

SAKTHI POLYTECHNIC COLLEGE, SAKTHINAGAR – 638315

DEPARTMENT OF CIVIL ENGINEERING

CENTRE FOR GEOSPATIAL SPC

ACTIVITIES

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1. REPORT ON ONE-DAY WORKSHOP ON HANDS ON TRAINING WITH DIGITAL SURVEYING EQUIPMENTS (2023-2024):

The Department of Civil Engineering at Sakthi Polytechnic College organized a on One-Day Workshop on Hands on Training with Digital Surveying Equipments(Drone, DGPS & Lidar)associated with Land Coordinates Technology" Chennai on. 27.10.2023

Objective:

- To educate students about the latest technologies in digital surveying
- To provide hands-on experience with land coordinates technology

Workshop Details:

- ✚ Duration: One day
- ✚ Participants: 90 students from Civil Engineering department
- ✚ Resource Person: A.Selvam, Managing Director, Land Coordinates Technology, Chennai, expert in digital surveying

Topics Covered:

- ❖ Introduction to digital surveying
- ❖ Land coordinates technology
- ❖ Applications of digital surveying in civil engineering
- ❖ Hands-on session with digital surveying tools and software

The one-day workshop on digital surveying was successful in educating students about the latest technologies in digital surveying and providing hands-on experience with land coordinates technology. The department looks forward to organizing more workshops to enhance students' skills and knowledge.



(2)Sakthi Polytechnic College Erode Signs MOU with Land Coordinates Technology Chennai (2023-2024):

- Centre for Geospatial SPC to be Established, Students to Receive Training on Drone Surveying.
- Sakthi Polytechnic College, Erode, has signed a Memorandum of Understanding (MOU) with Land Coordinates Technology, Chennai, to establish a Centre for Geospatial SPC at the college. The collaboration aims to provide students with advanced training in drone surveying and geospatial technology.
- The MOU was signed by Principal, Sakthi Polytechnic College, and Mr.A.Selvam, Managing Director, Land Coordinates Technology, in the presence of faculty members and students.
- The Centre for Geospatial SPC will offer hands-on training to students in drone surveying, mapping, and geospatial data analysis. The training will be conducted by experts from Land Coordinates Technology, who will share their industry experience and expertise with the students.
 - This collaboration will enhance the skills and knowledge of students in the field of geospatial technology, making them industry-ready and employable. The centre will also facilitate research and development in geospatial technology, benefiting the academic and industrial communities.

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3. Value-Added Certificate Course on Digital Surveying (Drone & DGPS) on 05.08.2025 to 08.08.2025

The Centre for Geospatial SPC, in collaboration with the Department of Civil Engineering and Land Coordinate Technology, Chennai, successfully organized a comprehensive Value-Added Certificate Course on Digital Surveying (Drone & DGPS). This intensive four-day program, held from August 5th to August 8th, 2025, from 9:00 AM to 5:00 PM regularly, was designed to equip participants with advanced skills in modern surveying techniques. A total of 31 participants, comprising students and professionals, benefited from the hands-on training and theoretical sessions.



The course commenced with a distinguished inaugural function on August 5th, 2025. Dr. R. Shanmugam, the Head of the Department of Civil Engineering, delivered the welcome address, setting a professional and encouraging tone for the event. The Presidential Address was delivered by Dr. S. Senthil Arasu, Principal, who highlighted the growing importance of digital surveying in the field of civil engineering.

Dr. K. R. Muthuswamy, Director, graced the occasion with a felicitation address, underscoring the course's relevance to industry demands.



The training sessions were expertly led by Mr. A. Selvam, the Managing Director of Land Coordinate Technology, Chennai, and his proficient team. The resource persons provided in-depth instruction on the practical application of drones and Differential Global Positioning System (DGPS) technology. Participants demonstrated a keen interest in operating the equipment, particularly the drones and DGPS units, and in learning to process and map the collected data using specialized software. This hands-on approach ensured that all participants gained valuable, practical experience, which is critical for real-world application.



The course concluded with a valedictory function and certificate distribution ceremony on August 8th, 2025. The participants received certificates acknowledging their successful completion of the course, a testament to their dedication and hard work. The program was meticulously organized and executed, thanks to the dedicated efforts of Mr. V. Manimuthu, the Coordinator of the Centre for Geospatial SPC.



The success of the program was a collective effort. The organizing team extends its gratitude to the staff coordinators, Mr. M. Chandran, Lecturer/Civil, and Mrs. M. Mallamma, Head of the Department of Agricultural Technology, for their unwavering support. Special thanks are also due to the organizing team members: Mrs. C. Sowmitha, Mr. P. Dhanasekaran, Mr. S. Marimuthu, Mr. P. G. Sanjaiprasath, and Miss. K. Monisha, whose diligent and tireless efforts were instrumental in the successful conduct of the event.



4. Innovating Agriculture: The Launch of a Certificate Course on Drone Technology on 16.09.2025

The Centre for Geospatial SPC, a collaborative initiative between the Civil Engineering and Agricultural Technology departments, successfully launched a four-day Value-Added Certificate Course on "Drone Applications for Sustainable Agriculture" for agricultural technology students. The program's core objective is to equip students with practical skills in using modern geospatial technology to advance sustainable farming practices.



The inaugural ceremony commenced with a welcome address by Dr. R. Shanmugam, Head of the Civil Engineering Department, who highlighted the course's importance in bridging the gap between traditional agriculture and cutting-edge technology. The event was presided over by Dr. S. Senthilarasu, the esteemed Principal, who emphasized the institution's commitment to providing students with industry-relevant skills. Dr. K. R. Muthuswamy, the Director, delivered a felicitation address, congratulating the organizing team on their initiative. The keynote address was delivered by the chief guest, Mr. A. Selvam, Managing Director of M/s Land Coordinates Technology, Chennai, who provided valuable insights into the practical applications of drone technology in the agricultural sector.



The program was meticulously organized by the dedicated staff members of the Civil Engineering and Agricultural Technology departments, ensuring a comprehensive and enriching learning experience for all participants. The course will cover various aspects of drone operation, data collection, and analysis, empowering students to contribute to the future of sustainable agriculture.