

Strategic Plan for TISIP 2018–2023

Adopted by the Board, 01.10.2018



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The strategic plan target group is customers, partners and other stakeholders.

TISIPs purpose, the articles of association, §3:

TISIP aims to conduct research, education and dissemination where the main focus is on information technology, ICT. TISIP will contribute to ensuring that the need for research, investigation, education and dissemination of the private and public sector are met through TISIP's own efforts, and together with Norwegian and international educational institutions wishing to participate in such cooperation.

TISIP is a not-for-profit foundation and does not have financial gain as its main purpose. Profits and capital return are used for meeting its goals and to support professional ICT business activities for employees and students in TISIP and institutions with which TISIP cooperates.

TISIP was established on 17 December 1985. TISIP was created by Trondheim Engineering College and Sør-Trøndelag University College, Department of Computer Science and E-learning. The foundation is now an independent R&D institution.

Strategies for R&D



The aim of research in TISIP is to build new knowledge with a socially useful perspective. Research takes place in an international environment with the main focus being in the EU/EEA area. We link local issues with global research topics. TISIP covers research needs in industry and for public sector users. Our strongest expertise is linked to digitalization and organizational development through learning and teamwork. We develop and customize advanced ICT solutions as tools for development processes.

TISIP was approved as an independent research foundation by the Norwegian Research Council in August 2018.

Research topics

TISIP researches topics in e-learning, ICT and human interaction and entrepreneurship. TISIP has more than 25 years of experience in participating in international e-learning projects. TISIP has participated in projects under Socrates Minerva, the e-learning program, Leonardo, Erasmus+ and in the EU's framework program. We are expert in application writing and our role has been both as project coordinator and as a partner. The research has been documented through various publications, often in collaboration with NTNU. Our e-learning solutions are used at universities, colleges and in business.

E-Learning

- Concurrent E- Learning Design (CCeD)
- Organization of e-learning
- Business Models
- Pedagogy in e-learning
- E-learning platforms
- Tools (publishing, video, streaming, collaborative tools, etc.)

Collaboration

- Interdisciplinary problem solving
- Software for teamwork
- Concurrent Design - Method for teamwork
- Collaboration related to e-learning, subject development, study development, tendering processes

ICT

- Development of support systems for distance learning
- Methods of operating computer systems, including security
- Software solution

Entrepreneurship

- Online-based entrepreneurship training across borders
- Web-based entrepreneurship training for different audiences

Partners:

- Uninett
- NTNU
- Nord Universitet
- UNIconult
- Mittuniversitetet, Østersund
- Anne Fox ApS, Nimtofte - Danmark
- University of Rome, La Sapienza
- Alexander Technological Educational Institution of Thessaloniki
- University of Greenwich, London
- Fachhochschule Koblenz, RheinAhrCampus Remagen, University of Applied Sciences
- CENFIM, Lisboa
- Baltic Education Technology Institute (BETI), Vilnius, Litauen

TISIP vocational school



The purpose of the TISIP vocational school is to offer approved vocational education in accordance with the Law on Vocational Education (Professional Education Act 1.7.2018). The trainings will cover areas where TISIP has expertise and where it is in demand in business. TISIP has 4 vocational college trainings with credits approved by NOKUT. Of these trainings, three are online and one is taught on campus. With the introduction of ECTS credits in vocational education, it is easier to use a vocational school education as the basis for further studies at universities and colleges.

Themes

Classroom trainings of 26 weeks duration:

- IT administrator

Online-based training of 20 weeks duration:

- IT operations and infrastructure

Online 2-year training:

- IT operations
- IT sales

The vocational school emphasizes that trainings should be practical and vocationally relevant.

Audiences

The vocational school is aimed both at first-stage students from upper secondary schools and adults who need new skills or to document existing skills. The aim is that the students can go straight to work after completion.

Learning Environment


TISIP has 25 years' experience of offering online studies. We have developed extensive study materials and our teachers have written 17 Norwegian textbooks in ICT. We communicate with the students using learning platforms such as IT's Learning or Moodle. We have a modern and well-equipped computer lab. For online communication, we use multimedia rooms and software such as Adobe Connect and Skype. We cooperate with NTNU on the development of the learning environment.

Expenses

TISIP vocational school is a private sector provider, without public support. Revenue for running the vocational school services must therefore come from the student's own financial resources. The courses are approved by the Norwegian State Educational Loan Fund and students are granted student loans for tuition and living expenses. Some students are also able to apply to NAV for support.

TISIP is a member of Abelia's Forum for Vocational Schools. The vocational school forum works in opposition to ministries, NOKUT and political authorities. The aim is to achieve public support and equality between public and private providers. The Forum for vocational schools also develops common solutions for study contracts, complaints, etc.

Concurrent design (CCD) and e-learning



TISIP has a long tradition of developing courses, especially in ICT. Through years of research and development, TISIP has acquired extensive expertise in the development and production of e-learning. This competence has now been used to advantage by adapting the Concurrent Design method for e-learning, known as CCeD, Concurrent e-learning design. The purpose of this strategic focus area is to assist different private and public providers in the development of new e-learning opportunities.

Concurrent e-learning Design is a method that enables professionals in the fields of education, administration, technology, accounting and marketing to develop comprehensive training opportunities jointly, with the help of computing tools and structured activities. The method supports the development of both online-based training and more traditional campus-based learning. The CCeD method also ensures that stakeholders and users of the training are consulted and involved in the development of the course.

TISIP was approved as a public online school by Skills Norway (former Vox) from May 2013.

TISIP services can cover:

Training:

- CCeD method
- Distributed cooperation
- Training as facilitator in the CCeD method

Rental of fully equipped collaboration room with or without a facilitator.


E-learning:

- Design and development of e-learning courses
- Facilitation and support in developing e-learning units using CCeD
- Customized enterprise-adapted e-learning
- Adaptation and production of study materials
- Developing sustainable models for e-learning

Human resources

All staff in TISIP have been involved in the development work of our method for Concurrent e-learning Design. To date, we have carried out many assignments and projects at national and international level using the CCeD method. TISIP has designed and developed a range of e-learning modules of high quality. Much of our work has been documented through several scientific and popular science articles.

Web-based individual subjects and courses



TISIP should not be a course factory. We wish to offer quality courses based on the knowledge of outstanding researchers or practitioners in the ICT and e-learning. The purpose of the course activities is to cover the need for new knowledge in companies, government agencies and individuals. The courses should be vocational and provide value in the short term. The end result is documented with a course certificate or ECTS study points.

Through its employees, TISIP has a wealth of knowledge and long experience in different areas of expertise. Over a number of years, TISIP has shown that they can create individual subjects and courses that cover knowledge needs in companies, government agencies and individuals. The courses can be offered online, physically at the desired location or both. TISIP offers courses they have developed based on market needs but can also customize courses to the individual customer if appropriate.

IT operations

IT operations are an area of rapid development. Through its professional training, TISIP has developed a broad range of trainings in the field of security operation and security within IT systems. TISIP offers individual subjects and courses within this subject area. With the use of modern technology, TISIP offers courses that provide knowledge and skills in IT operations through online solutions. We combine technological curiosity and continuous professional updating with practical and educational facilitation in a good way.

FITS

FITS is a framework for ICT technical support. FITS is specifically designed for the school sector and is based on the ITIL standard. The target group for FITS is the system manager and heads of ICT business in schools, both employees in municipalities and county municipalities, but also those designated at each school.

TISIP has entered into an agreement with the Center for ICT in education to be a provider. TISIP are Certified Course providers in Part-1, Practitioner, and Part-2, Administrator. The courses are classroom based, with 2 days for Practitioner and 3 days for Administrator. TISIP has translated and adapted Norwegian textbooks from English. It is possible to take the certification test at TISIP.

TISIP can offer individual courses, but also arranges courses in cooperation with the school management.



Use of the CCD / CCeD method

Going from traditional project implementation to multidisciplinary teamwork requires training. This applies both to the role of process participant and as organiser and facilitator. This requires both understanding of human interaction and knowledge about how different technologies can be used and interact together as required.

TISIP has participated in developing the method in the Norwegian context. Courses in CCD and CCeD are offered by our experts that are both engaged in the development and practical implementation of the method. The CCD experts associated with TISIP are Professor Thorleif Hjeltnes, researcher Knut Arne Strand, Associate professor Tor Atle Hjeltnes and Assistance Professor Monica Storvik.

Other ICT courses

TISIP has written 17 Norwegian textbooks on ICT. Most of the textbook authors teach the subjects at NTNU. It is possible to arrange courses and seminars where this special competence will be available at course providers. Examples of such courses are Databases, ITIL, Programming in C ++, Java, PHP, modern methods for system development, etc.



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