# Software Engineering and Internet Technologies Laboratory

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**The Software Engineering and Internet Technologies (SEIT) Laboratory** focuses its research activities on two important areas of Information Technology, namely Software Engineering and Internet Technologies. In the first area, SEIT focuses on Cloud Computing, Service Oriented Architectures, Context-Aware Middleware Platforms and Smart and Mobile Computing for the development of pervasive, self-adaptive applications and Smart IoT services. In the second area, the Laboratory concentrates on the development of ICT-enabled Creativity and Enhanced Learning Environments, platforms and tools for implementing Health monitoring and support services, Smart and Personalised services for older adults, Assistive Technologies for people with disabilities and Creativity services. The lab also pursues activities related to Technology Enhanced Learning, E-Business, E-Government and developing environments for elders' social inclusion, active ageing, and independent living. The lab also conducts research on Creativity tools, Recommender Systems and Crowd Sourcing.

**Participation in the 2021-2027 Erasmus+ Programme**

SEIT has extensive experience in the area of applying ICT (Information and Communication Technologies) to e-Learning, m-Learning, Blended Learning and Open and Distance Learning in general as well as Lifelong Learning in particular. This expertise is both at technical level and at developing policies and qualification frameworks for such activities.

SEIT has recently coordinated ten ERASMUS+ projects (VeLoCiTy, World-of-Physics, DiFens, IDEA, wINGS, CHAT2LEARN, CHILD, DigiComPass, AvatarSEN and MineTOUR) and currently coordinates three ongoing projects: VR workouts, Social Club and VR4STEM – the latter two in collaboration with the European Office Cyprus. In addition, SEIT participates in 12 more Erasmus+ projects.

Regarding Erasmus+ related themes, SEIT has participated so far in 13 Leonardo da Vinci projects, 3 EUMEDIS projects, 2 FP (Framework Programs), 1 INCO-DC and 3 projects funded by national funds. It has also participated in the EMUNI project ENPI/2009/226-479 (http://enpi.emuni.si/home) and the VUSCC initiative (http://www.vussc.info/) by COL (http://www.col.org/), both related to policy making or reform and qualifications accreditation. It has also participated in the Interreg IVC project Innofun, on developing policies and techniques for entrepreneurship and innovation. SEIT has recently participated in two AAL projects: eSticky, and GUIDed, and in one national project: ReaDI-STANCE, all of them related to different themes of the ERASMUS+ programme.

For the 2021-2027 programme, the Laboratory is strongly interested in participating in proposals related to the above areas of expertise and addressing the following Erasmus+ priorities:

From Key Action 2, Partnerships for Cooperation, including Cooperation Partnerships and Small-scale Partnerships; Partnerships for Excellence, including Centres for Vocational Excellence and Teachers Academy; Partnerships for Innovation, including Alliances and Forward-looking projects.

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## Important SEIT Projects Related to Erasmus+ Themes:

**SCICHALLENGE HORIZON 2020:**
The project focuses on developing novel concepts to actively integrate young people in science education using a contest-based approach to self- produced digital education materials from young people for young people. https://www.scichallenge.eu/

**EASIER Erasmus+, Knowledge Alliances:**
EASIER involves higher education institutions and companies that will, for the first time, bring together different training technologies to provide a multi-skill learning experience for surgical and interventional education. This Knowledge Alliance proposes an innovative solution for teaching and learning technical and nontechnical skills based on TEL. www.easier-project.eu/

**WINDEXT Knowledge Alliance Project:** The goal of the present project is to develop specialized training that will allow reducing the LCOE (Levelized Cost of Energy) by reducing the OPEX (Understanding Operating Expenses), increase the quality of O&M services while extending the lifetime of the assets and the working conditions of the maintenance personnel. https://www.windext.com/

**The Digi4Me Erasmus+ (Knowledge Alliance) project's main aim** is to address the gap in skills of the health sector workforce and provide an innovative training framework with a certification scheme. https://digi4me.eu/

**In the frame of the DigiCompass project (SEIT Lab Coordinator):** a curriculum covering the items: Information and data literacy, Communication and collaboration, Digital content creation, Safety and Problem solving will be developed.

**CHILD Erasmus+ (SEIT Lab Coordinator):**
recognizes that excellence in preschool education requires training for gaining skills and resources to apply them. The aim is to train preschool staff in open education, social engagement, professional development, ethics, and impact. CHILD produces a Web-based digital environment,for teaching and a handbook in DAP. http://child-project.cs.ucy.ac.cy/

**The CHAT2LEARN Erasmus+ project (SEIT Lab Coordinator):** focuses on technology-enhanced learning, incorporating chatbot technologies and AI-based tools in adults' education. https://chat2learn.eu/

**The T4SVEN Erasmus+ project** aims to develop a methodological framework and pilot an online training course to support VET teachers in applying digital technologies to sector-specific skills training in digital or blended learning environments. https://t4sven.eu/

**The main aims of the HEPA4ALL Erasmus+ projec**t are to identify the long-term measures required to encourage high-level inclusive participation in adapted health-enhancing physical activities (HEPA) from all segments of society, including disabled and disadvantaged people. http://hepa4all.eu/

**The TOVID Erasmus+ project** will address an unmet need –relevant, practical, Continuing Education accessible in mediums other than face-to-face. This is especially essential in the Covid-19 era for busy academics and short-staffed hospitals and long-term care workers. https://tovid.cs.ucy.ac.cy/

**IDEA - Innovative Direction in Energy Advising Erasmus+, Strategic Part- nership for adult education (SEIT Lab Coordinator):**
The objective of the project is to improve the quality of practices in the education of adults on the challenges and opportunities related to energy poverty eradication. www.project-idea.eu/

**DiFens Erasmus+ (SEIT Lab Coordinator):**
The DiFens project concept is to elaborate such comprehensive, accessible and feasible outputs, which will navigate young people - potential young entrepreneurs and young entrepreneurs - in the process of utilizing ICT technologies in their business. http://difens-project.eu/

**World-of-Physics Erasmus+ (SEIT Lab Coordinator):** The World-of- Physics Erasmus+ project aims to assist students in studying the physics domain with the utilization of innovative technologies like virtual reality. http://worldofphysics.etcenter.eu

**WINGS Erasmus+ (SEIT Lab Coordinator):**
"Internationalization serious Game for Start-ups and entrepreneurs" is an Erasmus+ project designed to identify core and innovative learning methods that best encourage success in international activities for start-ups and entrepreneurs. https://wings.erasmus.site/