

EU partners



Otto von Guericke University (OvGu)

OvGu was founded in 1993 in Germany. It comprises of 9 faculties and almost 13,800 students. The Institute of Ergonomics, Manufacturing Systems and Automation (IAF) inside the university is interested in companies as well as corporate networks with the aim of innovative and efficient design of all corporate function for sustainable growth of a company



The University of Nottingham (UNOTT)

UNOTT was founded in England as University College Nottingham in 1881 and granted a Royal Charter in 1948. Nottingham has around 34,000 students and 9,000 staff. It had a total income of £520 million in 2012/13, of which £100 million was from research grants and contracts



University of Oviedo (UNIOVI)

UNIOVI was founded in 1579 in Spain, but its courses started in 1608. It has more than 25,000 students and 3000 academic/stuff distributed in 7 campuses in 3 cities. Academic programs offered in all branches of knowledge



School of Engineering, Jönköping University (JTH)

TUC was founded in 1775 in Germany. It has about 4080 students and 500 academic stuff. The university is offering a significant number of BSc, MSc and PhD programs in engineering and material sciences



Clausthal University of Technology (TUC)

JTH was founded in 1994 in Sweden but has a history that dates back to 1775. It has more than 2,500 students and 120 academic stuff. It aims in spreading new technology and knowledge that reinforces the international competitiveness of small and medium-sized enterprises. JTH offers education at bachelor, master's and doctoral levels, and 2-year courses at university college level.



Industry Partners



ABB

ABB has been present in Egypt since 1926, and started its investment in 1979. ABB-Egypt now has diverse activities in manufacturing, engineering and services. It operates in around 100 countries and employs approximately 145,000 people in a truly multinational organization. Its global headquarter is in Zurich, Switzerland.



LEONI

LEONI was based in Nuremburg, Germany in 1917. LEONI Egypt has four plants in the free zone, and two other regular plants with a total of 5,000 employees. Main products: cable harnesses, complete wiring systems for cars & commercial vehicles, and Ready-to-fit battery cables. LEONI Egypt deals with more than 185 suppliers in 25 countries all over the world supplying more than 5,000 components.



Procter and Gamble(P&G)

The organization is an FMCG business established in 1837. It is a multinational company producing diversified types of products. The development of Egypt's industrial sector and economy in the 1980s beckoned P&G invitingly to Egypt. It built its factory in 6 October Industrial City. It can be said that P&G is one of the worldwide leading companies in fast moving good with a long experience in solving supply chains and logistics management problems.

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A Project to introduce a New Masters of Engineering in Industrial Engineering and Management Sciences



Tempus

The TEMPUS program

TEMPUS (Trans European Mobility Scheme for University Studies) is a European Union (EU) educational program, funded by the European commission. It was established in 1990 to support the modernization of higher education and to create an area of co-operation in countries surrounding the EU. Tempus is based on a simple philosophy that has proven to work: people-to-people intercultural exchange, projects based on the transfer of knowledge and expertise and bottom-up grass-roots approach to higher education reform. The present project is one of the Tempus projects financed by the European commission. The benefit from this project is to enhance education performance in the field of interest.

Project Objective

Now-a-days companies are facing competition from around the globe. Organizations that are able to operate efficiently at low cost and with high productivity could significantly compete and improve its standing worldwide.

The Industrial Engineering (IE) deals with the optimization of complex processes or systems. It is concerned with their design, operation, evaluation, development, improvement, and implementation.

It is also concerned with Operations management, Operations research, Management science, Production and inventory control, Supply chain and logistic operations, Systems engineering, Manufacturing engineering, Ergonomics / human factors engineering, Safety engineering, Plant layout, Assembly line design, Lean manufacturing, and others.

The objective of this project is to develop, modernize and disseminate new curricula, teaching methods and materials, as well as boosting quality assurance and management of higher education institutions to enhance education performance in the field of IE.

The present IE post graduate degrees offer students an interactive learning environment, with hands-on learning oriented techniques, and practical industry experiences. Industrial engineers will have the chance to combine their logic and engineering skills with their business knowledge and communication skills to help their organizations to perform efficiently.

Project Output

By the end of the project, new curricula of Masters degree in industrial engineering and management in four different concentrations will be developed and each will be adopted by one of the participating Egyptian universities sharing the project. The concentrations are:

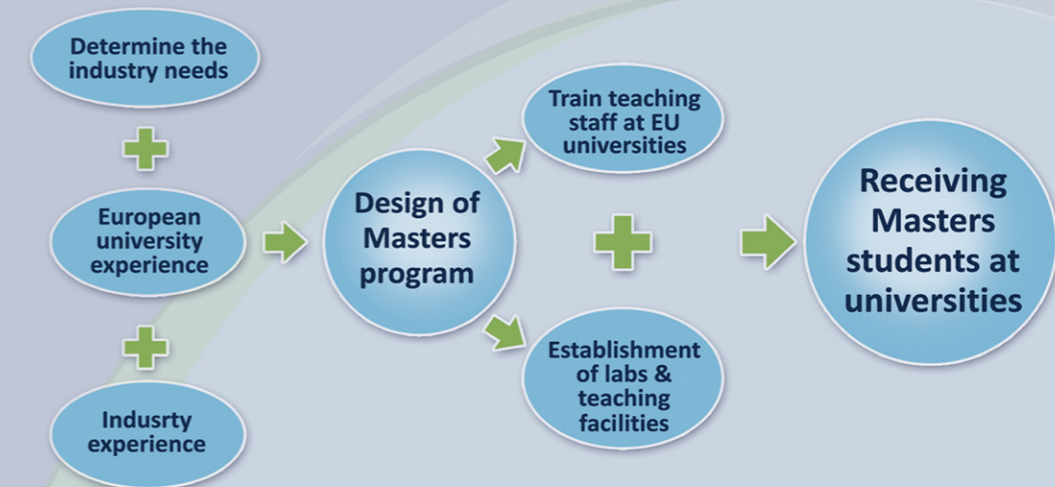
1. Industrial Systems & Operations Management; Ain Shams University (ASU)
2. Logistics & Supply Chain; the Arab Academy for Science & Transport (AAST)
3. Human Factors Engineering; Misr University for Science & Technology (MUST)
4. Quality Systems & Control; Fayoum University (FU)

The project extends to establishing and equipping different labs at participating Egyptian universities by the most up-to-date, and advanced equipment and optimization tools to achieve effectively the outcomes of the Masters degree.

The students will carry a project as from the 2nd year approaching a selected practical problem within their organizations.

The project Rationale

Ultimate project objectives will be achieved through several milestones: Cooperation channel between universities and industry will be established through a group of workshops targeting different industry sectors. This aims at raising the awareness of industrialist and introduces modern methods of IE for effective resource management. Established cooperation will assist in defining typical industry needs and common problems for different sectors of industry. This will be achieved through conducting survey questionnaires and field visits. Egyptian and EU universities together with industrial partners will jointly design programs' curricula on scientific basis fulfilling industry determined needs.



The project also comprises the design and implementation of a range of training courses (tailor-made that represent direct and immediate industrial needs. Workshop will be for industry in different fields to raise their awareness of new tools and techniques in industrial engineering and management sciences.

Who will benefit from the project?

The proposed master programs are targeting graduates who work in industry and who are responsible for the management of enterprise resources.

Project Partners

Egyptian Universities



Ain Shams University, Faculty of Engineering (ASU)

It was founded in 1946 in Cairo as an incorporated faculty of the ASU. The faculty offers BSc. Higher Diplomas, M.Sc. and Ph.D. in engineering in 13 different specializations. It has about 12000 undergraduate students with staff exceeding 883 faculty members.



Fayoum University, Faculty of Engineering (FU)

FU was founded in 2005 in Fayoum. The faculty offers the B.Sc, higher diploma, M.Sc, and Ph.D. degrees in Engineering. It has about 25,000 students, and 1800 staff members.



Arab Academy for Science, Technology and Maritime Transport (AAST)

AAST was founded in 1972 in Egypt. It is a regional university operated by the Arab League which is known for its programs in Marine Transportation, Business, and Engineering. It offers Masters and Diploma degrees in various specialties related to logistics, supply chain management and international trade.



Misr University for Science & Technology (MUST)

MUST was founded in 1996 in 6th of October. It is authorized to grant B.A, B.S, M.A, M.S, and Ph.D. degrees. Industrial engineering department teaches different subjects related to IE such as expert systems, ergonomics & human factors, etc.



Invited organizations

- ABB
- AfiaSavola Group
- Arab Organization for Industrialization
- ASF-Elsewedy
- Asfour Crystal International
- ASMA MARINE
- ASV
- Autocool
- B. Tech Trade & Distribution
- Badawy PECO
- BariQ For Techno. & Advanced Industries
- Bavaria
- BG Group for Apparel Making & Textile Printing
- Cairo Aviation
- Carina
- Citi Bank
- Citisalat
- Clover Brook textiles Egypt
- Comet-KSB
- Danone
- DOLPHIN
- drake & scull
- Duravit
- EBAM
- EDITA
- Ege Engineering Co for Food Industries Equipment
- El Dawlia Co for Conditioning, Cooling and Home Appliances
- El Fayoum Sugar Works Co.
- El Wahab Group
- El Zaharna Co. For Sheet Metal Forming & Exhaust System.
- Electrolux
- ElGobaly
- Elsewedy Transformers Egypt -Elsewedy Cables.
- Elswedy Electric
- EMISAL - The Egyptian Salts & Minerals Co.
- Energya Industries-ElSewedy Helal Co.
- EVACO
- Ex Giza Cable Elsewedy Co.
- Ezz Rolling Mills

- Ezz steel
- FALCON
- FEI
- FIMCO
- Fresh Co.
- General Motors
- Ghabbour-Auto.
- Gleeds
- Golden State Foods
- HalawaniBorthers
- Helwan Fertilization Co.
- High Power
- IKEA
- Industries Federation
- Industries FederationFEI
- International Co. For Ceramic Manufacturing - Cermaica Rondy.
- Ital Progetti Engineering Egypt
- Lafarage Cement Egypt
- LEONI
- Loreral
- MARS
- Ministry of industry
- Misr Compressors
- misr glass manufacturing(mgm)
- Mobica
- New Egypt Gold for Manufacturing (Jewelry)
- Nissan Egypt Co.
- Nouval Group
- Novartis
- Orascom Construction Industries
- P&CMACGM
- P&G
- PGESCo.
- Pharaohs Style for Ceramics Production Co.
- PHARMED Health Care.
- Plast Mac Co.
- Ricerca e Cooperazione - Research & Cooperation (RC) Organization.
- Saint Gobain for Glass Manufacturing
- SAS Egypt
- Savola Group - United Sugar of Egypt Co.
- Schneider Electric NEA.,,,
- Seimens S.A.E.

- shm industries
- SoloTex
- Solutions
- STA
- Suez Cement
- Suez Oil Co.
- SUZUKI
- Tanta motors
- Telecom Egypt Co.
- Tepco Group
- TEPCO Group.
- The Kuraymat Electricity Production Co.
- TOTAL
- TTC-Tech
- TTC-Technolgy
- Unionair
- United Printing, Publishing & Information Technology Co.
- United Wires-ElSewedy Electricirics
- Universal for Enigineering
- Universal Group Co.
- UWC Elsewedy
- WHS Plastic Egypt
- ZBM
- ZEINOX