

# Glossary

- ABET** [N-UNCOUNT-U3] The **American Board for Engineering and Technology (ABET)** is the governing body that grants accreditation to university engineering degree programs in the United States. **Amerykańska Rada Akredytacyjna Inżynierii i Technologii**
- abstract** [ADJ-U6] Something that is **abstract** can generally exist only as an idea. It is the opposite of “concrete.” **abstrakcyjny**
- accredited** [ADJ-U3] Something that is **accredited** has been officially recognized by a governing body as meeting certain basic requirements. **akredytowany**
- advertising** [N-UNCOUNT-U11] **Advertising** is the process of calling consumers’ attention to a company’s products or services. **reklama**
- agriculture** [N-UNCOUNT-U12] **Agriculture** is the science of farming. **rolnictwo**
- analysis** [N-COUNT-U5] **Analysis** is the act of closely examining something. **analiza**
- application** [N-COUNT-U5] **Application** is the act of putting an idea into practice. **zastosowanie**
- approach** [N-COUNT-U5] An **approach** is how you deal with something. **podejście**
- assembly line** [N-COUNT-U13] An **assembly line** is a line of workers or machines in a factory working on a product. A worker performs a job and then the product moves to the next worker. **linia montażowa**
- assess** [V-TRANS-U14] To **assess** something is to evaluate it. **ocenić, oszacować**
- attack** [V-TRANS-U5] To **attack** something is to attempt to solve it. **zaatakować, tu: próbować rozwiązać problem**
- axis** [N-COUNT-U7] An **axis** is the line on a graph that shows a point’s position. **oś**
- bachelor’s degree** [N-COUNT-U3] A **bachelor’s degree** is an undergraduate degree that is awarded upon completion of a course of study that typically lasts four years. **stopień licencjata**
- bar graph** [N-COUNT-U7] A **bar graph** is a chart that uses rectangles of different lengths to show amounts. **wykres słupkowy/kolumnowy**
- blueprint** [N-COUNT-U8] A **blueprint** is a plan for building something. **projekt, plan**
- body language** [N-UNCOUNT-U4] **Body language** refers to communication through body movements instead of speaking. **język ciała**
- brittle** [ADJ-U9] A **brittle** material will break easily under pressure. **kruchy**
- calculation** [N-COUNT-U10] A **calculation** is a function of mathematics wherein numbers are manipulated to achieve a result. Calculations can include addition, subtraction, multiplication, division, and other operations. **obliczenie**
- capacity** [N-UNCOUNT-U13] **Capacity** refers to the maximum amount of work a company or organization can perform. **zdolność produkcyjna, wydajność**
- catapult** [N-COUNT-U1] A **catapult** is a device designed to throw objects long distances without the use of explosives such as gunpowder. **katapulta**
- citation** [N-COUNT-U4] A **citation** is a reference to a piece of writing. **cytat**
- commission** [N-COUNT-U11] A **commission** is a payment made to a sales agent in return for securing a sale or other business relationship. **pro wizja**
- common sense** [N-UNCOUNT-U2] **Common sense** is practical knowledge. **zdrowy rozsądek**
- competence** [N-UNCOUNT-U2] **Competence** is a person’s ability to do something as it should be done. **kompetencja**
- competitor** [N-COUNT-U11] A **competitor** is a rival company that creates similar products and is competing for the same consumers. **konkurent**
- comprehension** [N-UNCOUNT-U5] **Comprehension** is the step of a problem solving method in which data and theory combine to solve a problem. **pojmowanie**
- computer science** [N-UNCOUNT-U14] **Computer science** is the study of how computers can be used. **informatyka**
- concrete** [ADJ-U6] Something that is **concrete** either currently exists in reality or could exist in reality. It is the opposite of “abstract.” **konkretny**
- conductor** [N-COUNT-U9] A **conductor** is a material that lets electricity or heat pass through it. **przewodnik**
- consult** [V-T-U11] To **consult** with someone is to give them professional or expert advice. **konsultować**

**convention** [N-COUNT-U10] A **convention** is a method or practice established through widespread or common use. **zwyczaj**

**convention** [N-COUNT-U6] A **convention** is something that is the subject of general agreement or consent. **konwencja**

**conveyor** [N-COUNT-U13] A **conveyor** is a piece of equipment that moves materials in a line from one area to another. **przenośnik**

**coordinate** [N-COUNT-U7] A **coordinate** is a pair of numbers that show position on a graph. **koordynaty**

**cost-effective** [ADJ-U13] Something that is **cost-effective** is worth the amount of money you spent on it. **kosztowo-efektywny / opłacalny**

**counterweight** [N-COUNT-U1] A **counterweight** is a heavy object that is used to balance some type of load. In trebuchets, it is the weight that causes the sling to rotate around the pivot and launch the projectile. **przeciwwaga**

**courage** [N-UNCOUNT-U2] When you have **courage** you are brave enough to do something. **odwaga**

**creative** [ADJ-U6] Something that is **creative** is the result of unique and different thought or expression. **twórczy**

**crop** [N-COUNT-U12] A **crop** is a group of plants that you grow in order to eat or sell. **plon**

**cross-section** [N-COUNT-U8] A **cross-section** is a drawing of something cut in half to reveal the inside of it. **przekrój**

**cue card** [N-COUNT-U4] A **cue card** is a card with information that helps a person remember what to say. **fiszka**

**curiosity** [N-UNCOUNT-U2] **Curiosity** is an interest in learning something. **ciekawość**

**deficiency** [N-COUNT-U15] A **deficiency** is a lack of a necessary nutrient or other desirable item. **niedobór**

**degree** [N-COUNT-U2] A **degree** is an academic qualification completed at a college. **stopień**

**demonstrate** [V-I-U11] To **demonstrate** something is to show another person how it works. **zademonstrować**

**dependability** [N-UNCOUNT-U2] **Dependability** is the ability for people to trust you to do things. **rzetelność**

**dependent variable** [N-COUNT-U7] A **dependent variable** is a number that depends on the value of another part of a mathematical equation. **zmienna zależna**

**depth** [N-COUNT-U8] **Depth** is how deep something is. **głębokość**

**design** [N-COUNT-U14] The **design** of software is its planning and structure. **projekt**

**development** [N-UNCOUNT-U14] **Development** is the act of actually making software. **programowanie**

**diagram** [N-COUNT-U8] A **diagram** is a drawn plan for something. **schemat**

**digit** [N-COUNT-U10] A **digit** is a number. **cyfra**

**dimension** [N-COUNT-U8] A **dimension** is the size of something. **wymiar**

**distribution uniformity** [N-UNCOUNT-U12] **Distribution uniformity** is a percentage of how equally water is being applied to an area. **równomierność rozkładu, tu: równomierność nawadniania**

**DNA** [N-UNCOUNT-U15] **DNA** is a main component of chromosomes. It transfers genetic material in all living organisms. **DNA**

**DNA probe** [N-COUNT-U15] A **DNA probe** is a fragment of DNA that is used to detect a manipulated gene. **sonda molekularna**

**doctorate** [N-COUNT-U3] A **doctorate** is a postgraduate degree that typically represents the highest possible level of study in a particular field. It is achieved through several years of study beyond an initial undergraduate degree. **doktorat**

**drainage** [N-UNCOUNT-U12] **Drainage** is the removal of excess water. **odwadnianie / drenaż**

**ductility** [N-UNCOUNT-U9] **Ductility** refers to a material's ability to not break under tensile force. **ciągliwość**

**EAB** [N-UNCOUNT-U3] The **Engineering Accreditation Board (EAB)** is the governing body that grants accreditation to university engineering degree programs in the United Kingdom. **Rada Akredytacyjna Inżynierii (w Wielkiej Brytanii)**

**entry-level** [ADJ-U3] Something that is **entry-level** is related to low-level job positions wherein new university graduates can gain experience and skills. **poziom podstawowy**

**ergonomics** [N-UNCOUNT-U13] **Ergonomics** is the science of designing equipment and workspaces that benefit and aid the worker. **ergonomia**

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- expertise** [N-UNCOUNT-U11] **Expertise** is a high level of skill or knowledge on a certain topic or subject. **biegłość**
- exploded view** [N-COUNT-U8] An **exploded view** is a drawing that shows how different parts of something fit together by drawing the parts separately. **rozwińnięcie, rysunek przedstawiający wzajemne ustawienie części względem siebie**
- expression** [N-UNCOUNT-U15] **Expression** is the action of a gene that is showing a certain distinguishing characteristic. **ekspresja**
- facility layout** [N-UNCOUNT-U13] **Facility layout** refers to the design and arrangement of a factory's workspace. **rozplanowanie zakładu pracy**
- feedback** [N-UNCOUNT-U6] **Feedback** is a reaction to an object or activity. It usually includes opinions on how the object or activity can be improved. **sprzężenie zwrotne**
- flood-irrigation** [N-UNCOUNT-U12] **Flood irrigation** covers an entire area with water. **nawadnianie powierzchniowe**
- gene** [N-COUNT-U15] A **gene** is a section of DNA which contains the information that determines physical characteristics. **gen**
- general-to-specific strategy** [N-COUNT-U4] A **general-to-specific strategy** is a way of organizing information so that you discuss general ideas first and then specific details. **strategia od ogółu do szczegółu**
- geometry** [N-COUNT-U8] **Geometry** is the mathematical shape and arrangement of an object. **geometria**
- GMO** [N-COUNT-U15] A **genetically modified organism (GMO)** is an organism whose genetic material has been changed. Both plants and animals can be GMOs. **organizm modyfikowany genetycznie**
- graph** [N-COUNT-U7] A **graph** is a diagram showing a relationship between variables. **graf**
- handout** [N-COUNT-U4] A **handout** is a document that you distribute to people during class or a presentation. **materiały (szkoleniowe)**
- hardness** [N-UNCOUNT-U9] **Hardness** is a property that makes an object difficult to dent or break. **twardość**
- hydrology** [N-UNCOUNT-U12] **Hydrology** is the study of water. **hydrologia**
- independent variable** [N-COUNT-U7] An **independent variable** is a number that does not depend on the value of another part of a mathematical equation. **zmienna niezależna**
- innovation** [N-UNCOUNT-U6] **Innovation** is the act of coming up with new and different ideas. **innowacja, nowatorski pomysł**
- insulator** [N-COUNT-U9] An **insulator** is a material that prevents heat or electricity from passing through it. **izolator**
- integer** [N-COUNT-U10] An **integer** is any positive or negative whole number, including zero. **liczba całkowita**
- interpersonal** [ADJ-U2] When something is **interpersonal** it is between people. **międzyludzki, interpersonalny**
- inventory** [N-COUNT-U13] An **inventory** is a list of the materials and goods in a factory. **inwentarz, lista inwentaryzacyjna**
- irrigation** [N-UNCOUNT-U12] **Irrigation** is the supplying of water to crops. **irygacja, nawadnianie**
- iteration** [N-COUNT-U5] An **iteration** is an instance of doing something repeatedly. **iteracja, powtarzanie**
- iterative procedure** [N-COUNT-U5] An **iterative procedure** is the act of doing something over and over with slight changes until you perfect it. **procedura iteracyjna**
- KISS** [V PHRASE-U4] **KISS** (Keep It Short and Simple) is a principle that reminds a person to present or do something in the simplest way. **krótko, prosto i do rzeczy**
- leading zero** [N-COUNT-U10] A **leading zero** is a zero that leads a number string. **zero prowadzące**
- length** [N-COUNT-U8] **Length** is how long something is. **długość**
- liaison** [N-COUNT-U11] A **liaison** is a person who creates and maintains contact between two groups in order to ensure collective action or cooperation. **łącznik**
- line graph** [N-COUNT-U7] A **line graph** is a chart showing points connected by straight lines. **wykres liniowy**
- localized irrigation** [N-UNCOUNT-U12] **Localized irrigation** applies small amounts of water directly to plants. **nawadnianie punktowe**
- logic** [N-UNCOUNT-U5] **Logic** is a reasonable way of thinking. **logika**

**logistics** [N-COUNT-U9] **Logistics** refer to the organizing of an operation or process so that it happens efficiently. **logistyka**

**long-term** [ADJ-U2] When something is **long-term** it happens for a long time. **długoterminowy**

**luster** [N-UNCOUNT-U9] **Luster** refers to the brightness or shine of a metal. **połysk**

**maintenance** [N-UNCOUNT-U14] **Maintenance** is fixing a software's flaws after it is released. **utrzymanie oprogramowania**

**malleable** [ADJ-U9] A **malleable** material bends easily when you press it. **elastyczny, ciągliwy, kowalny**

**manipulate** [V-I-U15] To **manipulate** something is to change or influence it. **manipulować**

**market research** [N-UNCOUNT-U11] **Market research** is the process of surveying the public to gain information about consumer tastes or preferences. **badanie rynku**

**marketing** [N-UNCOUNT-U11] **Marketing** includes all the activities that a company undertakes in order to advertise, sell, and deliver a product to consumers. **marketing**

**mass** [N-UNCOUNT-U1] **Mass** determines the degree to which a body creates or is affected by a gravitational field. In everyday usage, it is usually equated with the word "weight." In scientific usage, however, it can be used to refer to several different properties. **masa**

**master's degree** [N-COUNT-U3] A **master's degree** is a postgraduate degree that is awarded to people who have developed a level of mastery over a particular field. It is achieved through one or more additional years of study beyond an initial undergraduate degree. **stopień magistra**

**mechanical advantage** [N-UNCOUNT-U1] **Mechanical advantage** is the factor by which a machine or mechanism multiplies the force that is being applied to it. **przełożenie siłowe maszyny**

**MEng** [N-COUNT-U3] The **Master's of Engineering (MEng)** is a master's degree in the field of engineering. **magister inżynier**

**Middle Ages** [N-UNCOUNT-U1] The **Middle Ages** is a period of history that extends from the 5th century through the 15th century. **Średniowiecze**

**modify** [V-I-U11] To **modify** something is to alter or change the qualities of it in order to make it better. **modyfikować**

**molecular cloning** [N-UNCOUNT-U15] **Molecular cloning** is the process of copying genes. **klonowanie molekularne**

**MSc** [N-COUNT-U3] The **Master's of Science (MSc)** is a master's degree in a scientific field. **magister nauk ścisłych**

**MSc(Res)** [N-COUNT-U3] The **Master's of Science by Research (MSc(Res))** is a master's degree in a scientific field that is achieved primarily through research instead of classroom instruction. **stopień magistra nauk ścisłych uzyskany na drodze badań własnych**

**natural** [ADJ-U9] **Natural** materials come from nature. Glass, stone, and wood are some examples. **naturalny**

**norm** [N-COUNT-U6] A **norm** is a standard or commonly-held notion. **norma**

**notation** [N-COUNT-U10] In mathematics, a **notation** is a system of representing mathematical objects or ideas. Numbers and function symbols are examples of notations. **notacja**

**objective** [N-COUNT-U4] An **objective** is the main goal that a person aims to achieve. **cel, zadanie**

**operation** [N-UNCOUNT-U14] **Operation** is use of software. **obsługa, działanie**

**order of magnitude** [N-COUNT-U10] An **order of magnitude** is the class of scale of any amount. It usually contains a value that is of a certain ratio to the class preceding it. For example, 0.1 is one order of magnitude greater than 0.01, and 1 is one order of magnitude greater than 0.1. **rzęd wielkości**

**organization** [N-UNCOUNT-U2] **Organization** is the ability to plan and put things together in an orderly fashion. **organizacja**

**originality** [N-UNCOUNT-U6] **Originality** is the quality of being independent, new, and unique. **oryginalność**

**out of the box** [ADJ-PHRASE-U6] Something that is **out of the box** is outside the realm of conventional thought or practice. Could also be expressed as "outside the box." **nieszablonowy**

**payload** [N-COUNT-U1] A **payload** is an object or quantity to be sent or thrown. **masa użyteczna**

**perimeter** [N-COUNT-U8] **Perimeter** is the length of something's outer edges. **obwód**

**PhD** [N-COUNT-U3] The **Doctor of Philosophy (PhD)** is a doctorate that can be achieved in a variety of fields. **Dr**



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- pivot** [N-COUNT-U1] A **pivot** is the object around which other objects rotate or turn. **oś, sworzeń**
- pivot-irrigation** [N-UNCOUNT-U12] **Pivot-irrigation** involves a machine that rotates, applying water to a circular area around the machine. **nawadnianie rotacyjne**
- plastics** [N-COUNT-U9] **Plastics** are synthetic materials that one can shape into many different forms. **plastiki**
- plausible** [ADJ-U6] Something that is **plausible** seems reasonable or achievable. **wiarygodny, możliwy do przyjęcia**
- postgraduate degree** [N-COUNT-U3] A **postgraduate degree** is any degree that is awarded upon completion of additional years of study beyond the initial undergraduate degree. Master's degrees and doctorates are examples of postgraduate degrees. **stopień naukowy powyżej licencjatu**
- presentation program** [N-COUNT-U4] A **presentation program** is a computer program that lets you display information in a slide show. **program do prezentacji**
- problem identification** [N-COUNT-U5] **Problem identification** is the act of stating what issues one must address in a situation. **sformułowanie problemu**
- problem modeling** [N-UNCOUNT-U14] **Problem modeling** is the assessment of software for issues. **modelowanie problemu**
- problem solving** [N-UNCOUNT-U2] **Problem solving** is the act of resolving issues and finding solutions. **rozwiązywanie problemu**
- projectile** [N-COUNT-U1] A **projectile** is an object that is being launched or thrown through the air. **pocisk**
- projector** [N-COUNT-U4] A **projector** is a machine that lets you show images on a screen or surface. **projektor**
- quality** [N-COUNT-U2] A **quality** is a feature that someone or something has. **tu: cecha**
- quality** [N-UNCOUNT-U14] **Quality** is how well software is designed. **jakość**
- quality control** [N-UNCOUNT-U13] **Quality control** refers to the activities one performs to ensure a product's quality and safety. **kontrola jakości**
- quantitative thinking** [N-UNCOUNT-U2] **Quantitative thinking** is the ability to think in terms of numbers. **myślenie ilościowe**
- quantity** [N-COUNT-U10] A **quantity** is an amount of something. It can be either precise or indefinite. **ilość**
- redefine** [V-TRANS-U5] To **redefine** something is to state it again in a different manner. **przedefiniować**
- rounding error** [N-COUNT-U10] A **rounding error** is a miscalculation that results from improperly rounding a number to a convenient number of decimals. **błąd zaokrąglenia**
- salinity** [N-UNCOUNT-U12] **Salinity** is the amount of salt in something. **zasolenie**
- scale** [N-COUNT-U8] **Scale** is the relationship between the size of something drawn and its real size. **skala**
- scatter plot** [N-COUNT-U7] A **scatter plot** is a chart with many points on it to show relationships between two variables. **diagram rozproszenia**
- schematic** [N-COUNT-U8] A **schematic** shows the form and features of something. **schemat**
- scientific notation** [N-UNCOUNT-U10] **Scientific notation** is a way of easily expressing very large or very small quantities. It incorporates the use of superscript digits.  $3 \times 10^6$ , for example, is 3,000,000 written in scientific notation. **notacja wykładnicza**
- select** [V-I-U15] To **select** something is to choose it. **wybrać, wyselekcjonować**
- siege engine** [N-COUNT-U1] A **siege engine** is a device that was used in the Middle Ages to destroy castle walls, city walls, or other fortifications during a siege. **maszyna oblężnicza**
- significant figure** [N-COUNT-U10] A **significant figure** is a digit that helps identify a number's precision. All numbers are significant except for leading and trailing zeros when they serve as placeholders, or digits that are introduced as a result of calculations that are carried out to more decimal places than the original numbers. **cyfra znacząca**
- signpost** [N-COUNT-U4] A **signpost** is a phrase or word that helps signal the different parts of a presentation to the audience. **drogowskaz**
- sling** [N-COUNT-U1] A **sling** is a device that holds and, when subjected to the proper forces, launches or throws a projectile. **proca**
- software engineering** [N-UNCOUNT-U14] **Software engineering** is a profession that develops and improves computer programs. **inżynieria oprogramowania**

**solution** [N-COUNT-U5] A **solution** is an answer to a problem. **rozwiązanie**

**streamline** [V-T-U13] To **streamline** an operation is to improve it and make it more efficient. **optymalizować**

**summarize** [V-T-U4] To **summarize** something is to briefly repeat its main points. **podsumować**

**supply chain** [N-COUNT-U13] A **supply chain** consists of all the people and resources that help get a product from a supplier to a customer. **łańcuch dostaw**

**synthesis** [N-COUNT-U5] A **synthesis** is a mixture of ideas. **synteza**

**synthetic** [ADJ-U9] **Synthetic** materials are artificial, man-made substances. **syntetyczny**

**technical** [ADJ-U11] If something is **technical**, it relates to a specific skill, art, or science. **techniczny / fachowy**

**technological** [ADJ-U11] If something is **technological**, it is related to science and technology. **technologiczny**

**tensile** [ADJ-U9] A **tensile** material is able to stretch easily. **rozciągliwy**

**testing** [N-UNCOUNT-U14] **Testing** is the act of making sure software works. **testowanie**

**tillage** [N-UNCOUNT-U12] **Tillage** is the preparing of soil for crops. **uprawa ziemi**

**torque** [N-UNCOUNT-U1] **Torque** is a measure of the turning force being placed upon an object. **moment obrotowy**

**trailing zero** [N-COUNT-U10] A **trailing zero** is a zero that occurs in the decimal representation of a number. No other digits follow a trailing zero (or a series of trailing zeros), and they are always considered significant. **zero końcowe**

**trait** [N-COUNT-U15] A **trait** is a distinguishing characteristic. **cecha (charakterystyczna)**

**transformation** [N-UNCOUNT-U15] **Transformation** is the process of changing in appearance, form, nature, or character. **przeobrażenie, przekształcenie**

**transparent** [ADJ-U9] A **transparent** material is clear and easy to see through. **przezroczysty**

**trebuchet** [N-COUNT-U1] A **trebuchet** is a weapon that was popular during the Middle Ages. It was often used to launch rocks and other items into to walls of the fort or castle that was being attacked. **katapuła**

**undergraduate degree** [N-COUNT-U3] An **undergraduate degree** is a degree that is awarded upon completion of a general course of study that typically last four years. **stopień naukowy do licencjatu włącznie**

**validation** [N-UNCOUNT-U14] **Validation** is making sure that software satisfies the user's needs. **walidacja, sprawdzenie**

**vector** [N-COUNT-U15] A **vector** is a DNA molecule that is used to transfer genetic material from one cell to another. **wektor**

**verification** [N-UNCOUNT-U14] **Verification** is making sure that software meets its design specifications. **weryfikacja**

**verification** [N-UNCOUNT-U6] **Verification** is the process of establishing the accuracy or truth of something. **weryfikacja**

**vision** [N-UNCOUNT-U6] A **vision** is an imaginative conception of something which has not happened yet. **wizja**

**visual aid** [N-COUNT-U4] A **visual aid** is an image that people look at during a presentation. **pomoc wizualna**

**water rights** [N-COUNT-U12] A **water right** is the right of a person to use water from a source like a river or stream. **prawo wodne**

**width** [N-COUNT-U8] **Width** is how wide something is. **szerokość**

**X axis** [N-COUNT-U7] The **x axis** is the horizontal axis on a graph. **oś odciętych**

**Y axis** [N-COUNT-U7] The **y axis** is the vertical axis on a graph. **oś rzędnych**