

LECTURE NOTES QUANTITY SURVEYING CIVIL ENGINEERING

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What is quantity surveying in civil engineering? Quantity surveying refers to the estimation of materials as well as the final cost estimation for any project. Cost estimating is one of the most important steps in project management. Cost estimation establishes the base line of the predicted project cost at different stages of development of the project.

What is quantity survey short notes? Quantity survey is a schedule of quantities of all the items of work in a building. Complete and fully dimensioned drawings (i.e. plans, elevations, sections and other details) of the building or work in question are required.

How do you calculate quantity survey for construction? - The quantities mainly can be calculated as: $\text{Quantity} = \text{Length} \times \text{Width} \times (\text{Height or Thickness})$, $\text{Quantity} = \text{Area of cross-section} \times \text{Length}$, $\text{Quantity} = \text{Length} \times \text{Width}$, $\text{Quantity} = \text{Length}$. $\text{Quantity} = \text{Number of Units}$.

What is costing and estimation in civil engineering? In civil engineering, costing is the process of determining the actual expenses that were incurred during the project's execution, whereas estimate is the process of anticipating and analysing the costs and resources that will be needed for certain activities.

What are 5 duties of a quantity surveyor?

What are the two types of quantity surveyors? Two Paths: Contractor's QS or Client's QS You'll be a hands-on site presence managing subcontractors and dealing with multiple specialists. A private quantity surveyor works directly for the client.

You'll focus more on budget estimations, collaborating with architects and engineers to prepare tender documents.

What is another name for a quantity surveyor? Other names for people employed with quantity surveying qualifications include estimator, cost engineer, cost manager, cost analyst, project coordinator, project cost controller and cost planner.

What does a quantity surveyor need to know? What does a Quantity Surveyor do? Advising on the potential of a site and working out what a client can afford to build, often termed 'feasibility'. Presenting detailed information on the cost of particular elements of work on a periodic basis to enable payment for those works carried out to date.

What is the difference between survey and quantity survey? In short, building surveyors focus more on the technical side of both the property and construction sectors. Meanwhile, quantity surveyors deal with the financial side of the construction industry, making sure every project is cost-effective.

What is the basic knowledge of quantity surveying? Quantity surveying is the process of calculating the quantities of project scope works to meet the project objectives. A professional who practices quantity surveying is called a quantity surveyor (QS). A QS is well versed with calculations of quantities and also knows contracts and costs.

What are the fundamentals of quantity surveying? This includes the fundamentals of cost management, procurement routes, forms of contract, cost planning, change control, and project financial control and reporting.

What skills do quantity surveyors need? Skills and knowledge analytical thinking skills. knowledge of engineering science and technology. persistence and determination. knowledge of building and construction.

What are the three basic types of cost estimating? The three types of cost estimates are design, bid, and control estimates. Design estimates are prepared in the project preliminaries which gives the order of magnitude of the project cost. Bid estimates are used in the tendering phase of the project which details project overheads and other indirect costs.

Who prepares the cost of estimation? A cost estimator is the professional who prepares cost estimates. There are different types of cost estimators, whose title may be preceded by a modifier, such as building estimator, or electrical estimator, or chief estimator.

How to calculate an estimate in civil engineering? The cost component of an estimation is determined by multiplying the material quantity by the corresponding unit cost to determine the overall cost for the material. For example, a calculated volume of soil in cubic yards would be multiplied by a unit cost defined as cost per cubic yard.

What does a Quantity Surveyor do? What does a Quantity Surveyor do? Advising on the potential of a site and working out what a client can afford to build, often termed 'feasibility'. Presenting detailed information on the cost of particular elements of work on a periodic basis to enable payment for those works carried out to date.

What is the difference between a Quantity Surveyor and a civil engineer? In summary, quantity surveyors primarily deal with the financial aspects of construction projects, while civil engineers focus on their design and construction. Although they work closely together, their roles are distinct and complementary in ensuring the successful delivery of construction projects.

How easy is quantity surveying? It's not intellectually demanding in the sense that say engineering can be, but it's not a job for stupid people, and it carries a lot of pressure and responsibility. You need to be numerate and comfortable with figures. There is no complex mathematics involved, but there is a lot of basic mathematics involved.

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What are notes in law review? Notes or Comments are works of legal scholarship written by law students, generally during their 2L year and the first year they are a

member of a law journal.

Can you use notes on law school exams? Law school final exams also vary in terms of whether you can use your notes or other class materials when completing the final exam. Some in-class exams will be open-book exams which might allow you to use a text book, class notes, or your outline when completing the exam.

How to study for a law exam?

What is the hardest law exam? Yes, the California bar exam is widely considered to be the most difficult of all state bar exams in the US. The California bar exam has a pass rate of 34%.

How long should a law review note be? The typical law review Note is between thirty and fifty-five pages.

How to find a law review note topic? Selecting a Topic Notes or Comments often focus on recent cases or developments in the law. You may encounter possible topics during your summer jobs, externships, or by talking to your professors.

Is it better to write or type notes in law school? Many law students type up notes, but studies have shown that sticking to old-school pen and paper can seriously improve your retention of the material discussed. In fact, it was found that laptop users performed worse academically and felt less fulfilled (and more "disconnected") from their education.

Are you allowed to take notes during LSAT? A digital notetaking section is available within the LSAT Writing module, so you can type notes as you write your essay.

Do you memorize laws in law school? While law school exams primarily require applied knowledge, not rote memorization, you still have to know the material, which requires some (a lot of) memorization.

Is law school exam hard? Law schools' exams are known to be notoriously difficult. They are designed to test students' knowledge of the law and their ability to apply the law to real-world situations. The exams themselves can be challenging.

How many hours should you study for a law school final? All in all, however, law students typically spend around 30 – 40 hours per week studying. That may sound like a lot, but a good rule of thumb is that you should be studying at least two hours for every one hour of class time per week.

How can I get faster at law school exams?

What is the hardest year in law school? Law school is an academic challenge; most students agree the first year (“1L” year) is the most difficult. In part, this is because law school is taught using methods entirely different than the lecture method used in most college classrooms.

What state has the easiest law bar exam? Overall, Utah is the easiest bar exam to pass. This is true whether you are a first-time taker or repeat taker! In July 2023, Utah had a 94% pass rate for first time takers and a 73% pass rate for repeat takers. It also has the lowest UBE cut score of 260.

What is the hardest state to become a lawyer? California is universally regarded as the toughest state for taking the bar exam. This notion is not dissuaded by the state's low bar-pass rate. In addition to the performance test, five essay questions, and the Multistate Bar Exam, the California exam takes two days.

What is a note in legal writing? A Note or Comment is a work of legal scholarship written by a law student. A Note or Comment may be selected for publication by one of the law school's law journals. Articles, in contrast, are typically written by non-students, such as law professors or experts in certain subject areas.

What is a case note law review? A successful case note will argue a clear thesis about a single, discrete issue in the case. While the decision discusses many different issues, you are not expected nor encouraged to address all of them in your case note. Your page limit is 18 pages.

What is the difference between a note and a comment? Comments are a text field which Teachers can use to provide feedback to Students. Notes are checkboxes for Exempt, Late, Missing, and Incomplete.

What is a note in court? A case note is a summary and analysis of the facts and holding of a particular case as well as an argument on the significance/implications of this case.

What is the new empirical industrial organization approach? The NEIO describes techniques (more than one) for estimating the degree of competitiveness in an industry. On the data side, these new studies use bare bones prices and quantities, that is, the techniques do not use cost or profit data and rely.

What are the four central questions of industrial organization? Specifically, the central questions addressed by industrial organization are (1) Is there market power? (2) How do firms acquire and maintain market power? (3) What are the implications of market power? (4) Is there a role for public policy as regards market power?

What is the empirical approach also known as? Empirical method is also called as Experimental method. An empirical method involves the use of objective, quantitative observation in a systematically controlled, replicable situation, in order to test or refine a theory.

What is the empirical approach? An empirical approach gathers observable data and sets out a repeatable process to produce verifiable results. Empirical analysis often requires statistical analysis to support a claim. The word empirical comes from the ancient Greek word *empeiria*, meaning experience.

What is the industrial organization theory? The study of industrial organization builds on the theory of the firm, a set of economic theories that describe, explain and attempt to predict the nature of a firm in terms of its existence, behavior, structure and its relationship to the market.

What are the three big areas of concern in the 4IR era? While the fact that we are still at the beginning of this revolution means that it is impossible to know the precise impact on different groups, there are three big areas of concern: inequality, security and identity.

What are the three important elements in the industrial organization paradigm? The SCP model is an essential aspect of industrial organization. It is a practical framework that can be used to analyze significant market elements. The paradigm

consists of three elements or market variables, namely- structure, conduct and performance.

What is an example of an empirical approach? A classic example of empirical research with correlational research is when studying if high education helps in obtaining better-paying jobs. If outcomes indicate that higher education does allow individuals to have high-salaried jobs, then it follows that people with less education tend to have lower-paying jobs.

What is empirical theory? Empirical means based on observations or experience. Theoretical means based on theories and hypotheses. The two terms are often used in scientific practice to refer to data, methods, or probabilities.

What is the difference between theoretical approach and empirical approach? Empirical or Theoretical? Empirical: Based on data gathered by original experiments or observations. Theoretical: Analyzes and makes connections between empirical studies to define or advance a theoretical position.

What is the main objective of empirical approach? Empirical Theory In this approach, scholars seek to generate a hypothesis, which is a proposed explanation for some phenomena that can be tested empirically. After formulating a hypothesis, a study will be designed to test the hypothesis.

What is empirical method in simple terms? Empirical research is research that is based on observation and measurement of phenomena, as directly experienced by the researcher. The data thus gathered may be compared against a theory or hypothesis, but the results are still based on real life experience.

Why is it important to use the empirical approach? Empirical research study helps the researcher to develop relevant analytical and observation skills that can be useful in dynamic research contexts. This type of research approach allows the researcher to control multiple research variables in order to arrive at the most relevant research outcomes.

What is the industrial organization approach? I/O approach refers to the Industry Organization approach that emphasizes every firm to achieve a competitive advantage in the industry. This approach focuses on the external environment of a

business and takes into consideration all the factors affecting its operations and decisions.

What is the empirical model approach? The empirical model is a statistical model based on a large amount of experimental data. It does not need to consider the internal physical and chemical mechanisms of the battery, but only needs to process and analyze the experimental data to build a mathematical model related to the battery performance and behavior.

What is the new trade theory approach? The new trade theory (NTT) explains the patterns in global trade, whereby countries that produce similar products or services end up trading partners. The NTT elaborates that these patterns have contributed to monopolistic competition whereby several companies dominate the global market.

What is the empirical first approach? Empirics-first refers to research that (i) is grounded in (originates from) a real-world marketing phenomenon, problem, or observation, (ii) involves obtaining and analyzing data, and (iii) produces valid marketing-relevant insights without necessarily developing or testing theory.

What is the role of a pipe line engineer? They design and oversee the construction of pipelines for transporting oil and gas. If something goes wrong with a pipeline, it can be catastrophic, so these engineers need to be skilled and knowledgeable in their field.

What is the job description for an oil and gas engineer? Duties and responsibilities of a Gas and Oil Engineer Laying and repairing pipes and mains systems. Connecting homes and businesses to the gas network. Installing and maintaining gas pressure control equipment. Responding to emergency gas leaks.

What is the difference between pipeline and piping engineer? Pipelines have many purpose such as transporting water, slurries, oil, gas, etc. The pipeline can run underground, aboveground, and underwater such as a subsea pipeline. Whereas Piping is mostly above ground with very few underground services.

What is the role of a piping execution engineer? Piping Engineer Responsibilities Include Ensuring adherence to project specifications and safety regulations. Selecting appropriate materials and components for piping systems. Conducting

stress analysis and performance evaluations of piping designs.

What does a piping engineer do in oil and gas? Their primary role is to ensure the safe and efficient transport of fluids, gases, and other materials within a facility or infrastructure. Responsible for piping Engineering including, but not limited to; piping, valves, support system.

What is the highest salary of piping engineer? Piping Engineer salary in India ranges between ₹ 2.4 Lakhs to ₹ 15.6 Lakhs with an average annual salary of ₹ 8.2 Lakhs. Salary estimates are based on 5.3k latest salaries received from Piping Engineers. 2 - 11 years exp.

What do engineers do in the oil and gas industry? As such, oil and gas engineers evaluate energy reservoirs to help predict their profitability and examine potential drilling sites to plan efficient and safe drilling methods needed to recover energy assets. Engineers increasingly rely on advanced digital technologies to work more effectively.

What is oil and gas engineering called? Updated June 28, 2024. Petroleum engineering focuses on the production and extraction of natural resources, such as natural gas and oil, to convert to energy. There are different specializations within this field that focus on specific phases of oil production.

What is the job description of oil and gas process engineer? The primary purpose of the role is to provide process engineering support to the Oil and Gas Function. The individual will be responsible for engineering deliverables at design, construction, and commissioning stages of the project. Prepare sizing calculations for vessels, pumps, lines, etc.

Is piping engineer a good career? There is a great scope for piping engineers and piping design is an excellent career option for mechanical engineers and chemical engineers. The career opportunities in piping engineering are as follows: Piping Design Engineer. Piping Material Engineer.

What piping engineers do? Piping Engineer is one of the famous engineering groups in the Oil & Gas, Petrochemical, Refinery, Chemical, Power-Plant, Steel, Water, and Pharmaceutical sectors. They are responsible for designing the piping

systems that carry water, steam, gas, oil, two-phase mixture, waste, or other fluid.

What is piping in oil and gas industry? Petroleum pipelines transport crude oil or natural gas liquids, and there are three main types of petroleum pipelines involved in this process: gathering systems, crude oil pipeline systems, and refined products pipelines systems.

What is a pipeline engineer job description? Prepare the design basis/CTRs for the pipeline design and interface with the relative process and structures and installation. Prepare the technical specifications and data sheets for material purchasing. Check the results of surveys carried out by sub-contractors. Optimize the laying route.

What is the basic knowledge of a pipe engineer? Basic knowledge of fluid flow both pressure pipe flow and gravity flow would be required. This also includes basic study of Hydraulics. Some physics, strength of materials and advanced studies in rapidly varied flow would be helpful.

What are the different types of pipe engineers? There are many different types of pipes used in engineering, but one of the most common is cast iron. The main use of cast iron pipes and fitting is to dispose of soil and rainwater. Cast iron pipes are constructed using a sand cast process in a foundry.

What is the difference between pipeline engineer and piping engineer? Piping engineers may have a more specialized focus, working on the design of pipelines within a single facility, while pipeline engineers have a broader focus, working on the design of pipelines that span long distances. Piping systems are usually designed based on ASME B31. 1/B31.

What is the future of piping engineer? Piping Engineers find opportunities in various industries and sectors: Oil and Gas: Employed by oil and gas companies for pipeline design, transport systems, and refinery facilities. Chemical and Petrochemical: Involved in designing and maintaining piping systems for chemical processing plants.

What is the role of pipelines in the oil and gas industry? Pipelines transport energy safely Networks of large transmission pipelines are energy highways.

Pipelines take both natural gas and oil over vast distances -- from often-remote locations to the populated places where we need the products.

How much does a piping engineer make in the US? The average piping engineer salary in the United States is \$107,432. Piping engineer salaries typically range between \$75,000 and \$153,000 yearly.

What engineer gets paid the most?

What is the job outlook for a piping engineer? Are piping engineer jobs in demand? Yes, piping engineer jobs are in demand. Piping engineer demand is projected to grow 2% from 2018 to 2028.

What does a line engineer do? Essentially a transmission line engineer's role is to design transmission lines and supervise the construction of these projects. Occasionally, they'll be expected to take on the role of a project engineer or project manager, meaning they need to have oversight of all phases of a project.

What is the job description of a pipe line? Pipeliners, also known as Pipeline Welders, join and repair tubular products and metallic pipe components and assemblies as part of the construction of buildings, vessels, structures, and stand-alone pipelines.

Is piping engineer a good career? There is a great scope for piping engineers and piping design is an excellent career option for mechanical engineers and chemical engineers. The career opportunities in piping engineering are as follows: Piping Design Engineer. Piping Material Engineer.

Why is a piping engineer important? The science behind piping engineering is extremely important for the reliability of the plant and the safety of the process, personnel, and public. In a typical Chemical or Process Plant, the material cost of piping is around 35% of the initial fixed cost next to the material cost of major equipment (~50%).

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