

Institutional Distinctiveness

Sir Issac Newton College of Engineering and Technology (SINCET), established in 2011 and operated by the Thandapani and Pillai educational trust, stands as an AICTE – approved institution affiliated with Anna University, over the course of 14 years, SINCET has attracted aspiring engineers from various corner of the nation, creating a desirable educational space. The aim of SINCET is to roster comprehensive skill development among on students through a wide range of initiative. These encompass value added courses, enhancement of communication skill, immersive institutional visit and the identification of specific subject related challenges to transform them into innovative design and development model (mini project). Through these activities provided by the institution, students are empowered to emerge an adept engineers and aspiring entrepreneurs. The approach aim to elevate students to attain high economic and societal status, thereby create a smart and skill potential are ready to make a positive impact in the world.

Skill development Programme:

Sir Issac Newton College of Engineering and Technology (SINCET) offers a range of skill Development Program aimed at enhancing student's ability for career advancement and creating opportunities for self-employment. These Program includes robotics, assembling and dismantling techniques for the fan , laptop and air condition unit , Autocad 2D modeling scratch programming & electrical wiring institution allocates 60 hours per semester for these skill development program, Provide students with comprehensive training & practice experience these initiative are design to equip students with valuable skill, prepare them for successful carrier and empower them to explore entrepreneurial opportunities in their respective field.

- **Autocad 2D modelling:** It is a fundamental tool in engineering and design. This program covers the essential of Autocad, providing students with the comprehensive understanding of 2D modeling, technical drawing, layering techniques, dimension& utilization of various commands for detail design criteria.
- **Dismantling & Assembling:** Through hands on approach, the students learn the art of dismantling & assembling devices. Such as laptop, fan & air condition units. They understand the mechanism, components & trouble shooting method.

- **Robotics:** Our institution offers both theoretical insights and practical exercises in robotics to students. They delve into various aspects including robot anatomy, programming, sensor integration, and the design aspects of functional robotic systems.
- **Electrical wiring:** Our institution covers fundamental concepts of electrical circuits, safety protocols, wiring configurations, and installation techniques. Practical training involves hands-on exercises in circuit connectors, troubleshooting, and understanding electrical installations.
- **Scratch programming:** This program introduces students to coding fundamentals using a trending visual interface. It focuses on empowering students' thinking and problem-solving abilities. Through this program, students create games, animations, explore creativity, and enhance logical reasoning skills.

Industrial Visits:

Our institution emphasizes experiential learning through industrial and institutional visits, providing invaluable practical knowledge to students. These visits encompass exploration of NIT and IIT campuses, allowing students to immerse themselves in cutting-edge labs focusing on design validation, advanced manufacturing, automation, and electrical practices. Such visits facilitate hands-on experiences in test optimization, instrumentation, mechatronics, CNC, robotics, and technology. Moreover, our internship program at KVK, Nagapattinam, engages agricultural engineering students actively. This internship exposes students to hands-on experiences in vermicomposting, mushroom cultivation, precision farming, greenhouses, and hydroponics. These structured visits and internships, integral to our educational approach, offer students real-world exposure within their field of study.

Entrepreneurship Development (Value Added Course):

To foster and enhance entrepreneurial aptitude among students, this program aims to instill fundamental entrepreneurial competencies and comprehension for proficient and successful business management. The course encompasses various aspects of business motives, financing, accounting, and support for entrepreneurs. Upon completion, students will acquire the necessary knowledge and skills to effectively manage a business. This programme serves as a foundational guide, offering students comprehensive insights into entrepreneurship. It empowers

them with practical knowledge, enabling them to develop, manage, and grow successful businesses. The emphasis on motivation, business setup, financial management, and support strategies equips students to navigate the challenges of the entrepreneurial landscape. The course's practical approach, supported by comprehensive textbooks and references, provides students with the necessary tools to pursue their entrepreneurial aspirations confidently.

Communication Skills:

A communication skills program is conducted each semester, providing students with essential communication skills. This program covers diverse areas such as time management, interview preparation, resume building, stress management, public speaking, leadership skills, and money management. All these aspects were comprehensively covered, enabling students to successfully acquire these skills. Consequently, they are well-prepared for employment and proficient in English speaking. This program has equipped them with valuable knowledge and skills.

Evidence of Achievements:

The program encompasses a range of initiatives including skill development, value-added courses, communication skills enhancement, placements, and industrial visits, all aimed at enriching students' knowledge. A key aspect involves students engaging in the creation of developmental models (miniprojects) as part of their research activities. Such research proves crucial for societal progress, providing a path for innovation and practical application of theoretical learning.

Notably, students actively participate in international and national conferences hosted by renowned institutions. Their commendable achievements in these forums, winning prizes in quizzes, project development, cultural events, and sports, underscore their holistic development and academic expertise. Moreover, the program create an impressive success rate, with 85% of SINCET students securing placements in esteemed companies such as NCR, NIYATA, NOBAL, JBM, and DEWAS. This remarkable outcome showcases the program's effectiveness in preparing students for the professional specialty, bridging the gap between academia and industry demands. The hands-on experience from industrial visits, along with learning important skills, shows that the program is working well. It helps students gain the knowledge and

confidence they need to do well in tough job settings. This is making a big difference in their careers and also benefits society as a whole.



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