizing outcome-based education. Collaborations with IBM, Google, Cisco, and Microsoft through the Train Lab Academy and 17 Centres of Excellence offer students international certification opportunities, enhancing their global job market competitiveness.

The 150-acre campus, equipped with amenities like Wi-Fi, centralized air-conditioning, and essential services, ensures a comfortable and enriching student experience. The MSME-sponsored Technology Business Incubator (TBI) Cell fosters entrepreneurship and creativity. SMVEC's placement training team has a strong track record, securing over 1000 job offers annually from prestigious firms. Overall, SMVEC combines high-quality education, practical training, and community engagement, establishing itself as a leader in technical education.

ABOUT IDEA LAB

AICTE has launched a scheme to establish AICTE-IDEA (Idea Development, Evaluation & Application) Labs in its approved institutions to encourage students to apply Science, Technology, Engineering, and Mathematics (STEM) fundamentals for enhancing hands-on experience and learning by doing. The All-India Council for Technical Education (AICTE) announced the names of 49 institutions that were selected for establishing AICTE IDEA (Idea Development, Evaluation & Application) Lab in their campus. IDEA Labs are co-funded by AICTE and industry/institution under the Scheme. As a common facility embedded in the institution, IDEA Lab facilitates students to "engage, explore, experience, express and excel," as desired by the Hon'ble Prime Minister following the release of the National Education Policy 2020. These labs are mandated to function 24x7 in the selected institutions and be available to colleges, schools, and industries.

Under this scheme, a grant of Rs. 1.23 Crore is sanctioned, of which Sri Manakula Vinayagar Engineering College received a grant of Rs. 47.7 lakhs from AICTE, and the remaining amount of Rs. 75.30 lakhs are contributed from the management to establish SMVEC AICTE-IDEA Lab. This IDEA Lab is a common facility of the institution that will make engineering graduates more imaginative and creative, besides providing training in 21st-century skills such as critical thinking, problem-solving, research, collaboration, communication, lifelong learning, etc. IDEA Lab can empower the students and faculty to "engage, explore, experience, express and excel", addressing the need of new age learning. IDEA Lab would serve as an infrastructure for faculty to take up and promote multidisciplinary education and research. Accordingly, faculty would be encouraged to get trained in this Lab and strive for creating problems/ projects/ internships in their own subjects/ disciplines and mentor the students.

Objective

- All facilities under one roof for the conversion of ideas into a prototype.
- Training in the 21st century skills- critical thinking, problem-solving, collaboration etc.
- Making engineering students more curious, imaginative and creative; engineering education more engaging.
- IDEA lab will be centered around activities and events to promote multidisciplinary education and research.

ELECTRONIC PRODUCT DESIGN LAB



Product Design Lab section is a dedicated space designed to foster innovation, practical learning, and research in electronics and embedded systems. This section provides student, researchers, and educators with the tools and environment needed to develop, test, and prototype electronic systems, bridging the gap between theoretical concepts and real-world applications.

Equipments:

- *Basic Instruments:* Includes oscilloscopes, function generators, multimeters, and power supplies.
- *Advanced Instruments:* Features spectrum analyzers, logic analyzers, network analyzers, and signal generators.
- *Prototyping Tools:* Soldering and rework stations, and CNC machines for creating and testing PCB.

Components and Accessories:

A comprehensive inventory of passive and active components, connectors, cables, breadboards, and PCBs.

Software Tools:

- *Design and Simulation:* Tools like SPICE simulators, MATLAB, Simulink, and LabVIEW for system design and analysis.
- *PCB Design:* Altium Designer, KiCad, and Eagle for creating circuit boards.





ADDITIVE MANUFACTURING LAB

An Additive Manufacturing Lab is a facility equipped for the production of components or products using additive manufacturing (AM) technologies, often referred to as 3D printing. AM labs often aim to advance the understanding and capabilities of additive manufacturing technologies. This may involve fundamental research into new materials, processes, and techniques, as well as applied research to solve specific challenges in various industries. AM labs serve as educational hubs where students, researchers, and industry professionals can learn about additive manufacturing through hands-on experience. : One of the primary applications of AM is rapid prototyping and iterative design. AM labs provide facilities for designers and engineers to quickly iterate through design concepts, produce prototypes, and test functional prototypes for form, fit, and function.



Equipments

FDM 3D Printer-Ender 3 V2, Thunder Pro, Creatbot | SLA 3D Printer | SLA Curing Machine | 3D Scanner

Softwares Used

Modeling software

- Tinker Cad
- Onshape
- Fusion 360
- CATIA
- SOLID Works

Slicing software

- Ultimaker Cura
- Simplify 3D
- Creatware
- PrusaSlicer

3D Scanning software

- Revo Scan
- Revo Studio



INTERNET OF THINGS LABORATORY

An IoT (Internet of Things) laboratory is a space within Idea Lab dedicated to researching, developing, and testing IoT devices and applications. It provides a unique opportunity to explore the possibilities of IoT technology and to develop new and innovative solutions that can make a positive impact on society.



Components and Accessories:

- Microcontrollers and Development Boards: Arduino (Uno, Mega, Nano), Raspberry Pi, ESP8266/ESP32, BeagleBone Black.
- Sensors and Actuators: Actuators, Motion Sensors, Temperature and Humidity Sensors, Gas Sensors, Proximity Sensors
- Communication Modules: Wi-Fi Modules, Bluetooth Modules, RFID Modules.

Simulating Tools:

Tools like Tinkercad, Proteus are used for Arduino circuit simulation and microcontroller programming.

Software Tools:

- Integrating Development Environments (IDEs): Arduino IDE, PlatformIO, Visual Studio Code
- Cloud Platforms: Platforms such as AWS IoT, Google Cloud IoT, Microsoft Azure IoT are used for IoT device management and applications.
- Development Tools: Blynk tool is used for building mobile and web applications for the Internet of Things.



MECHANICAL SECTION

Laser cutting is a highly precise manufacturing technology that uses a focused laser beam to cut materials with extreme accuracy. Create complex shapes and designs quickly and easily by using Inkscape software, it has become an essential tool for many industries and creative professionals. The process involves directing a high-powered laser beam onto the material, which melts, burns, or vaporizes the material, leaving a clean and precise cut.

Laser engraving and cutting Machine for, Non-Metal such as: Acrylic, Soft wood, Paper, Cardboard, Cloth, Leather, Plastic, PVC, Rubber, Ceramic, MDF Plywood, Flat Glass, ABS Sheet (Dual Color)

Software Used

- Inkscape
- Coreldraw
- Photoshop

CNC WOOD ROUTER

A CNC wood router lab is a specialized facility equipped with CNC (Computer Numerical Control) wood router machines for educational or research purposes. CNC wood routers can perform a wide range of tasks including cutting, carving, engraving, and shaping wood.

One of the primary advantages of CNC wood routers is their ability to produce highly precise cuts and intricate designs. This precision allows for intricate detailing and complex shapes that would be challenging to achieve manually. The lab should provide dedicated workspaces where students or researchers can set up their projects, prepare materials, and operate the CNC machines under supervision. CNC wood router labs provide hands-on learning opportunities for individuals interested in woodworking, manufacturing, engineering, or related fields.

Software

- Art CAM
- Edding CNC



SEMINAR HALL

Outcome of AICTE – IDEA Lab

AICTE-IDEA (Idea Development, Evaluation & Application) Lab “encouraging students for application of science, technologies, engineering and mathematics (STEM) fundamentals towards enhanced hands-on experience, learning by doing and product visualization”



Monitoring Process

The IDEA lab process is monitoring as follows

- 15-20 parameters
- Parameters: Input (Users / Equipment added / Investment), Process (Events / Utilization), Output (Prototypes / Patents / Revenue), Recognition (Award / Mentorship)
- Performance Monitoring by IDEA lab
- Monthly points, Cumulative Points
- Composite score-based performance on the Lead board of IDEANET website
- Light but Tight approach
 - Utilization by Students of Host Institute
 - Utilization by Students of Other Institute
 - Utilization by Faculty Members of Host Institute
 - Utilization by Faculty Members of Other Institute
 - Utilization by Alumni of Host Institute
- Utilization by School Learners
- Utilization by Entrepreneur / Start-up
- Utilization by Industry
- Patent Registered or Granted by utilization of AICTE – IDEA Lab
- Awards received by utilization of AICTE – IDEA Lab
- Projects completed by using AICTE – IDEA Lab
- Handholding about AICTE – IDEA Lab in Network
- Operational Hours of the AICTE – IDEA Lab (Every Day)
- Investment in AICTE – IDEA Lab

By monitoring these aspects effectively, AICTE ensures that the IDEA Labs are functioning optimally, providing valuable learning experiences for students, and contributing to the overall goal of fostering innovation and creativity in technical education.



PERFORMANCE POINTS

AICTE IDEA Lab Monitoring Framework

Month	Points
June 2022	94
July 2022	776
August 2022	2252
September 2022	935
October 2022	735
November 2022	442
December 2022	1741
January 2023	394
February 2023	313
March 2023	56
April 2023	254
May 2023	424
June 2023	898
July 2023	246
August 2023	806
September 2023	502

Parameters	Numbers	Points
Host Institute Faculty Members	410	102
Host Institute	3487	348
Host Institute Alumni	701	701
Other Institute Faculty Members	37	18
Other Institute Student	221	44
Industry	0	0
School Teachers	48	48
School Learners	275	55
Entrepreneur / Start-up	1	1
Events	890	8900
Patents	0	0
Award received	12	600
Projects completed by using AICTE-IDEA Lab	24	24
Handholding an AICTE IDEA Lab Network	0	0
Investment in AICTE IDEA Lab	8654939	430
Operational Hours of the AICTE - IDEA Lab (Every day)	74	0
Total Points		11271

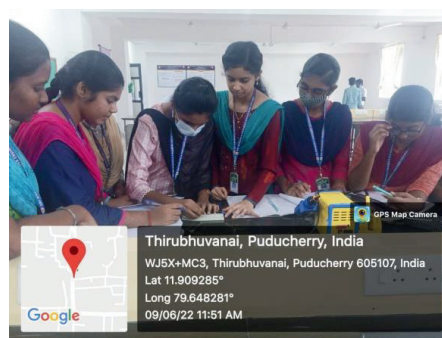


DETAILS OF THE EVENT ORGANIZED

Hands on Training in 3D printing and PCB Making

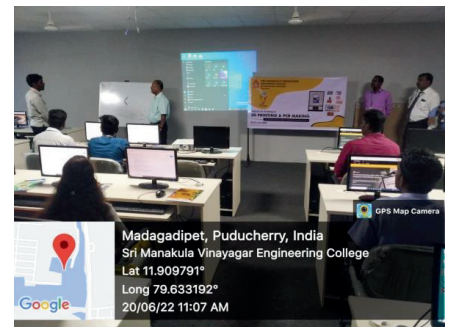
03-06-2022 to 06-06-2022

Hands-on training in 3D printing and PCB making equips individuals with essential technical skills for designing, prototyping, and manufacturing. In 3D printing, participants learn CAD software, printer operation, and material handling, culminating in practical projects and advanced techniques. PCB training covers circuit design, prototyping methods, soldering, assembly, and troubleshooting, using tools like Eagle and KiCad. These trainings foster innovation, creativity, and industry relevance, preparing individuals for careers in design, engineering, and manufacturing across sectors like electronics, aerospace, and medical devices. Continuous education in these evolving fields ensures proficiency and adaptability to technological advancements.



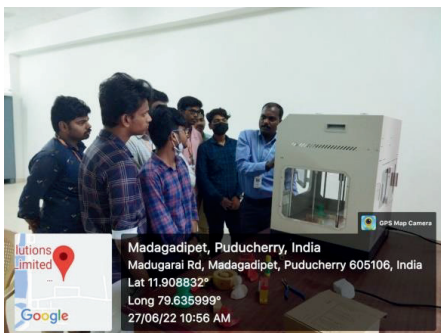
Hands on Training in 3D printing and PCB Making

20-06-2022 to 25-06-2022



Hands on Training in 3D printing and PCB Making

24-06-2022 to 29-06-2022



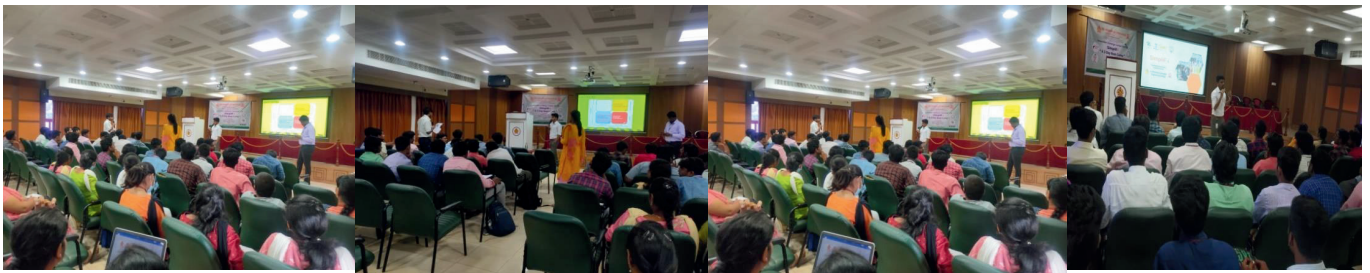


Innovation Challenge Contest (ICC'22)

07-07-2022 to 09-07-2022



The Innovation Challenge Contest (ICC'22) Ideation Workshop at Sri Manakula Vinayagar Engineering College, organized by SMVEC AICTE IDEA LAB, is a three-day event from 7th to 9th July 2022. Titled "A workshop on making your ideas happen," it aims to nurture creativity and innovation among students. Participants will engage in activities designed to transform their ideas into actionable projects, fostering practical skills and entrepreneurial thinking. This workshop supports the development of innovative solutions and prepares students for future technological challenges.

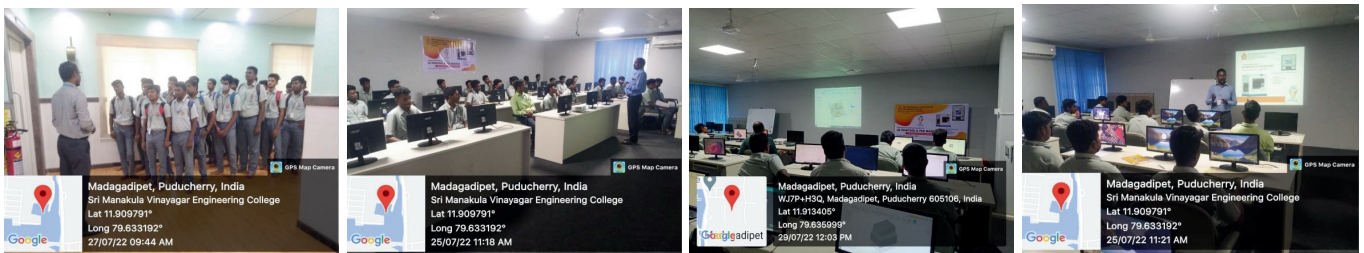


3D Printing & PCB Making- Professional Skilling Program

25-07-2022 to 13-08-2022

for Polytechnic Students

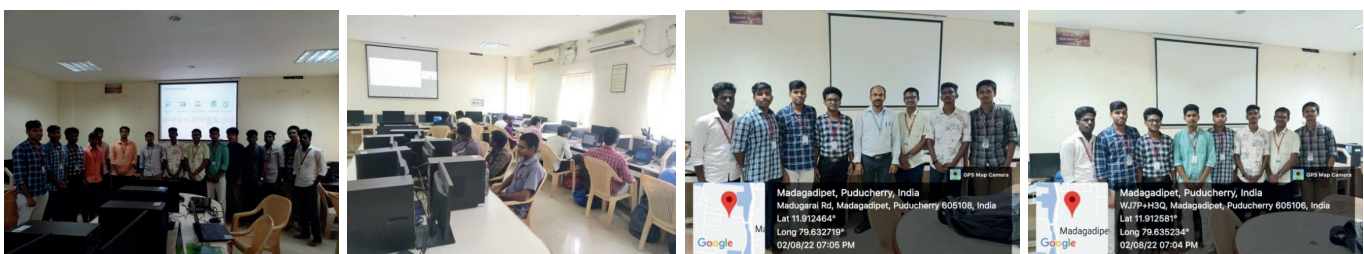
The Professional Skilling Program in 3D Printing and PCB Making for polytechnic students provides hands-on training to enhance industry-relevant skills. In 3D printing, students learn CAD design (Tinkercad, Fusion 360), printer operation, and complete real-world projects. PCB making training covers basics, design software (Eagle, KiCad), prototyping, soldering, and troubleshooting. This practical approach prepares students for careers in design, engineering, and manufacturing by bridging the gap between theoretical knowledge and industry demands, fostering innovation and technical competence.



Designing and Modelling of IOT, AI & ML Systems

01-08-2022 to 08-08-2022

Sri Manakula Vinayagar Engineering College is hosting an Ideation Workshop in Designing and Modelling of IoT, AI, and ML from 1st to 8th August 2022, organized by the AICTE IDEA Lab. The workshop covers training and innovation challenges on IoT overview and smart applications, an introduction to artificial intelligence, building your first IoT application, and embedded systems essentials. This program aims to equip participants with the knowledge and skills needed to develop and implement IoT, AI, and ML technologies, fostering practical understanding and innovation in these cutting-edge fields.



Skilling Program to School Students on Electronic Toys

22-08-2022 to 26-08-2022

Sri Manakula Vinayagar Engineering College's AICTE IDEA Lab is organizing a Skilling Programme on Electronic Toys from August 22-26, 2022. This program targets school students, offering hands-on training in the design and creation of electronic toys. The initiative aims to foster creativity and technical skills in young minds, introducing them to basic electronics, programming, and toy design. Through this interactive and practical workshop, participants will gain a foundational understanding of electronic components and toy mechanics, sparking interest in STEM fields and encouraging future innovation.





SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE
An Autonomous Institution
Puducherry-605 107

AICTE IDEA Lab
Organizes
Skilling Programme on
Electronic Toys




AICTE IDEA Lab
School Students
Registration Link

AUG
22-26
2022

Paste the reistration Link here

Skilling Programme on ArtCAM and CNC Router Training

18-08-2022 to 22-08-2022

The "Skilling Programme on ArtCAM and CNC Router Training" is an intensive course designed to equip participants with expertise in computer-aided design and manufacturing. Focusing on ArtCAM software and CNC router operation, the program covers key aspects such as 3D modeling, toolpath creation, and machine setup. Participants will learn to design intricate patterns and efficiently produce them using CNC routers. This training aims to enhance technical skills, boost career prospects in manufacturing and design industries, and foster innovation in digital fabrication. Ideal for students, professionals, and enthusiasts, the program combines theoretical knowledge with hands-on experience.



Skilling Programme on
ArtCAM and CNC Router Training
18, August 2022 to 22, August 2022



Training on

- Creating 2D designs by importing images
- Creating images using vectors and bitmaps
- Create 3D designs by importing reliefs
- Creating reliefs from vectors and bitmaps
- Toolpath to manufacture the design into a product
- To simulate the toolpath
- 2D Engraving and Mold making
- 3D Engraving and Mold making



Skilling Programme on ArtCAM and CNC Router Training

25-08-2022 to 25-10-2022

The "Internship Programme for PG Students on Product Design and Development Using Idea Lab Equipment" offers postgraduate students hands-on experience in innovative product creation. Utilizing advanced tools and technologies available in the Idea Lab, participants will engage in the entire product development lifecycle, from conceptual design to prototyping and testing. This program emphasizes practical skills, creativity, and problem-solving, preparing students for careers in product design and engineering. By collaborating on real-world projects, interns will gain valuable insights into industry practices and enhance their technical and professional competencies in a dynamic, supportive environment.





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Puducherry-605 107

SMVEC AICTE IDEA Lab
Organizes
Internship Programme for PG Students
on
Product Design and Development
using Idea Lab Equipments

25, August 2022 to 25 October 2022






Training on

- Autodesk Fusion 360
- Autodesk Eagle
- ArtCAM
- InKscape
- 3D Printing
- CNC wood Router
- Laser Cutting and Engraving
- PCB Making
- Product development

www.smvec.ac.in



Awareness Programme on Idea lab Equipments for Alumni Students **27-08-2022**



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE
Autonomous Pondicherry

AICTE IDEA Lab
Organizes
Awareness Programme on
IDEA Lab Equipments

AUG 27 2022

 **Alumni Students**
 **AICTE IDEA Lab**





The "Awareness Programme on Idea Lab Equipment for Alumni Students" is designed to introduce former students to the advanced tools and technologies available in the Idea Lab. This program aims to familiarize alumni with the lab's capabilities, including 3D printers, CNC machines, laser cutters, and other innovative equipment. Through demonstrations and interactive sessions, participants will learn how these resources can support their personal and professional projects. The program fosters a sense of community, encourages continued learning, and promotes the use of cutting-edge technology among alumni, enhancing their skills and maintaining their connection to the institution.

Skilling Programme on Inkscape Art and Laser cutting & Engraving

30-08-2022 to 06-09-2022



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE
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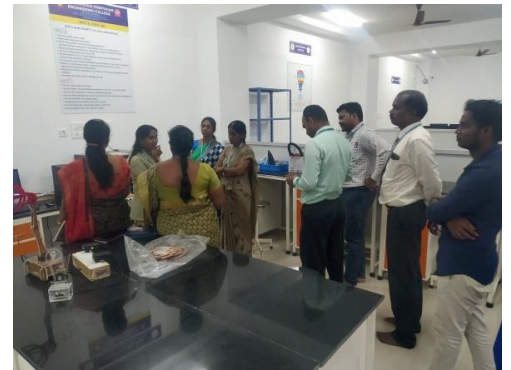
Training on

- How to create designs with inkscape that can be cut with any laser-cutters.
- How to prepare those designs for cutting.
- How to make simple one-piece projects (coasters)
- How to make designs with multiple layered pieces and add words to them. (picture frames)
- How to make designs with interlocking pieces and engrave images on them. (phone stands)
- How to make slot joints and finger joints to make boxes (pencil holder)
- How to add words and use outlines to make nice designs with text (studio sign)

Skilling Programme on Inkscape Art and Laser Cutting & Engraving
30, August 2022 to 06, September 2022

IDEALab
AICTE IDEA Lab

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The "Skilling Programme on Inkscape Art and Laser Cutting & Engraving" offers comprehensive training in digital art creation using Inkscape software and the operation of laser cutting and engraving machines. Participants learn to design intricate artwork and efficiently produce them through laser technology, enhancing skills in digital fabrication.

School Teachers Awareness Programme on Idea lab Equipments & Industry 4.0

29-08-2022 to 30-08-2022

The "School Teachers Awareness Programme on Idea Lab Equipment & Industry 4.0" is a comprehensive initiative aiming to equip educators with the necessary knowledge and skills to integrate cutting-edge technologies into their teaching practices. Through hands-on workshops and interactive sessions, teachers will gain proficiency in utilizing Idea Lab equipment such as 3D printers, CNC machines, and laser cutters, fostering creativity and innovation among students. Moreover, the program will delve into the principles and concepts of Industry 4.0, preparing teachers to educate students about the latest advancements in automation, robotics, and digitalization. By understanding these key industry trends, educators can effectively nurture students' problem-solving abilities and critical thinking skills, ensuring they are well-prepared for the demands of the future workforce.



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE
Autonomous (Puducherry)

School Teachers Awareness program on Idea Lab Equipments and Industry 4.0
29, August 2022 to 30, August 2022

IDEALab
INDUSTRY 4.0

AICTE IDEA Lab www.smvec.ac.in





Boot Camp to Bangalore Space Expo 2022 Organized by ISRO

05-09-2022 to 07-09-2022

The "Boot Camp to Bangalore Space Expo 2022 Organized by ISRO" is an immersive event designed to offer participants a firsthand experience of the latest advancements in space technology and exploration. Organized by the Indian Space Research Organisation (ISRO), the boot camp provides attendees with unique insights into space missions, satellite technology, and future space exploration endeavors. Participants engage in workshops, presentations, and interactive sessions led by leading experts in the field, fostering a deeper understanding of space science and its applications. The boot camp serves as a platform for aspiring space enthusiasts to network, learn, and be inspired by the incredible possibilities of space exploration.



Faculty Development Program on Smart Manufacturing to other Institute Faculty

26-09-2022 to 01-10-2022

A Faculty Development Program (FDP) on Smart Manufacturing aims to equip faculty from various institutes with advanced knowledge and skills in Industry 4.0 technologies. This program covers key topics like IoT, AI, robotics, data analytics, and automation. It enhances participants' understanding of integrating these technologies into manufacturing processes to improve efficiency and productivity. By fostering collaboration and sharing best practices, the FDP encourages the development of innovative teaching methods and research initiatives. Ultimately, it aims to prepare educators to train future professionals capable of driving the transformation towards smart manufacturing in various industries.



Professional Skilling Programme on Idea lab Equipments & and tools to Industrial Training Institute Students

26-09-2022 to 11-10-2022

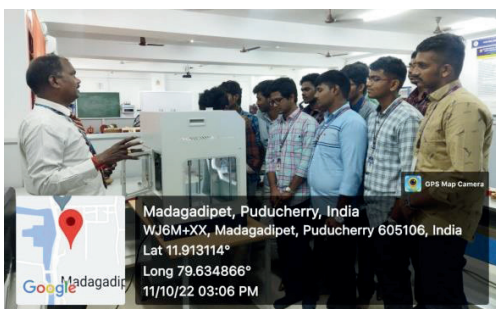
The Professional Skilling Programme on Idea Lab Equipment and Tools aims to equip Industrial Training Institute (ITI) students with practical skills in using cutting-edge technologies. This program covers the operation and application of modern equipment such as 3D printers, CNC machines, laser cutters, and various prototyping tools. By offering hands-on training, it enhances students' technical competencies and prepares them for industry demands. The program also fosters creativity and innovation, encouraging students to develop and prototype new ideas. Ultimately, it aims to bridge the gap between academic knowledge and industry requirements, enhancing employability and fostering a skilled workforce.



Skilling Programme on Product Development Using Idea Lab Equipments

10-10-2022 to 15-10-2022

The Skilling Programme on Product Development Using Idea Lab Equipment trains participants in the practical aspects of creating new products with advanced tools. This program includes hands-on experience with 3D printers, CNC machines, laser cutters, and other prototyping equipment. Participants learn the entire product development cycle, from conceptualization and design to prototyping and testing. The training enhances technical skills, fosters innovation, and encourages creative problem-solving. By bridging the gap between theoretical knowledge and practical application, the program aims to prepare participants for careers in product design and manufacturing, ultimately contributing to a more skilled and innovative workforce.





Skilling Program on IOT Based Product Development Using Idea Lab Equipment's & Tools

10-10-2022 to 15-10-2022

The Skilling Program on IoT-Based Product Development Using Idea Lab Equipment and Tools trains participants in designing and creating IoT devices. This hands-on program covers the use of advanced tools like 3D printers, CNC machines, and laser cutters, alongside IoT technologies such as sensors, microcontrollers, and communication modules. Participants learn the full development cycle, from concept and design to prototyping and testing, with a focus on integrating IoT capabilities. The program enhances technical skills, encourages innovation, and bridges the gap between theoretical knowledge and practical application, preparing participants for careers in IoT product design and smart technology development.



Skilling Programme on Inkscape Art & Laser Cutting & Engraving for Fashion Technology Students

14-10-2022 to 21-10-2022

The Skilling Programme on Inkscape Art and Laser Cutting & Engraving equips Fashion Technology students with advanced design and fabrication skills. Participants learn to use Inkscape for creating intricate vector graphics and designs, which are then brought to life using laser cutting and engraving techniques. This hands-on training enhances students' creativity, precision, and technical abilities, allowing them to produce customized and detailed fashion items and accessories. By integrating digital design with modern fabrication tools, the program prepares students for innovative careers in fashion technology, merging artistic creativity with cutting-edge technology.



Skilling Program on Idea Lab Equipment's & Tools for Host Institute Technical Assistant

17-10-2022 to 22-10-2022

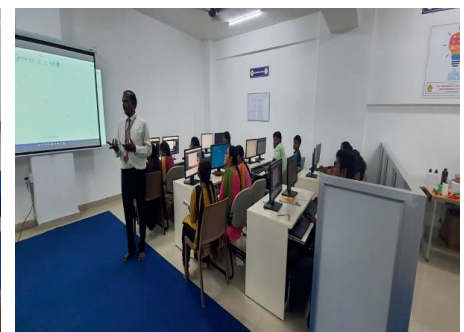
The Skilling Program on Idea Lab Equipment and Tools trains Technical Assistants from the host institute in the operation and maintenance of advanced fabrication tools. This program provides hands-on experience with 3D printers, CNC machines, laser cutters, and other prototyping equipment. Participants learn essential skills for managing, troubleshooting, and optimizing these technologies, ensuring smooth operation and support for lab users. By enhancing technical proficiency and problem-solving abilities, the program aims to empower Technical Assistants to effectively support innovative projects and maintain the lab's functionality, ultimately fostering a collaborative and productive environment for all users.



Ideation Workshop in Designing and Modelling of Controlling Smart Appliances

18-10-2022 to 28-10-2022

The Ideation Workshop on Designing and Modelling of Controlling Smart Appliances equips participants with the skills to conceptualize and prototype smart home devices. This workshop covers the basics of IoT, user interface design, and control systems. Participants engage in brainstorming sessions, design thinking exercises, and hands-on modeling using advanced tools and software. By focusing on practical applications and innovative solutions, the workshop fosters creativity and technical skills, preparing attendees to develop functional and efficient smart appliances. The goal is to bridge the gap between idea generation and practical implementation, driving innovation in smart home technology.





Open Day for School Students

09-11-2022

The Open Day for School Students offers an engaging and interactive platform for young learners to explore diverse educational experiences. Through hands-on activities, workshops, and demonstrations, students delve into various subjects, including science, technology, arts, and more. The event fosters curiosity, creativity, and critical thinking while providing insights into potential career paths. By showcasing innovative projects and facilitating interactions with educators and professionals, the Open Day aims to inspire students and ignite a passion for lifelong learning. It serves as an inclusive and enriching opportunity for students to discover their interests and envision their future academic and professional endeavors.



Winter Internship Program on IOT Based Product Development Using Idea Lab Equipment Tools & Resources

08-11-2022 to 08-01-2023

The Winter Internship Program on IoT-Based Product Development utilizes Idea Lab equipment, tools, and resources to provide hands-on experience in creating innovative IoT devices. Participants learn to integrate IoT technologies with prototyping tools such as 3D printers, CNC machines, and laser cutters. Through practical projects and guided mentorship, interns develop skills in IoT design, programming, and product development. The program fosters creativity, problem-solving, and teamwork while preparing interns for careers in the rapidly evolving field of IoT. By leveraging state-of-the-art facilities and expertise, the internship equips participants with valuable knowledge and experience for future endeavors in technology and innovation.



Skilling Programme on Idea Lab Equipment's & Tools

09-11-2022 to 14-11-2022

The Skilling Programme on Idea Lab Equipment and Tools offers comprehensive training in utilizing advanced fabrication equipment and tools. Participants gain hands-on experience with 3D printers, CNC machines, laser cutters, and more. Through practical exercises and guided instruction, the program enhances technical proficiency and problem-solving skills. Participants learn the principles of design, prototyping, and fabrication, empowering them to bring their ideas to life. By bridging theory with practical application, the programme prepares individuals for careers in diverse fields such as engineering, design, and manufacturing, equipping them with the expertise needed to thrive in an increasingly innovative and technology-driven world.



Design Skill Workshop on 3D Design & Product Development

09-11-2022 to 14-11-2022

The Design Skill Workshop on 3D Design & Product Development provides participants with essential skills and knowledge in creating and developing products using 3D design techniques. Through interactive sessions and hands-on exercises, participants learn the fundamentals of 3D modeling, rendering, and prototyping. The workshop covers concept development, digital sculpting, and advanced CAD techniques, fostering creativity and problem-solving abilities. By emphasizing practical application and real-world projects, the workshop equips participants with the expertise needed to transform ideas into tangible products. Whether for industrial design, engineering, or creative projects, participants gain valuable skills for innovation and success in product development endeavors.





Hands on Training on Laser Cutting & Engraving

09-11-2022 to 14-11-2022

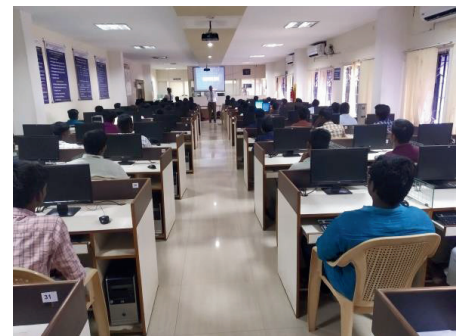
The Hands-on Training on Laser Cutting & Engraving offers practical instruction in utilizing laser technology for precision cutting and engraving. Participants learn safety protocols and operating procedures for laser machines, along with design software proficiency. Through hands-on practice, they explore various materials and techniques, mastering intricate cutting and detailed engraving processes. The training covers applications across industries, from crafting and prototyping to industrial manufacturing. By combining theoretical knowledge with practical skills, participants gain the expertise to execute complex projects and unleash their creativity. This comprehensive training prepares individuals for diverse opportunities in design, fabrication, and manufacturing fields.

TRAINING ON

- How to create designs with Inkscape that can be cut with any laser-cutters.
- How to prepare those designs for cutting.
- How to make simple one-piece projects (coasters).
- How to make designs with multiple layered pieces and add words to them. (picture frames)
- How to make designs with interlocking pieces and engrave images on them. (phone stands)
- How to make slot joints and finger joints to make boxes (pencil holder)
- How to add words and use outlines to make nice designs with text (studio sign)

AICTE IDEA Lab

www.stv.ac.in



Skilling Program to School Students on Product Development Batch 1

15-11-2022 to 22-11-2022

The Skilling Program introduces School Students to Product Development in Batch 1, offering hands-on experience in designing and creating innovative products. Participants learn essential skills such as ideation, prototyping, and presentation. Through interactive sessions and practical exercises, students explore the entire product development process, from conceptualization to production. The program emphasizes creativity, problem-solving, and teamwork, fostering an entrepreneurial mindset among participants. By providing exposure to real-world challenges and opportunities, Batch 1 equips students with valuable skills and knowledge to pursue future endeavors in product development and innovation.

Skilling Program to school students on product development

AICTE IDEA Lab
November 15-22 2022

School
OLIVE TREE MATRIC HR.SEC.SCHOOL
ANNIYUR-605202



Skilling Program to School Students on Product Development Batch 2 15-11-2022 to 22-11-2022

The Skilling Program for School Students on Product Development in Batch 2 offers hands-on training in designing and creating innovative products. Through interactive sessions and practical exercises, participants learn essential skills such as ideation, prototyping, and presentation. Emphasizing creativity, problem-solving, and teamwork, the program guides students through the entire product development process, from conceptualization to production. Batch 2 builds upon the foundation laid in Batch 1, providing students with deeper insights and advanced techniques in product development. By fostering an entrepreneurial mindset and practical skills, the program equips students to tackle real-world challenges and pursue opportunities in innovation and design.



Skilling Program to School Students on Product Development Batch 3 15-11-2022 to 22-11-2022

The Skilling Program for School Students on Product Development in Batch 3 offers comprehensive training in designing and creating innovative products. Through interactive sessions and practical exercises, participants develop essential skills such as ideation, prototyping, and presentation. Building on the knowledge from previous batches, Batch 3 delves deeper into advanced techniques and industry trends in product development. Emphasizing creativity, problem-solving, and collaboration, the program equips students with the expertise to tackle real-world challenges. By fostering an entrepreneurial mindset and providing hands-on experience, Batch 3 prepares students to excel in the dynamic field of product innovation and design.





Skilling Program to School Students on Electronic Toys

15-11-2022 to 22-11-2022

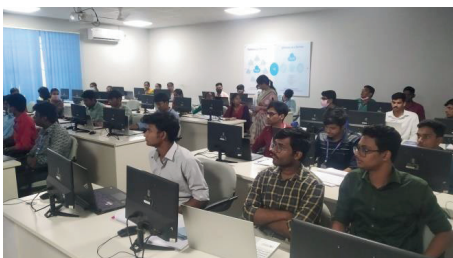
The Skilling Program for School Students on Electronic Toys provides hands-on training in designing and creating electronic toys. Participants learn essential skills such as circuit design, soldering, and programming microcontrollers. Through interactive sessions and practical exercises, students explore the principles of electronics and toy design. The program emphasizes creativity, problem-solving, and teamwork, empowering students to innovate and prototype their toy ideas. By combining theoretical knowledge with practical skills, the program prepares students to develop functional and engaging electronic toys. Ultimately, it fosters a passion for technology and creativity while equipping students with valuable skills for future endeavors in toy design and engineering.



Professional Skilling Program on Designing for 3D Printing with Fusion 360

15-11-2022 to 29-11-2022

The Professional Skilling Program on Designing for 3D Printing with Fusion 360 offers comprehensive training in utilizing Fusion 360 software for 3D printing design. Participants learn advanced techniques for modeling, prototyping, and preparing designs for additive manufacturing. Through hands-on exercises and guided instruction, students explore the intricacies of designing for 3D printing, including optimizing geometries and creating support structures. The program emphasizes creativity, precision, and problem-solving, preparing participants to produce high-quality and functional 3D-printed objects. By bridging theoretical knowledge with practical application, the program equips professionals with the expertise to excel in the rapidly evolving field of additive manufacturing and product design.



Professional Skilling Program on Tools & Equipment's to Instrumentation & Control Engineering Students

28-11-2022 to 10-12-2022

The Professional Skilling Program on Tools & Equipment for Instrumentation & Control Engineering Students offers comprehensive training in utilizing industry-standard tools and equipment. Participants learn essential skills such as calibration, troubleshooting, and maintenance of instrumentation devices. Through hands-on workshops and practical exercises, students gain proficiency in utilizing various measurement instruments, control systems, and software applications. The program emphasizes practical application, problem-solving, and teamwork, preparing students for real-world challenges in the field. By bridging theoretical knowledge with hands-on experience, the program equips students with the expertise needed to excel in instrumentation and control engineering roles across diverse industries.



Professional Skilling Program on Tools & Equipment's to Computer Communication Engineering Students

28-11-2022 to 10-12-2022

The Professional Skilling Program on Tools & Equipment for Computer Communication Engineering Students provides comprehensive training in utilizing industry-standard tools and equipment. Participants learn essential skills such as network analysis, troubleshooting, and configuration of communication devices. Through hands-on workshops and practical exercises, students gain proficiency in utilizing various networking tools, protocols, and software applications. The program emphasizes practical application, problem-solving, and teamwork, preparing students for real-world challenges in the field of computer communication. By combining theoretical knowledge with hands-on experience, the program equips students with the expertise needed to excel in computer communication engineering roles across diverse industries.

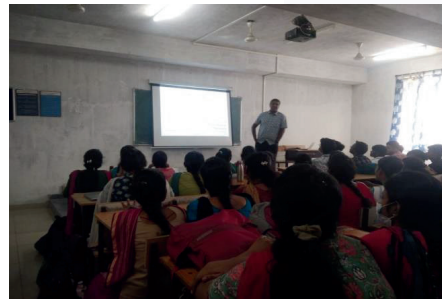




Ideation Workshop on Biomedical Product Development

03-12-2022 to 17-12-2022

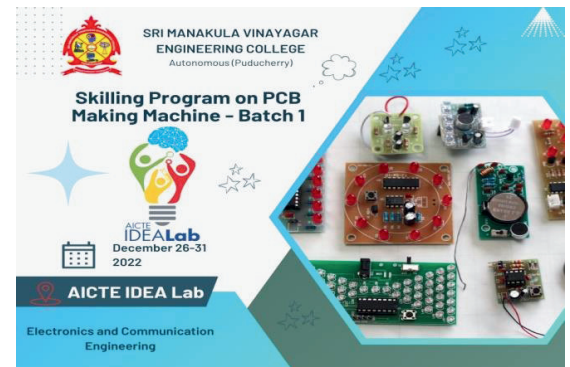
The Ideation Workshop on Biomedical Product Development fosters creativity and innovation in designing healthcare solutions. Participants engage in brainstorming sessions, hands-on exercises, and case studies to conceptualize and prototype biomedical products. Emphasizing interdisciplinary collaboration, the workshop integrates biomedical engineering principles with design thinking methodologies. Participants explore challenges in healthcare delivery, patient care, and medical technology, aiming to develop practical and impactful solutions. By encouraging critical thinking, problem-solving, and communication skills, the workshop equips attendees with the tools and mindset necessary to address current and emerging healthcare needs through innovative biomedical product development.



Skilling Program on PCB Making Machine-Batch 1

26-12-2022 to 31-12-2022

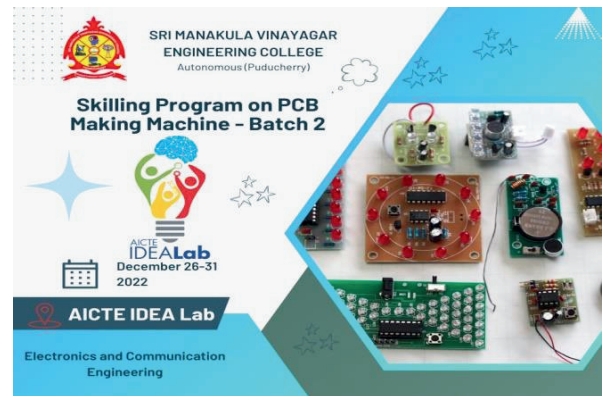
The Skilling Program on PCB Making Machine in Batch 1 offers hands-on training in the operation and maintenance of printed circuit board (PCB) manufacturing machines. Participants learn essential skills such as PCB design, fabrication, and assembly using industry-standard equipment. Through practical workshops and guided instruction, students gain proficiency in handling PCB making machines, including etching, drilling, and soldering processes. The program emphasizes precision, quality control, and adherence to safety protocols. By combining theoretical knowledge with practical experience, Batch 1 equips participants with the expertise needed to produce high-quality PCBs for electronic applications, fostering innovation and excellence in electronics manufacturing.



Skilling Program on PCB Making Machine-Batch 2

26-12-2022 to 31-12-2022

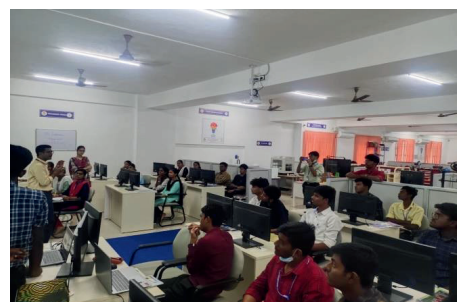
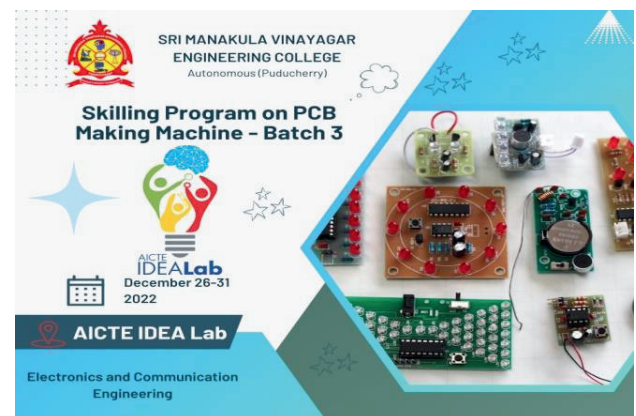
The Skilling Program on PCB Making Machine in Batch 2 provides advanced hands-on training in operating and maintaining printed circuit board (PCB) manufacturing machines. Participants delve deeper into PCB design, fabrication, and assembly techniques using state-of-the-art equipment. Through practical workshops and guided instruction, students refine their skills in etching, drilling, soldering, and quality assurance processes. The program emphasizes precision, efficiency, and continuous improvement in PCB production. Building on the foundation laid in Batch 1, Batch 2 enables participants to tackle more complex projects and challenges in electronic manufacturing. By enhancing expertise and practical experience, Batch 2 prepares participants for leadership roles in the industry.



Skilling Program on PCB Making Machine-Batch 3

26-12-2022 to 31-12-2022

The Skilling Program on PCB Making Machine in Batch 3 offers advanced training in operating and maintaining printed circuit board (PCB) manufacturing machines. Participants deepen their understanding of PCB design, fabrication, and assembly techniques using cutting-edge equipment. Through hands-on workshops and guided instruction, students refine skills in etching, drilling, soldering, and quality assurance processes. The program emphasizes efficiency, precision, and innovation in PCB production. Leveraging the experience gained in previous batches, Batch 3 enables participants to tackle complex projects and emerging challenges in electronic manufacturing. By fostering expertise and practical proficiency, Batch 3 equips participants for leadership roles in the dynamic electronics industry.

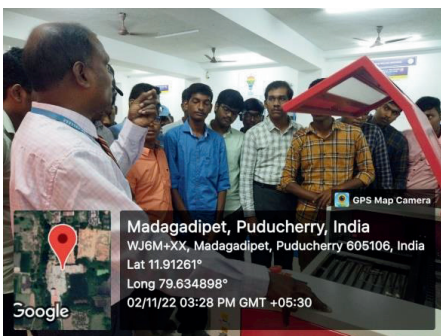




Skilling Program on PCB Making Machine-Batch 4

26-12-2022 to 31-12-2022

The Skilling Program on PCB Making Machine in Batch 4 offers comprehensive training in operating and maintaining state-of-the-art printed circuit board (PCB) manufacturing machinery. Participants delve into advanced PCB design, fabrication, and assembly techniques through hands-on workshops and guided instruction. They refine skills in etching, drilling, soldering, and quality control processes, emphasizing efficiency and precision. Building upon the foundation of previous batches, Batch 4 equips participants to tackle complex PCB production challenges and adapt to evolving industry demands. By fostering expertise and innovation, the program prepares participants for leadership roles in electronic manufacturing, driving excellence and advancement in the field.



Skilling Program to other Institute Students on Product Development

05-01-2023 to 13-01-2023

The Skilling Program for students from other institutes focuses on Product Development, offering comprehensive training in the entire product lifecycle. Participants learn ideation, design, prototyping, and testing methodologies through practical workshops and hands-on projects. Emphasizing creativity, problem-solving, and collaboration, the program equips students with the skills needed to innovate and bring ideas to fruition. By fostering an entrepreneurial mindset and providing exposure to real-world challenges, the program prepares students for careers in product development across various industries. Through a blend of theoretical knowledge and practical experience, participants gain valuable skills to excel in the dynamic field of product innovation.



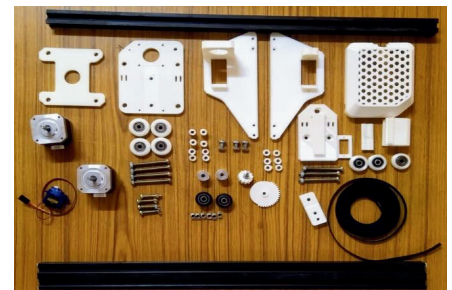
Skilling Program on IDEA LAB Tools & Equipments to MCA Students 09-01-2023 to 13-01-2023

The Skilling Program for MCA Students focuses on IDEA LAB Tools & Equipment, providing comprehensive training in utilizing cutting-edge technologies for innovation and problem-solving. Participants learn hands-on skills with equipment such as 3D printers, CNC machines, and prototyping tools. Through practical workshops and guided projects, students explore the integration of technology into creative solutions. Emphasizing creativity, critical thinking, and collaboration, the program prepares students for roles where they can leverage technology to address real-world challenges. By bridging theoretical knowledge with practical application, the program equips MCA students with valuable skills to thrive in the ever-evolving landscape of technology and innovation.



Skilling Program on IDEA LAB Tools & Equipments to Mechatronics Students 09-01-2023 to 13-01-2023

The Skilling Program for Mechatronics Students focuses on IDEA LAB Tools & Equipment, providing hands-on training in advanced technologies for interdisciplinary innovation. Participants learn to utilize cutting-edge tools such as 3D printers, CNC machines, and robotics platforms. Through practical workshops and guided projects, students gain proficiency in integrating mechanical, electrical, and computer engineering principles. Emphasizing problem-solving, creativity, and collaboration, the program prepares students for roles at the intersection of multiple disciplines. By bridging theoretical knowledge with practical application, the program equips Mechatronics students with the skills needed to excel in designing and developing innovative mechatronic systems for diverse industries.





Skilling Program on Tools & Equipment's to Electrical & Electronics Engineering Students

19-01-2023 to 24-01-2023

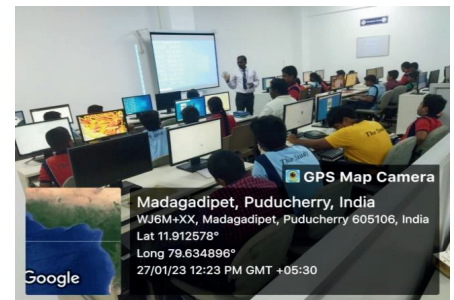
The Skilling Program for Electrical & Electronics Engineering Students focuses on Tools & Equipment, offering hands-on training in utilizing industry-standard tools and equipment. Participants gain practical experience with tools such as oscilloscopes, multimeters, soldering stations, and circuit simulation software. Through workshops and guided projects, students learn essential skills in circuit design, troubleshooting, and system integration. Emphasizing practical application, problem-solving, and teamwork, the program prepares students for real-world challenges in electrical and electronics engineering. By combining theoretical knowledge with practical experience, participants develop the expertise needed to excel in diverse roles within the field, driving innovation and advancement.



Skilling Program on Designing for 3D Printing with Fusion 360

27-01-2023 to 31-01-2023

The Skilling Program on Designing for 3D Printing with Fusion 360 offers comprehensive training in utilizing Fusion 360 software for 3D printing design. Participants learn advanced techniques for modeling, prototyping, and preparing designs for additive manufacturing. Through hands-on exercises and guided instruction, students explore the intricacies of designing for 3D printing, including optimizing geometries and creating support structures. The program emphasizes creativity, precision, and problem-solving, preparing participants to produce high-quality and functional 3D-printed objects. By bridging theoretical knowledge with practical application, the program equips professionals with the expertise to excel in the rapidly evolving field of additive manufacturing and product design.



Skilling Program to other Institute Students on Product Development 09-02-2023 to 13-02-2023

The Skilling Program for students from other institutes focuses on Product Development, offering comprehensive training in the entire product lifecycle. Participants learn ideation, design, prototyping, and testing methodologies through practical workshops and hands-on projects. Emphasizing creativity, problem-solving, and collaboration, the program equips students with the skills needed to innovate and bring ideas to fruition. By fostering an entrepreneurial mindset and providing exposure to real-world challenges, the program prepares students for careers in product development across various industries. Through a blend of theoretical knowledge and practical experience, participants gain valuable skills to excel in the dynamic field of product innovation.



Basic FDP to Host Institute on Faculty on PCB Making Autodesk Eagle 10-03-2023 to 18-03-2023

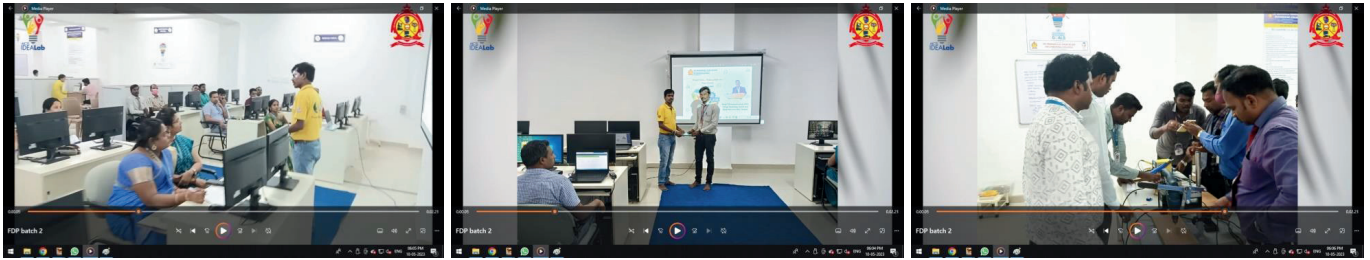
The Basic Faculty Development Program (FDP) for Host Institute focuses on training faculty members in PCB (Printed Circuit Board) design using Autodesk Eagle software. Through practical workshops and guided instruction, participants learn essential skills in schematic capture, PCB layout, and component placement. The program emphasizes proficiency in utilizing Autodesk Eagle for designing PCBs tailored to specific electronic applications. By bridging theoretical knowledge with hands-on experience, the FDP equips faculty members with the expertise to integrate PCB design into their curriculum and mentor students effectively. Ultimately, the program enhances the institution's capacity to produce skilled professionals in electronics engineering.



Basic FDP to Host Institute on Faculty on PCB Making Autodesk Eagle. Batch 2 10-03-2023 to 18-03-2023

The Basic Faculty Development Program (FDP) for Host Institute, Batch 2, focuses on training faculty members in PCB (Printed Circuit Board) design using Autodesk Eagle software. This program provides practical workshops and guided instruction on schematic capture, PCB layout, and component placement. Emphasizing hands-on experience, the FDP helps participants master Autodesk Eagle for creating precise and efficient PCB designs. By enhancing faculty skills, the program ensures they can effectively teach and mentor students in PCB design. Batch 2 builds on the foundation of the first batch, further strengthening the institution's capability to produce proficient electronics engineering professionals.





Ideation Workshop on Idea Lab Equipment's & Tools- To Develop Product Using Idea Lab

27-03-2023 to 08-04-2023

The Ideation Workshop on Idea Lab Equipment & Tools focuses on empowering participants to develop innovative products using state-of-the-art Idea Lab resources. This hands-on workshop introduces participants to various advanced tools such as 3D printers, CNC machines, laser cutters, and prototyping equipment. Through guided brainstorming sessions, practical exercises, and collaborative projects, attendees learn to conceptualize, design, and prototype their ideas. The workshop emphasizes creativity, problem-solving, and practical application, equipping participants with the skills and knowledge to transform their ideas into tangible products. By leveraging Idea Lab's capabilities, participants are prepared to drive innovation and bring their concepts to life.



Product Development Using 3D Printing & IOT

03-04-2023 to 08-04-2023

The "Product Development Using 3D Printing & IoT" program offers comprehensive training in integrating 3D printing and Internet of Things (IoT) technologies for innovative product creation. Participants learn to design and prototype products using advanced 3D printing techniques, while incorporating IoT components such as sensors, microcontrollers, and communication modules. Through hands-on workshops and practical projects, the program emphasizes creativity, problem-solving, and technical proficiency. By combining these cutting-edge technologies, participants gain the skills to develop smart, connected products that address real-world needs, preparing them for future roles in the evolving landscape of product design and technology.



Skilling Program to Other Institute Students on Product Development 12-04-2023 to 22-04-2023

The Skilling Program on Product Development for students from other institutes offers comprehensive training in the entire product lifecycle. Participants engage in hands-on workshops and practical projects, learning essential skills in ideation, design, prototyping, and testing. The program emphasizes creativity, problem-solving, and teamwork, equipping students with the ability to transform ideas into viable products. By exposing students to real-world challenges and fostering an entrepreneurial mindset, the program prepares them for diverse careers in product development. This blend of theoretical knowledge and practical experience ensures participants are well-equipped to innovate and excel in the dynamic field of product development.



Skilling Program on Design Thinking & Product Development 17-04-2023 to 24-04-2023

The Skilling Program on Design Thinking & Product Development equips participants with essential skills to innovate and create impactful products. Through interactive workshops and hands-on projects, students learn the principles of design thinking, including empathizing with users, defining problems, ideating solutions, prototyping, and testing. The program emphasizes creativity, critical thinking, and user-centered design, guiding participants through the entire product development process. By combining theoretical knowledge with practical application, the program prepares students to tackle real-world challenges, fostering an entrepreneurial mindset and enhancing their ability to develop products that meet market needs effectively.

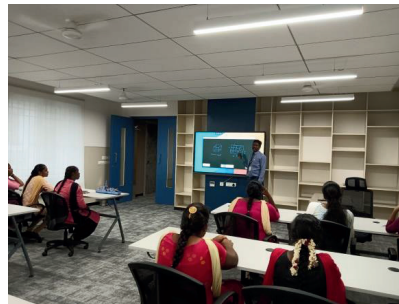




Professional Skilling Program on Tools & Equipment's to Bio-Medical Engineering Students

02-05-2023 to 13-05-2023

The Professional Skilling Program on Tools & Equipment for Biomedical Engineering Students provides hands-on training in using industry-standard biomedical tools and equipment. Participants gain practical experience with diagnostic devices, imaging equipment, and laboratory instruments. Through interactive workshops and guided projects, students learn essential skills in equipment operation, maintenance, and troubleshooting. The program emphasizes safety, precision, and innovation, preparing students for real-world applications in healthcare technology. By integrating theoretical knowledge with practical experience, the program equips biomedical engineering students with the expertise needed to excel in their field, enhancing their ability to contribute effectively to medical advancements and patient care.



Ideation Workshop on Biomedical Product Development

02-05-2023 to 13-05-2023

The Ideation Workshop on Biomedical Product Development equips participants with the skills to create innovative healthcare solutions. Through interactive brainstorming sessions, hands-on activities, and collaborative projects, attendees explore the fundamentals of biomedical engineering, design thinking, and prototyping. The workshop emphasizes creativity, problem-solving, and user-centered design, guiding participants from concept to prototype. By addressing real-world healthcare challenges, the workshop fosters an entrepreneurial mindset and encourages the development of practical, impactful biomedical products. Participants gain valuable insights and experience, preparing them to contribute effectively to advancements in medical technology and improve patient care outcomes.



Design Skill Workshop on 3D Design & Product Development

02-05-2023 to 13-05-2023

The Design Skill Workshop on 3D Design & Product Development offers participants hands-on training in creating and developing innovative products using 3D design software. Through interactive sessions and practical exercises, attendees learn key skills in 3D modeling, prototyping, and design optimization. The workshop emphasizes creativity, technical proficiency, and problem-solving, guiding participants through the entire product development process from concept to final prototype. By integrating theoretical knowledge with real-world applications, the workshop equips participants with the expertise needed to excel in fields such as industrial design, engineering, and manufacturing, fostering innovation and excellence in product development.



Hands-on Training in Recent Technology to HSC Students

08-05-2023 to 13-05-2023

The Hands-on Training in Recent Technology for HSC Students provides an immersive experience in cutting-edge technologies. Through practical workshops, participants gain exposure to fields such as robotics, artificial intelligence, 3D printing, and IoT. The program emphasizes interactive learning, allowing students to engage directly with advanced tools and software. By fostering creativity, critical thinking, and problem-solving skills, this training prepares students for future academic and career opportunities in tech-driven fields. The hands-on approach ensures that students not only understand theoretical concepts but also acquire practical skills, making them proficient in the latest technological advancements and innovations.





National Level Workshop on VLSI Design With VIVADO

08-05-2023 to 13-05-2023

The National Level Workshop on VLSI Design with Vivado offers intensive training in designing complex integrated circuits using Vivado software. Participants delve into key concepts of Very Large Scale Integration (VLSI) design, including FPGA synthesis, implementation, and verification. Through hands-on sessions and guided projects, attendees gain practical experience in developing digital circuits and systems. The workshop emphasizes proficiency in Vivado tools and techniques, equipping participants with essential skills for designing cutting-edge electronic devices. By providing insights into industry-standard practices and emerging trends, the workshop prepares participants for careers in VLSI engineering and fosters innovation in semiconductor technology.



Hands on Training in Signal & Image Processing in Electronics Section

02-06-2023 to 09-06-2023

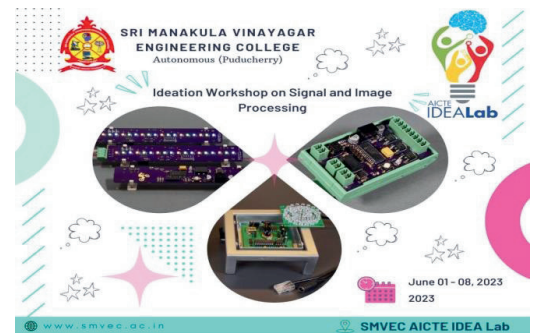
The Hands-on Training in Signal & Image Processing in the Electronics Section offers practical instruction in processing and analyzing signals and images. Participants learn fundamental concepts and techniques in digital signal processing and image processing through interactive workshops and guided projects. Emphasizing hands-on experience, the training covers topics such as filtering, feature extraction, and pattern recognition. By applying theoretical knowledge to real-world scenarios, participants gain proficiency in using software tools and algorithms for signal and image analysis. This training equips individuals with valuable skills for various applications in fields such as telecommunications, medical imaging, and multimedia technology.



Ideation Workshop on Signal & Image Processing

03-06-2023 to 10-06-2023

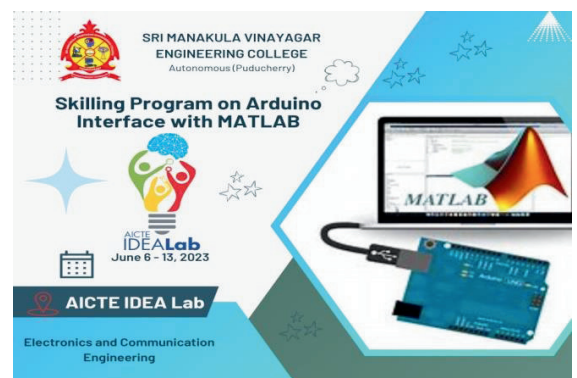
The Ideation Workshop on Signal & Image Processing fosters creative thinking and innovation in analyzing and manipulating signals and images. Through interactive sessions and brainstorming exercises, participants explore cutting-edge techniques and emerging trends in digital signal processing and image processing. The workshop emphasizes problem-solving, collaboration, and user-centered design, guiding participants to conceptualize novel applications and solutions. By addressing real-world challenges in fields such as telecommunications, healthcare, and multimedia, participants gain valuable insights and inspiration. The workshop cultivates an entrepreneurial mindset, empowering participants to develop impactful projects and contribute to advancements in signal and image processing technologies.



Skilling Program on Arduino Interface with MATLAB

06-06-2023 to 13-06-2023

The Skilling Program on Arduino Interface with MATLAB provides comprehensive training in integrating Arduino microcontrollers with MATLAB software for prototyping and control applications. Through practical workshops and hands-on projects, participants learn to interface sensors, actuators, and other peripherals with Arduino boards, and use MATLAB for data acquisition, analysis, and visualization. The program emphasizes practical application, problem-solving, and experimentation, empowering participants to develop custom solutions for real-world engineering challenges. By bridging theoretical concepts with hands-on experience, the program equips participants with valuable skills for designing and implementing innovative projects in various fields, including robotics, automation, and IoT.





Skilling Program on Microcontroller Prototypes with Arduino & a 3D Printer

08-06-2023 to 15-06-2023

The Skilling Program on Microcontroller Prototypes with Arduino & a 3D Printer offers hands-on training in creating prototypes using Arduino microcontrollers and 3D printing technology. Participants learn to design and program microcontroller-based systems, integrate sensors and actuators, and optimize designs for 3D printing. Through practical workshops and guided projects, attendees gain proficiency in prototyping techniques, troubleshooting, and iteration. The program emphasizes creativity, problem-solving, and technical proficiency, enabling participants to develop custom solutions for diverse applications. By combining microcontroller programming with 3D printing capabilities, participants are equipped to innovate and bring their ideas to life in fields such as robotics, IoT, and automation.



Product Development Using 3D Printing & IOT to Polytechnic Students

14-06-2023 to 28-06-2023

The Product Development Using 3D Printing & IoT program introduces Polytechnic Students to the integration of 3D printing and Internet of Things (IoT) technologies in product development. Participants learn to design, prototype, and deploy smart, connected products using hands-on workshops and practical projects. Emphasizing creativity, problem-solving, and technical proficiency, the program equips students with the skills to innovate and address real-world challenges. By combining 3D printing capabilities with IoT concepts, participants gain valuable experience in developing cutting-edge products for various industries. This comprehensive training prepares Polytechnic Students for future roles in technology-driven innovation and entrepreneurship.



PHOTO GALLERY







SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)



AWARDS

2022

- Best Performing Institute Award from MHRD
- Academic Partner Excellence from ICT Academy

2021

- Received 4 Star Rating from IIC -MHRD Innovation Council
- AICTE LELAVATI Award
- Edufuture Excellence Award
- Virtusa Campus Partner

2019

- Best Performing Institution
- Best Engineering College
- Appreciation for excellence in empowering faculty members in Digital Teaching Empowerment during Covid 19 pandemic
- Recognized as Mentor Institute by AICTE for quality improvement of Mentee Institutes
- India “5000 Best MSME Award 2019” for Quality Excellence
- Academic Partner Excellence Award from ICT Academy
- Appreciation for Employment Exchange Career Guidance Exhibition from Government of Puducherry

2018

- Received Sustainable Institute Industry Partnership Award
- Academic Partner Excellence Award from ICT Academy
- Appreciation for Employment Exchange Career Guidance Exhibition from Government of Puducherry
- India’s Education Excellence Award from Beginup Research Intelligence Private Limited

RANKING	Rank	Ranking Body	Ranking Type (college or course specific)	Ranking Year
	151-300 Band	Ministry of Human Resource Development, Government of India	NIRF innovation Category	2023
	165	India Today Magazine	Best Private Colleges – Engineering	2023
	AAA	Career 360 Magazine	Best Engineering College in Puducherry	2023
	AAA	Career 360 Magazine	Best Engineering College in Puducherry	2022
	59	DataQuest Magazine	Top 100 Government T-Schools Overall (Government and Private)	2022
	48	DataQuest Magazine	Top 100 Government T-Schools Private in India	2022
	213	India Today Magazine	Best Private Colleges – Engineering	2022
	Band- Excellent Category	Ministry of Human Resource Development, Government of India	Band- Excellent Category for our Innovation and Achievements	2021
	Band- B	Ministry of Human Resource Development, Government of India	Band- B Category for our Innovation and Achievements	2020
	57	DataQuest Magazine	Top 100 Government T-Schools Overall (Government and Private)	2020
	155	India Today Magazine	Best Private Colleges – Engineering	2019



A Stimulating Place to Learn and Practice Technology



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
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