

# IRRIGATION AND DRAINAGE ENGINEERING LECTURE NOTES

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**What is irrigation and drainage engineering?** Irrigation & Drainage Systems Engineering (IDSE) covers all phases of irrigation, drainage engineering, hydrology and related water management subjects such as watershed management, weather modification, water quality, groundwater and surface water.

**What is irrigation notes?** Irrigation is the process of applying water to the crops artificially to fulfil their water requirements. Nutrients may also be provided to the crops through irrigation. The various sources of water for irrigation are wells, ponds, lakes, canals, tube-wells and even dams.

**What is the oldest artificial irrigation found in the Middle East?** The earliest known systems of irrigation began in 6000 BC in Egypt and Mesopotamia. In Egypt, the Nile flooded for a few months each year, and the waters were diverted to the fields to allow farmers to grow crops where otherwise they would be unable to do so.

**What are the different types of irrigation?**

**What is difference between drainage and irrigation?** Simply put, drainage is water traveling out, and irrigation is watering traveling in. Irrigation is a word often used to describe methods of bringing water to plants in ways other than rain, although rain irrigates plants as surely as water from a canal, a pipe, or a watering can.

**What does a drainage engineer do?** A drainage engineer is responsible for designing systems that move water or sewage from one place to another, as safely and efficiently as possible. This can involve visiting sites to gain an understanding of

project requirements, as well as designing and overseeing the installation of these systems.

**What are the four basic methods of irrigation?** Four methods of irrigation include surface irrigation (basin, bordered, uncontrolled flooding, and furrow irrigation), sprinkler irrigation, drip/trickle irrigation, and subsurface irrigation. There are many benefits of irrigation, but irrigation can also cause an alteration in the surrounding landscape.

**What are the basics of irrigation?** Irrigation: A really important basic guideline for irrigation is to apply about  $\frac{1}{2}$  inch of water each time you irrigate (you can measure this by putting a can in the yard and actually measuring the water after an irrigation). The frequency of this application of  $\frac{1}{2}$  inch depends on the time of year.

**What are the four modern methods of irrigation?** The modern methods of irrigation include – surface irrigation, drip irrigation, sprinkler irrigation, subsurface irrigation.

**What is the most advanced irrigation system in the world?** Subsurface drip irrigation (SDI) is the most advanced method of irrigation.

**What country invented irrigation?** The earliest archeological evidence of irrigation in farming dates to about 6000 B.C. in the Middle East's Jordan Valley (1). It is widely believed that irrigation was being practiced in Egypt at about the same time (6), and the earliest pictorial representation of irrigation is from Egypt around 3100 B.C. (1).

**Which is the oldest method of irrigation?** Water wheels are the oldest way of irrigation. This method of irrigation uses a lot of earthen pots attached to a rope that goes around a wheel. The rope is tied to bulls which then help to draw underground water.

**What is the most effective irrigation system?** Drip System Drip irrigation is the most water-efficient way to irrigate many different plantings. It is an ideal way to water in clay soils because the water is applied slowly, allowing the soil to absorb the water and avoid runoff. Drip devices use a fraction of the water that overhead spray devices use.

**What is the most common method of irrigation?** The commonly used irrigation methods are surface, sprinkler, and drip irrigation. Each method has its own merits and demerits, depending on the soil, topography, type of crops, climate, water availability and quality, and investment, which are the guiding factors for selecting an adequate irrigation method.

**What are the 3 different designs of irrigation system?** There are three commonly used methods: surface irrigation, sprinkler irrigation and drip irrigation.

**What is drain in irrigation engineering?** Drainage means the removal of excess water from a given place. Two types of drainage can be identified: i) Land Drainage: This is large scale drainage where the objective is to drain surplus water from a large area by such means as excavating large open drains, erecting dykes and levees and pumping.

**What are four drainage systems?** Depending on the slope of the land, underlying rock structure as well as the climatic conditions of the area, the streams within a drainage basin form certain patterns. These are dendritic, trellis, rectangular, and radial patterns.

**What is a small canal called?** Field channels also known as watercourses are small channels excavated by cultivators in the irrigation field. These channels are fed by the distributary canals and branch canals through canal outlets.

**What type of engineer deals with drainage issues?** A civil engineering team has to consider every aspect of the building process. In addition to the integrity of the structure itself, engineers also need to think about a piece of land's ability to manage water flow in the event of a major storm or flooding.

**Why is drainage engineering important?** Drainage engineering is a dynamic and rewarding career where you will get the opportunity to: Manage flood risk, preventing damage to buildings and the transport network. Prevent water pollution. Encourage water reservation and water harvesting.

**Is drainage part of civil engineering?** Tekton's civil engineers oversee things like grading and stormwater management, drainage systems and storm sewers. They are responsible for making sure the proper checks and balances are in place to keep

these systems working.

**What is an irrigation engineer?** Irrigation engineers work on large or complicated landscape irrigation projects or in states that require construction plans be approved by an engineer or landscape architect. Engineers analyze existing site surveys, conduct research and identify potential structural and environmental problems.

**What is the engineering definition of irrigation?** Irrigation is defined as the process of artificial supply of water to soil for raising crops. It is a science of planning and designing an efficient, low-cost, economic irrigation system tailored to fit natural conditions.

**Is irrigation engineering civil engineering?** Civil engineers are responsible for the design, planning and testing of buildings, towers, transport infrastructure, gas and water systems, sewerage schemes, irrigation systems, new mines and many more facilities.

**What engineer deals with drainage?** Drainage engineers research climate and environmental factors for the project site, such as flood risks and land erosion, then they design a drainage facility that meets the budget, usage, and aesthetic goals of the municipality.

**Is Nothing to Envy a North Korean song?** The song was composed in 1961 by North Korean composer Kim Hyuk. The song was commonly sung during the 1980s but were not sung for a long time due to the North Korean famine in the 1990s until it was revived at the World Children's Day event in 2016.

**What is the summary of nothing to envy ordinary lives in North Korea?** Brief summary Nothing to Envy by Barbara Demick is a non-fiction book that follows the lives of six North Koreans as they struggle to survive poverty, famine, and dictatorship. It provides a heart-wrenching insight into life under the oppressive regime of North Korea.

**What is the author's purpose for writing "Nothing to Envy Ordinary Lives" in North Korea?** Based on testimonies of six defectors living in South Korea and China, Demick provides insight into the lives of ordinary North Koreans. She highlights fond memories of one of the main characters, "Mi-ran," and her courtship

during power-outages and lack of electricity that were a common occurrence. "Dr.

**What is Nothing to Envy based on?** Overview: Nothing To Envy uses the experiences of six North Korean defectors to address the extremes and difficulties of everyday life under the totalitarian regimes of Kim Il-sung and Kim Jong-il.

**What is the North Korean dictator song?** Significance. "No Motherland Without You" was composed especially for Kim Jong Il and is considered his "signature song". The song enjoys popularity in North Korea, where it is frequently broadcast on the radio and from loudspeakers on the streets of Pyongyang.

**What is the song played every morning in North Korea?** "Where Are You, Dear General?" is a North Korean song, supposedly written by Kim Jong Il. Since at least 2008, the song plays through speakers of the Pyongyang Railway Station in the morning, albeit heavily distorted. "Where Are You, Dear General?"

**Why can nobody escape North Korea?** Physical Isolation. It's illegal for North Koreans to leave their country without the government's permission. North Koreans who do attempt to leave the country illegally and are caught can face severe consequences including torture, forced labor, and life-imprisonment in a political prison camp.

**What do North Koreans think of Kim Il Sung?** Kim Il Sung. The personality cult surrounding Kim Il Sung is by far the most widespread among the people. While there is genuine affection for Kim Il Sung, it has been manipulated by the government for political purposes. The veneration of Kim Il Sung came into full effect following a mass purge in 1953.

**Is it true that you Cannot leave North Korea?** Freedom of movement. North Korean citizens usually cannot freely travel within, let alone outside of, the country. Emigration and immigration are strictly controlled.

**What is the main theme of Nothing to Envy?** In Nothing to Envy, the author recounts the little-known details of life in North Korea, seen from people who defected in the country. The main theme of the book is the effect of propaganda, misinformation, and media control, on the population of North Korea.

**Who is the main character in nothing to envy?** Mi-ran – (the main character) daughter of a kaolin miner, a South Korean POW, so with bad songbun, disqualifying her from advancement, but one that may finally be improved with work; is accepted at a teacher's college and begins teaching kindergarten classes right at the start of the country's devastating economic ...

**What type of novel is "Nothing to Envy"?** Non-Fiction Prose Study: Nothing to Envy by Barbara Demick.

**What is envy based on?** Often, envy involves a motive to "outdo or undo the rival's advantages". In part, this type of envy may be based on materialistic possessions rather than psychological states.

**Is BTS songs banned in North Korea?** Kpop in North Korea is not allowed: that means no concerts there or anything like that. You won't find any merch of any group there like you do in every corner of South Korea. But this doesn't mean North Koreans don't know about BTS or Kpop in general.

**Is Kim Jong Il still the leader of North Korea?** He led North Korea from the death of his father Kim Il Sung in 1994 until his death in 2011, when he was succeeded by his son, Kim Jong Un. Afterwards, Kim Jong Il was declared Eternal General Secretary of the Workers' Party of Korea (WPK).

**Who is the friendly father in North Korea?** The music was composed by Jong Chun Il. The lyrics of "Friendly Father" were written by An Pun Hui and praise North Korean supreme leader Kim Jong Un as a "trustworthy and loving leader". The chorus encourages the listener to "boast about Kim Jong Un, a friendly parent".

**What time do people wake up in North Korea?** Citizens who live in Pyongyang, North Korea's capital, wake up early every day to eerie music. Viral videos have resurfaced of a 6 a.m. alarm blasted through the city's loudspeakers.

**Why North Korea is called Land of Morning Calm?** This is an image of the lovely landscape of Korea. It is a place of great natural beauty, featuring stunning mountains, clear waters and serene countryside. Indeed, its tranquil scenery has led to Korea being traditionally known as the "Land of Morning Calm."

**Do they listen to music in North Korea?** So, yes you can very much listen to music in North Korea, sing in North Korea, dance in North Korea and overall eat, drink and be very merry in the country, despite what rumors you might have heard to the contrary. And YPT run a number of tours where you can do this, such as New Year, or when concerts are held.

**What is the 3 generation rule in North Korea?** While persons convicted of ordinary crimes serve fixed sentences, those convicted of political crimes are confined indefinitely. Punishment is extended to three generations – the offender's parents, siblings, and children are also incarcerated, as a way to pressure North Koreans to conform.

**Can you leave North Korea if you were born there?** For North Koreans to make a living, escape from North Korea, find freedom, and survive, [these] are possible only [by going] against the state law. Therefore, when they come to [an] “alien land,” there are cases where people do not want to follow the law, or do not trust or rely on the benefits provided by the state.

**Who was the girl who escaped North Korea?** Yeonmi Park's first book was her memoirs titled *In Order to Live: A North Korean Girl's Journey to Freedom* (2015), which was published in the United States by Penguin Press.

**How do South Koreans feel about North Korea?** According to a 2014 BBC World Service poll, 3% of South Koreans viewed North Korea's influence positively, with 91% expressing a negative view, making South Korea, after Japan, the country with the most negative feelings of North Korea in the world.

**What does North Korea think of America?** Relations between North Korea and the United States have been historically hostile. The two countries have no formal diplomatic relations. Instead, they have adopted an indirect diplomatic arrangement using neutral intermediaries.

**What is the most strict rule in North Korea?** The North Korean government does not permit freedom of thought, opinion, expression, or information. All media is strictly controlled. Accessing phones, computers, televisions, radios, or media content that is not sanctioned by the government is illegal and considered “anti-

socialist behavior” to be severely punished.

**What is the highest score on the Oxford placement test?** Results include CEFR level (Pre-A1 to C2), a score out of 120, and the time taken.

**Is Oxford Placement test reliable?** The test was developed by Oxford University Press (OUP) to provide institutions with a quick, reliable way to place English language students into the correct level English class. Placement testing is a key stage in the learning cycle.

**How to check Oxford English test result?** View my results We'll send you an email when test results are available. You can view your results online. To view your results: Go to [oxfordtestofenglish.oup.com](https://oxfordtestofenglish.oup.com).

**How do I assign an Oxford placement test?**

**What is the hardest school to get into Oxford?** All Souls College All Souls is the most elusive Oxford College and it takes no undergraduate students. In order to get in, graduate and postgraduate students apply for examination fellowships through “the hardest exam in the world”.

**What is the acceptance rate for Harvard vs Oxford?**

**Is it OK to fail a placement test?** You can't fail a placement test for college. If you receive a low score, you'll be placed in developmental classes for that subject to help increase your knowledge of the topic before you advance to more rigorous courses.

**What are the odds of getting accepted to Oxford?** Oxford University is one of the most prestigious and competitive universities in the world, with an undergraduate acceptance rate of around 15-17.5%, and a postgraduate acceptance rate of about 30%.

**How hard is Oxford entrance exam?** How hard are the Oxford entrance exams? These admissions assessments are designed to stretch the very best applicants and will be challenging but prospective Oxford students will embrace this process! Candidates who have negotiated these tests successfully do however often make two comments.



**How long is the Oxford English test valid for?** Your certificate is valid for life, meaning you can use it in the future whether it's applying for a job or university. Oxford International English Schools have 3 accredited test centres in Brighton, Greenwich and Oxford.

**How much does the Oxford test of English cost?** Thank you for making a student's challenges easier." The ELLT costs only £120, and you can send your scores to institutions for no extra cost.

**What day do Oxford results come out?** Shortlisted candidates for 2025 entry will be told whether or not their application has been successful on 14 January 2025.

**What is the maximum score on the Oxford online placement test?** At the end of the test, you'll see a total score between 1-120, and individual scores for the two parts. This means that you'll be able to see whether you might need to work harder on either grammar & vocab, or on understanding the meaning in spoken English.

**What language is used in the Oxford Placement Test?** The Oxford Placement Test is in two parts - Use of English and Listening. Students are tested on their knowledge of grammatical form and vocabulary in the Use of English section, as well as their listening skills in the Listening section.

**How do you pass a placement test?** Test Taking Strategy Remember that the Placement Test is not a pass or fail test. It is used to PLACE you in the appropriate classes for your level. Simply prepare and do your best. If you are not sure of an answer, try to eliminate one or more of the choices and answer what appears to be the best choice.

**What GPA does Oxford want?** Undergraduate qualifications If your graduate course at Oxford requires a 'first-class undergraduate degree with honours' in the UK system, you will usually need a bachelor's degree with an overall grade of Class 1, 'A' or 80%, or a GPA of 3.7 out of 4.0.

**What is the most elite college at Oxford?** 1. Merton College. Merton College is one of the most popular Oxford colleges and sits at the top of Oxford's Norrington Table with a score of 82.9%.

**What is the easiest college to get into at Oxford?** Hilda's is the easiest Oxford college to get into, though. Oxford has a system it calls 'pooling'. If course places at one college fill up, but the admissions still think that you are a strong candidate, they will send your application to other colleges to consider.

**Is Oxford more prestigious than Ivy League?** The standards of Ivy League universities are met by a large number of extremely selective universities across the globe. Nobody disputes Oxford's standing as a university of the same calibre as Harvard, Princeton, or Yale, despite the fact that it is not an Ivy League institution.

**Is it harder to get into Oxford as an American?** Admission to Oxford University is highly competitive for students from all backgrounds, including US students. The university receives a large number of applications each year, and the selection process focuses on academic excellence, personal achievements, and potential for success.

**Why is Oxford University so prestigious?** The University of Oxford has an outstanding global reputation for its teaching, research and contributions to society. We combine rich history and tradition with the innovative and forward-thinking approach of a modern university.

**What is the highest placement in Oxford?**

**What is the highest score you can get on a placement test?** Reading, Writing, and Math Tests ACCUPLACER Reading, Writing, Quantitative Reasoning and Statistics, and Advanced Algebra and Functions tests each have a score range of 200–300.

**What is a good score on the Oxford Pat?** By achieving a 60 or higher, you will be placing yourself in a very competitive position with your Oxford application.

**What is the highest score on the advanced placement exam?** AP tests are scored on a scale from 1 (low) to 5 (high).

**Tabel Profil Baja Hollow: Panduan Komprehensif**

Baja hollow atau Hollow Structural Section (HSS) adalah material konstruksi serbaguna yang banyak digunakan dalam berbagai aplikasi. Tabel profil baja hollow memberikan informasi penting tentang dimensi, sifat mekanik, dan kapasitas beban berbagai jenis baja hollow. Artikel ini membahas pertanyaan umum tentang tabel profil baja hollow dan memberikan jawaban komprehensif.

**1. Apa itu Tabel Profil Baja Hollow?** Tabel profil baja hollow adalah referensi yang mencantumkan dimensi, ketebalan, berat, dan sifat mekanik berbagai profil baja hollow. Ini memberikan informasi yang diperlukan untuk desainer dan insinyur untuk memilih ukuran dan jenis baja hollow yang tepat untuk aplikasi tertentu.

**2. Apa Informasi yang Tersedia dalam Tabel Profil Baja Hollow?** Tabel profil baja hollow biasanya berisi informasi berikut:

- Bentuk profil (persegi, persegi panjang, atau bulat)
- Dimensi luar dan dalam
- Ketebalan dinding
- Luas penampang
- Berat per meter
- Momen inersia
- Modulus penampang

**3. Bagaimana Cara Menggunakan Tabel Profil Baja Hollow?** Untuk menggunakan tabel profil baja hollow, tentukan bentuk dan dimensi baja hollow yang dibutuhkan untuk aplikasi tertentu. Kemudian, cari profil yang sesuai dalam tabel dan periksa informasi yang relevan, seperti berat, kapasitas beban, dan sifat mekanik.

**4. Apa Perbedaan Antara Pipa Baja dan Baja Hollow?** Pipa baja adalah material tabung yang memiliki diameter dalam dan luar yang seragam. Baja hollow, di sisi lain, memiliki bagian penampang berongga dan ketebalan dinding variabel, memberikan sifat struktural yang lebih baik.

**5. Untuk Aplikasi Apa Baja Hollow Digunakan?** Baja hollow banyak digunakan dalam berbagai aplikasi, termasuk:

- Peningkatan struktural
- Tiang dan kolom
- Penahan angin
- Perancah
- Pegangan tangga

Dengan memahami tabel profil baja hollow, para profesional konstruksi dapat dengan mudah memilih profil yang tepat untuk proyek mereka, memastikan kinerja struktural yang optimal dan keamanan.

[nothing envy ordinary lives north, oxford placement test 2 grammar answer grubby, tabel profil baja hollow](#)

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