Executive Summary

Curriculum, Instructional Materials, Learning Processes, and Assessment
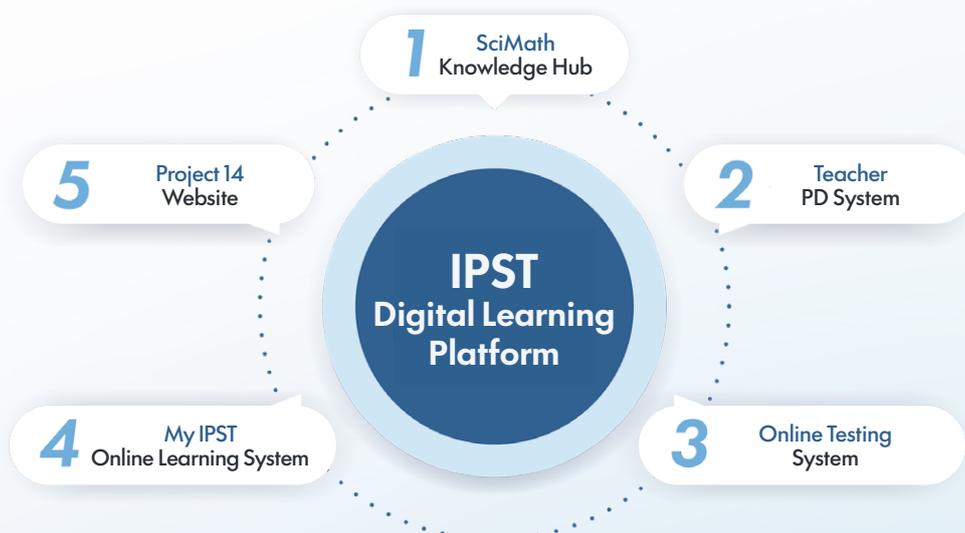
IPST developed curricula, instructional materials, and learning management processes emphasizing Active Learning to equip learners with key competencies aligned with curriculum objectives. A total of 159 outputs were produced, including the development of Artificial Intelligence (AI) curricula for primary and lower secondary levels. IPST also collaborated with the National Electronics and Computer Technology Center (NECTEC) to organize teacher training programs aimed at promoting AI technology learning in classroom settings.

In the area of assessment, IPST organized "Formative Assessment Showcase 2025: from Knowledge Sharing to Classroom Practice" conference, providing an opportunity for teachers to present their work and exchange best practices in formative assessment for learner development. In collaboration with the Office of the Basic Education Commission (OBEC), IPST also conducted training programs on the construction and development of literacy assessment items in reading, science, and mathematics at the lower secondary level to prepare teachers and educational personnel for participation in PISA 2025.
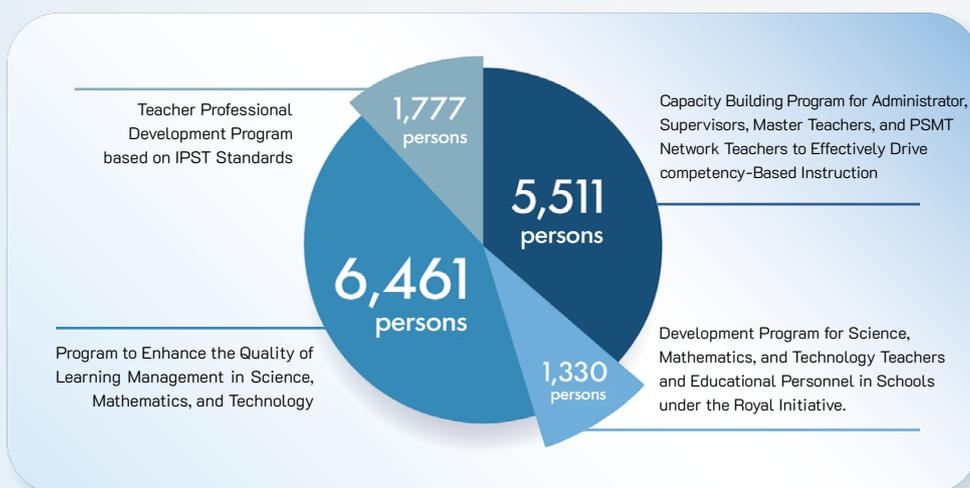

Development of Digital Learning Platforms

IPST disseminated digital learning resources through Science, Mathematics, and Technology Learning Platform, accessible via the IPST Digital Learning Platform homepage (https://learningspace.ipst.ac.th). The platform comprises four systems and one website, attracting over 20.57 million visits, demonstrating its robust potential and continuously expanding digital media reach.

IPST Digital Learning Platform

1. SciMath Knowledge Hub
2. Teacher PD System
3. Online Testing System
4. My IPST Online Learning System
5. Project 14 Website

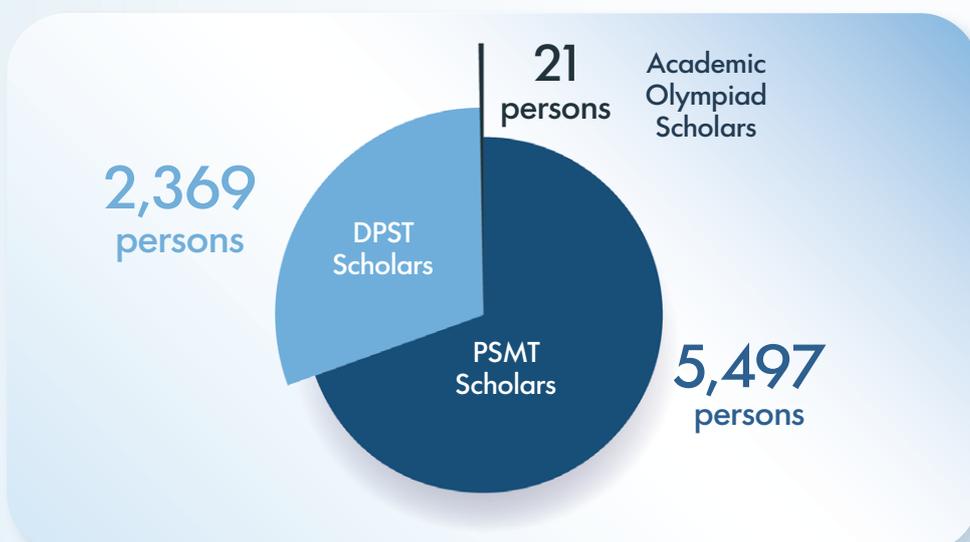# Teacher and Educational Personnel Development to Enhance Learning Quality

IPST strengthened the capacity of teachers and educational personnel in science, mathematics, and technology by focusing on professional development that enables teachers to serve as effective learning facilitators capable of fostering learner competencies. The initiatives covered school administrators, master teachers, teachers under royal initiative projects, teachers participating in quality enhancement projects, and personnel engaged in research capacity development. A total of 15,079 personnel participated in these development programs.

Teacher Professional Development Program based on IPST Standards — 1,777 persons

Capacity Building Program for Administrator, Supervisors, Master Teachers, and PSMT Network Teachers to Effectively Drive competency-Based Instruction — 5,511 persons

Program to Enhance the Quality of Learning Management in Science, Mathematics, and Technology — 6,461 persons

Development Program for Science, Mathematics, and Technology Teachers and Educational Personnel in Schools under the Royal Initiative. — 1,330 persons

Development and Promotion of Gifted Individuals in Science, Mathematics, and Technology

IPST systematically and continuously nurtured and promoted gifted and high-potential youth in science, mathematics, and technology from primary through higher education levels. A total of 6,117 students received development and enrichment support. IPST also closely supervised and supported 1,887 scholarship recipients studying both domestically and internationally, ensuring their full potential development.

Through its sustained efforts, IPST has produced 7,887 scientists, researchers, technologists, and experts in science, mathematics, and technology.

Academic Olympiad Scholars — 21 persons

DPST Scholars — 2,369 persons

PSMT Scholars — 5,497 persons

Organizational Excellence Development

IPST enhanced personnel knowledge, skills, and competencies while fostering innovation through the annual IPST Innovation Awards 2025, "The IDEAR Awards: Change for the Better," and knowledge management initiatives (The Rabbit Awards). In the area of information technology systems, IPST developed 25 service and management systems.

Furthermore, IPST emphasized quality management and good governance. Organizational performance evaluation results were rated very good. The evaluation of public organizations conducted by the Office of the Public Sector Development Commission (OPDC) received a good rating.

In addition, the Public Sector Management Quality Award 4.0 (PMQA 4.0) assessment achieved a standard rating, while the Integrity and Transparency Assessment (ITA) received a "pass with good" rating.

In terms of corporate communications, IPST produced and disseminated learning materials and news, upgraded communication channels and its website to ensure modernity, accessibility, and security, and organized science, mathematics, and technology awareness activities and exhibitions in collaboration with various agencies to broadly disseminate knowledge to the public.