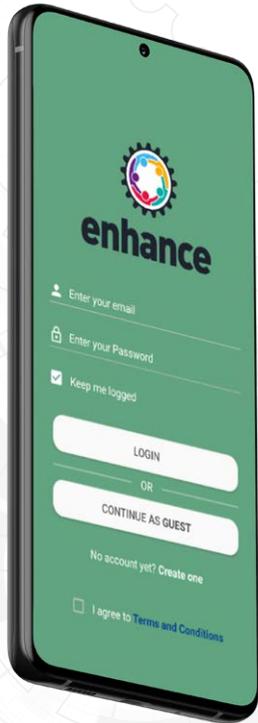




enhance

ENHANCE APP

Digital tool for evaluating the quality of graduate Engineering programmes



warwick.ac.uk/enhance
enhance.uniwa.gr

THE ENHANCE APP CAN BE USED BY:

- Institutions wanting to monitor the status of their programmes,
- Directors of programmes wanting to understand better how to frame a programme's effectiveness, aims and objectives, and
- Educators who wish to gain greater knowledge of the distinguishing features of an Engineering programme within the context of European higher education.



Using the ENHANCE App you can answer our engineering programme questionnaire and submit it for evaluation. The ENHANCE algorithm will produce a detailed assessment report with individualized comments and suggestions.

This app has been developed by the University of West Attica, Department of Informatics and Computer Engineering. It is based on research carried out within ENabling Humanitarian Attributes for Nurturing Community-based Engineering (ENHANCE), a 3 year collaborative project supported through the European Commission under the Erasmus+ Key Action 2, Cooperation for innovation and the exchange of good practices and Capacity Building in the field of Higher Education.

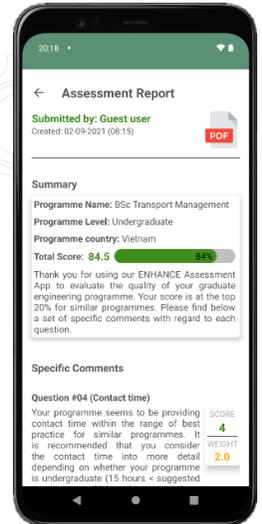
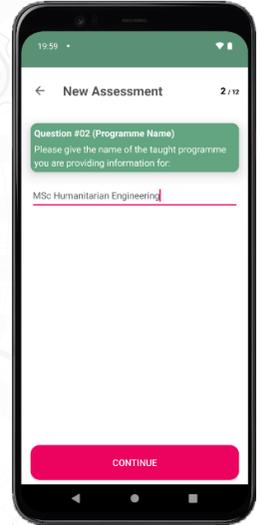
The project investigates complex humanitarian issues from a wide range of disciplinary perspectives in order to develop balanced, intelligent and synergistic solutions.

Users can create their own log in, or proceed as a guest to carry out our questionnaire.

Once the questionnaire is completed, the app will produce a report based on your answers and how they compare to the attributes, threads, enablers and assessment methods identified in our taxonomy as vital to better engineering curricula.

Once the assessment is completed, the app collects a set of anonymised data from each participant.

This allows us to continue our research into education practices in engineering HE programmes, and to apply improvements to the app ensuring a consistently positive user experience.



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 @EnhanceProject
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TAXONOMY

Project ENHANCE has developed a taxonomy of attributes for tackling humanitarian challenges based on the results of our research.

The app is based on the taxonomy, which informs and shapes the results it will return.

This taxonomy shows the underpinning attributes - attributes that are already well developed in Engineering Graduates through global education systems, as well as the ENHANCE attributes - those that are proposed to be developed more strongly in education programmes.

These attributes will contribute to equipping engineering students to tackle humanitarian challenges, and to respond to community needs as well as preparing them to enter today's engineering industry.

STAKEHOLDERS	ATTRIBUTES		THREADS	ENABLERS	ASSESSMENT METHODS						
Industry Quality Assurance Agencies Higher Education Institutions	ENHANCE Attributes	Knowledge	Realistic applications	ENHANCE Threads	ENHANCE Enablers	ENHANCE Assessment Methods	Journal, learning logs, blogs etc.				
			Creativity and innovation				Sustainability	Practical Activities (laboratories/ field work/ site visits etc.)	Portfolio		
			Problem-solving				Community responsibility	Problem-based learning	Creative output: artefact, digital and broadcast media etc.		
		Skills	Leadership		Underpinning Threads		Underpinning Enablers	Underpinning Assessment Methods	Oral Presentation		
			Project management and decision making						Diversity, equality and inclusion	Project-based learning	Journal article
			Behaviours						Professionalism	Community service	Essay/Report
	Underpinning Attributes	Knowledge	Theoretical knowledge	Social, economic and political factors	Underpinning Enablers	Underpinning Assessment Methods	Underpinning Assessment Methods	Written examination			
			Understanding of regulations, standards and codes of practice	Human needs and human rights				Lectures	Poster		
			Skills	International market				Seminars	Online tests		
		Behaviours	Analytical skills	Culture preservation				Self-directed study	Peer assessment		
			Practical skills								
			Teamworking and interpersonal relationships								