

About Da Vinci Magazine

Ibrahim Babir



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Ibrahim Babir

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Who Was Leonardo da Vinci?

Diego Zaffaroni



Our company takes pride in being named after Leonardo da Vinci as he represents genius as no other.

Our company takes pride in being named after Leonardo da Vinci as he represents genius as no other. Even though his paintings are famous, he considered himself an inventor and an engineer.

Also, he was a perfectionist but he was continuously looking at new works and as a consequence, rarely considered his previous ones truly finished

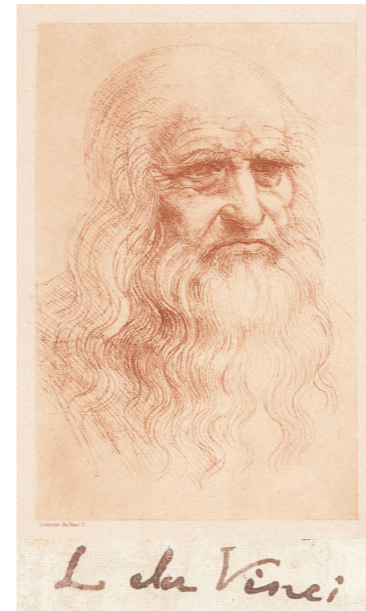
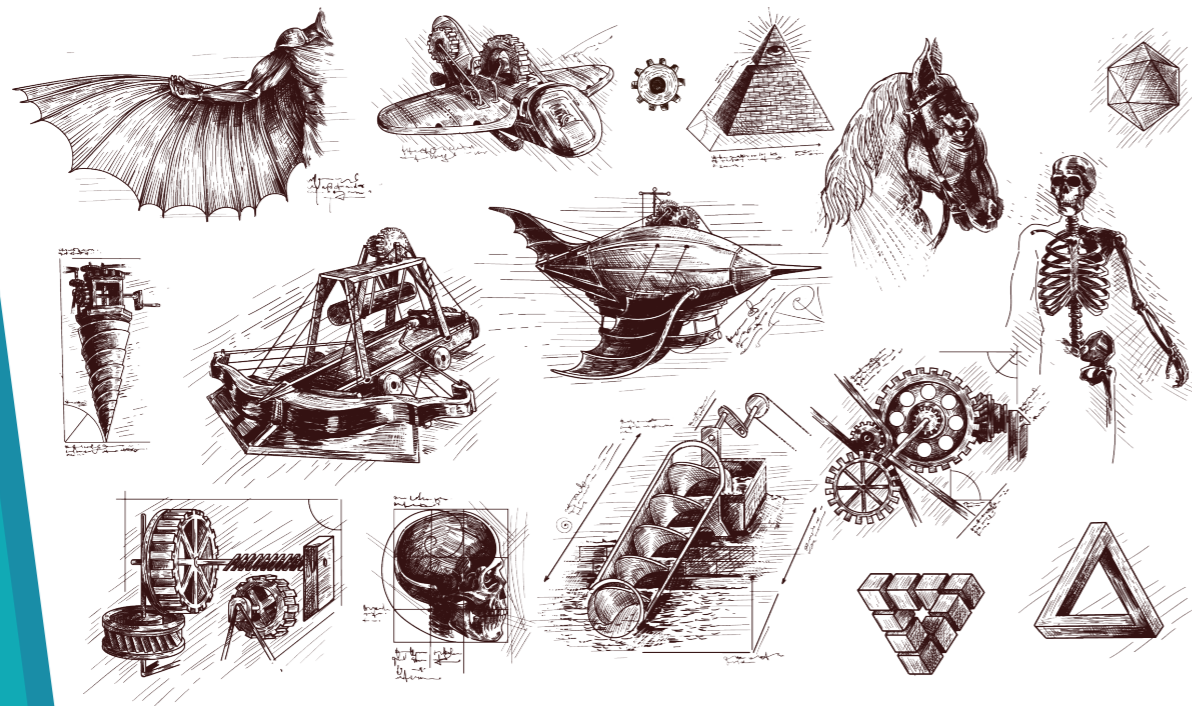
His constant search for new inputs was our great source of inspiration when we were looking at the best way to communicate our vision for and deep involvement in the field of education in our region.

He is considered one of the world's most gifted painters, but the creator of the 'Gioconda' or 'Monna Lisa' – the portrait of Monna Lisa del Giocondo as indicated by G. Vasari in 1525 - was also interested in architecture, anatomy and nature.

An illegitimate child, Leonardo was born in the hill town Vinci near Florence and where he got his surname. He eventually came to live with his father.

He proved to be gifted from an early start. He studied science and he showed he was a talented drawer. His father would get him an apprenticeship with the artist Andrea del Verrocchio, but Leonardo was also interested in the research in anatomy carried out at the school of the 'Pollaiuolo'.

Later in life, Leonardo continued to show his interests and his exceptional observational skills. Modern technology helps us know more about how he lived his life; for example, prints or residue from the things he touched which penetrated the paper of his drawings. His notes are just as unique as his fingerprints; at first glance, they look almost illegible but Leonardo was ambidextrous and used mirror writing – if you use a mirror, you can read his text with a little bit of practice.



In his life, Leonardo was interested in flying. He studied the flight of birds and designed flying machines again showing he was ahead of his time.

He was also able to make the map of an Italian city, Imola, which is highly accurate even though he did not have satellites and Google Maps. You may probably

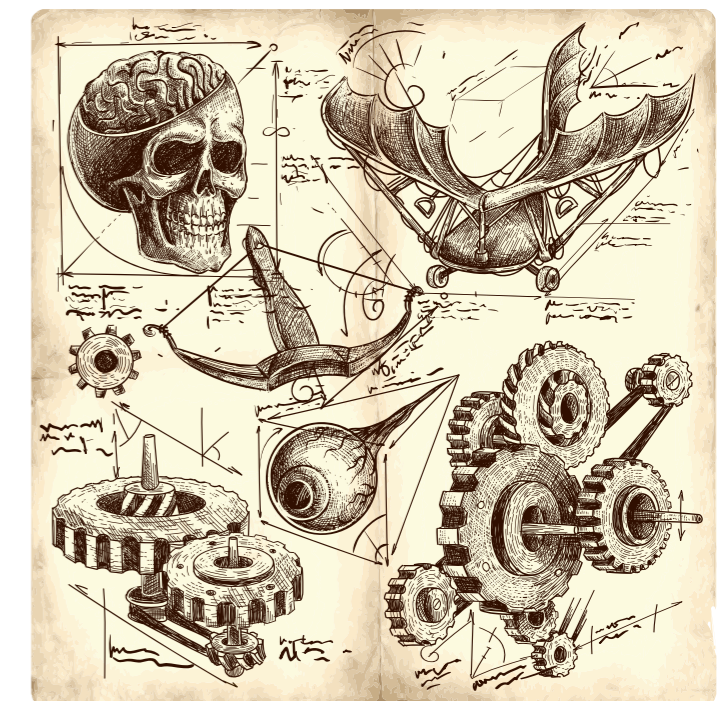
find your way through the city just by using that incredible map as it represents true innovation, moving away from perceptions towards more realistic and practical applications.

To this day researchers are still figuring out if a 'Da Vinci Code' really exists. Even though most of his written materials has been lost, the artist left a considerable amount of manuscript pages written cryptographically; although we have lots of documentation about him, he still remains one of the most mysterious figures of Modern History.

We only have one of Leonardo's self-portraits which he drew when he was approximately 60 years of age; it is known as 'the Portrait of a Man in Red Chalk' in the Biblioteca Reale, Turin, Italy.

Perhaps there has never been somebody with so many talents, in music, graphics, architecture, natural sciences, and his superlative painting talent. If you are interested in knowing more about Leonardo 500 years after his death in May 1519, and you have the chance to travel, there will be plenty of opportunities across Western Europe. Museums in Italy, France, the UK and on the other side of the Atlantic, the US, are all hosting very special exhibitions to celebrate Leonardo's genius.

Are you interested in sharing your Leonardo experience with us? Please do so by sending us an email or through our social media channels. Thank you.



Personal Project: The Exposure of Gaming

Vari Babir / Grade 10

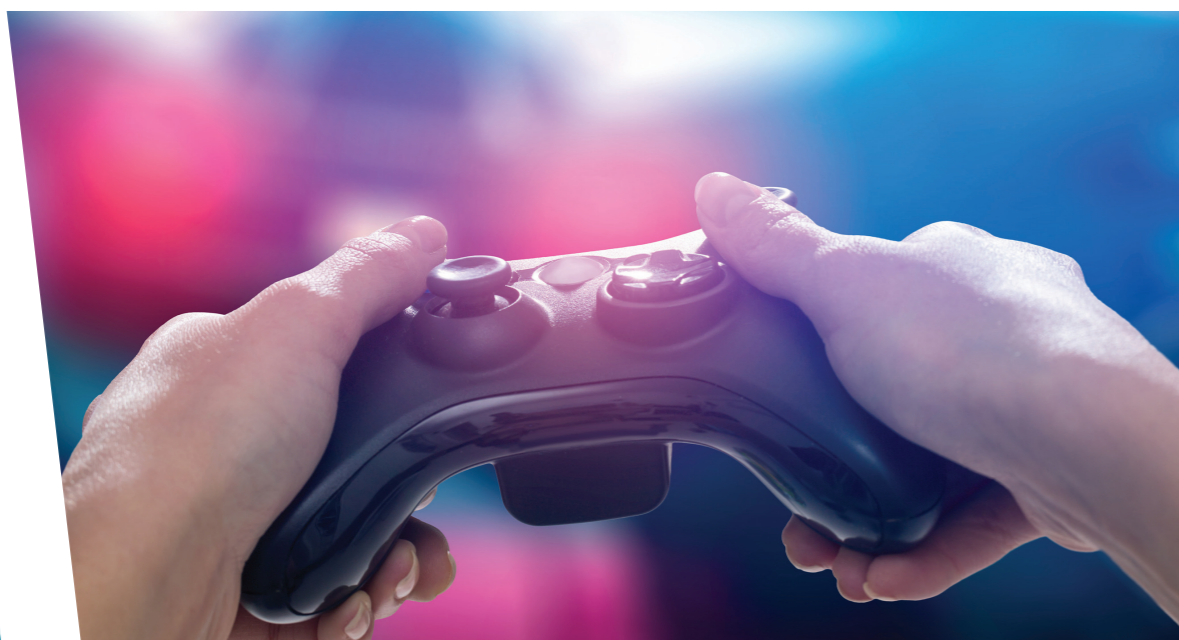
What is the Personal Project? The personal project is made to acquire ATL (Approaches to Learning) skills used to help the students in the IB programme.



It is also used for all students to express their feelings about a specific topic and to drive initiative in what they are interested in.

I chose this topic - the exposure of gaming - as I am aware it is relevant to the students' lives and requires more attention from society. Some people made theirs about symptoms of kidney disease, while others made it about the effects of gaming, and etc. It is a brilliant way for the IB to understand how students think as it helps them gain more

knowledge about their subject or a fairly similar project. My personal project is called "The Exposure of Gaming" and it looks at my appreciation of gaming. Gaming has had a great influence on many people around the world, but some people think of it otherwise. My goal is to change the community's perspective and give them a new idea about gaming. Gaming is being blamed for many issues around the world, for example bullying, school shootings, and mental and physical health problems.



Many of the personal projects help students gain skills during the process of completing their journey. These skills are:

- 1- **Communication**
- 2- **Taking risks**
- 3- **Being Principled**
- 4- **Self-Management**
- 5- **Research**
- 6- **Social**

These are only some of the ATL skills that students get throughout the personal project. I have acquired most of these skills going through my personal project. I gained communication because of raising awareness I had to have meetings with teachers and students, and gaining guidance of my supervisor to get multiple perspectives regarding what I had to do. I have become a risk-taker because I chose a subject that many people will stand against because it is a very susceptible topic. Principled, I always thought I was right and didn't allow others to change my mind,

I had used proven scientific facts and changed the minds of many. Self-management, I have managed my time perfectly with meeting each deadline and had extra time to improve my personal project. I have used a variety of sources to verify and get proof of the facts I have collected. I had a meeting with many students and teachers and I was able to maintain conversations with many people so I gained the perspective of other people and how they are also right in some cases.



During the MYP (Middle Years Programme), there are various global contexts that apply to the IB. Global contexts are used to learn more about the outside world and they assist students and/or teachers to be more open-minded. These global contexts are:

- 1- **Identities and relationships**
- 2- **Orientation in space and time**
- 3- **Personal and cultural expression**
- 4- **Scientific and technical innovation**
- 5- **Globalization and sustainability**
- 6- **Fairness and development**

These are the global contexts that relate to the subject in a specific class; every class is taught through the lens of one of the global contexts.



What do I hope to achieve using the personal project?

My personal project is specifically about games being blamed for violence, depression, anxiety, etc. I want to teach people that games are actually an amazing way to communicate with people; for example, games that focus more on stories and various topics they could choose from such as education, math, life, etc. I am trying to improve the community around me and share my view about gaming, while some people make fair points against my claims, I believe that the pros far outweigh the cons.

I have developed new perspectives and what are people's thoughts on my topic in a personal project. I now have better research skills and I think I am a better communicator; I took a risk by dealing with such an issue with people who do not share my opinion as my subject is delicate; I have managed my time to meet deadlines and so on.

My personal project which is titled "*Exposure of Gaming*" is organised into the following parts:

Introduction

Explaining my subject for my supervisor.

Investigation

Learn more about the subject I had chosen.

Planning

Planned my goal and how I will communicate with the community.

Taking action

I executed my plan and started meeting with teachers and students and collect their outlook on games.

Reflection

Compare the results of what people think and how it had affected my point of view.



What is the MYP programme?

Lava Jalal / Grade 9

My name is Lava and I am a student in grade 9 at Da Vinci School – International in the city of Duhok, Kurdistan. My dream is to become an architect or engineer.



What is the MYP programme?

IB means International Baccalaureate and it prepares you for your future as it helps you develop international-mindedness and an appreciation of new cultures, nationalities, and traditions.

IB has different programmes, for example, PYP (Primary Years Programme), MYP (Middle Years Programme), DP (Diploma Programme), and CP (Career-related Programme). Currently I am in my fourth year of MYP.



Can you explain what an International Education is? How is it different from the KRG system?

The MYP intends to encourage the students and challenge them to connect their studies to the real world. They try to challenge the students because in the future they have to be prepared to face their problems in the real world.

International education is shaped to support the students who study in different countries; it could be a part of their studies, and it helps them get new ideas and be more open-minded. It prepares the students to be more active to face the world. The International Baccalaureate defines it all because they want their students to be internationally

mindful and responsible, active citizens of the world. An international education makes you aware of other cultures and traditions in the world.

The international system and the KRG system are different because an international education provides you with a lot of information that can help you in the future, and it gives you a deeper understanding of the subject you are learning. International education tends to get the students more able to understand and apply what they are learning, but in the KRG system students just memorize and they do not always develop a deeper knowledge of the information that they get from memorization. I think it will not benefit you because memorized information can be forgotten easily; I also feel that the level of information that is provided by the IB system is much higher than the KRG system.

What is unique and interesting about your school?

My school's uniqueness is that it makes sure the students are open-minded and that they are ready to face their future. Our school also makes us understand the subject instead of memorization. I do not have a favourite subject because all of the subjects that I study have their own uniqueness and I like them all equally.



Our independent bookshop opened in Duhok in November 2017 with the ambition to offer official, high quality books and learning resources to the readers and learners in the Kurdistan region.

It stocks a wide range of genres and more and more titles will become available with special attention to children's literature and adult fiction.



Something that was missing, local customers said, was an international bookshop so we thought it was only right to open in our current location, the Family Mall when the premises became available.



We want to actively contribute to the bookselling and publishing scene in an area that still does not have many independent bookshops. The Da Vinci Bookshop aims at becoming, a truly unique space where people may spend their time and enjoy their books with a warm and dynamic community.

We believe it is crucial for the book lovers of Kurdistan to have more choice as we offer the products from publishers such as Cambridge University Press, Penguin Random House, DK, and Jolly Learning, with more to come soon. Please feel free to come and visit us; we will be happy to welcome you and know more about your favourite books.



The Benefits Of School Field Trips

By Rewan Rashid Hussien

Learning is a long journey we all have been through on different occasions. We are all life-long learners, no matter how old we are. We learn new things every day.

Have you ever thought about the things that you have done at school, were they relevant to the real world situations? Did they make you who you are today? Possible examples are team working projects, guest speakers, or field trips that helped you to learn. Many factors also help facilitate fast and efficient learning, and school field-trips are productive activities for students.

Each student is unique, and each one comes to class with different world experiences. We know that students who are exposed to many different things do better in school. In order to become successful learners, students need to connect what they study to what they experience in real life. To think critically, students need to have a variety of real-life experiences.

2. Eliminate Classroom Boredom

Learning outside of the box promotes excitement and happiness. School field trips deepen students' understanding for better learning. They are motivating and engaging for students, whereas students explore and experience new ideas and places that contribute to reinforce the knowledge base and the ability to communicate. Field trips erase the boredom of the classroom lesson, even if it's just for one day. However, it awakens the student's interest to learn and get new learning information, no matter how boring the subject is in theory.



3. Learning Outside the Classroom Improves Relationships

Improving social skills is one of the most important goals for any teacher. Helping children to develop these important skills requires a different set of strategies in each stage of development

Therefore, field trips are great tools to build and enhance relationships as well as personal development and wellbeing of students. They can communicate better with each other including their teachers and peers. Overall, field trips provide an excellent way of expanding social, communication, and gross motor skills.



As teachers, we know that field trips are incredibly vital. There are a number of significant benefits:

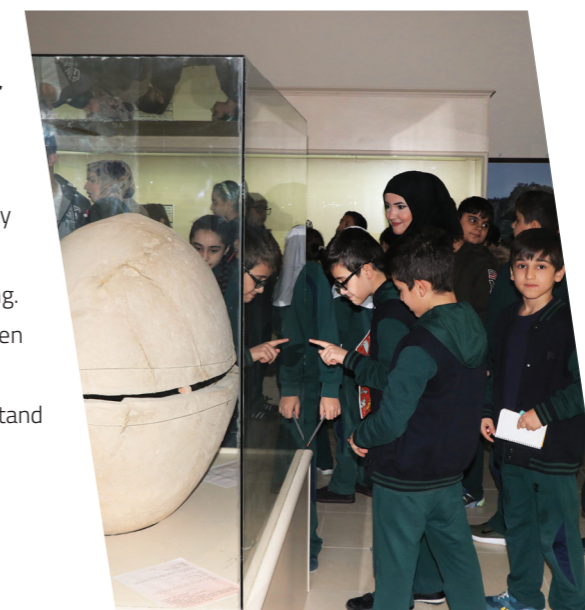
1. Connects Students To the Real World

School field trips provide each student with real-world experiences. They provide the most important tools that help students make a connection between what has been taught in the class and what is happening in the real world. Whether the trip is to a museum, university, factory, hospital, community garden, or a supermarket. These field-trips help students to use their critical thinking skills, and help them to solve real-life problems and can even have a direct impact on their identities.



4. Field-Trips Improve Academic Achievement

There is evidence from research, and from my own experience, that field-trips bring better results in the process of teaching and learning. Learning does not happen only in school. Often real life learning is even more powerful and makes students more likely to better understand a topic. Such integration helps students to perform better in their tasks and projects.



International Schools

By Ayman O. Sulaiman

International education could make the world a more interconnected place, it has pioneered new models of collaboration across institutions of higher education with a worldwide reach. Today, IE supports flagship educational and cultural exchange programs and assists scholars.



We would define international education as one that combines an openness to and awareness of diversity across cultures and markets.

In a company with a global mindset, people view cultural and geographic diversity as opportunities to exploit and are prepared to adopt successful practices and good ideas wherever they come from.

Today, IE supports flagship educational and cultural exchange programs and assists scholars.

Over the years, a propensity and ability to see common patterns across countries and markets have emerged and it has become increasingly relevant to communities of learners and their families across continents.

The development of a global and interconnected mindset has made people view their cultural and geographic identities as multifaceted and increasingly complex, always developing and mutually interchangeable.

The twin forces of ideological change and

technology revolution are making globalization one of the most important issues companies face today. As such, international education and cultivating a global mindset are prerequisites to becoming a global company or society.

So, let's focus more on the international education which is apparently playing a quite significant role as a pedagogical system. The common definition of the international school is a place where promotes international education, in an international environment, either by adopting a curriculum such as that of the International Baccalaureate (IB Schools), Edexcel or Cambridge Assessment, or by following a national curriculum different from that of the school's country of residence. These

schools cater mainly to students who are not nationals of the host country, such as the children of the staff of international businesses, international organizations, foreign embassies, missions, or missionary programs. Many local students attend these schools to learn the language of the international school and to obtain qualifications for employment or higher education in a foreign country.

At a conference in Italy in 2009, the International Association of School Librarianship came up with a list of criteria for describing an international school, including:

1. Transferability of the student's education across international schools.
2. A moving population (higher than in state schools or public schools).
3. Multinational and multilingual student body.
4. An international curriculum.
5. International

accreditation (e.g. Council of International Schools, International Baccalaureate, North Eastern Accrediting Commission for Schools, Western Association of Schools and Colleges).

6. A transient and multinational teacher population.
7. Non-selective student enrollment.
8. Usually English or French as language of instruction, plus the obligation to take on at least one additional language.

Hannah Smith of The Guardian wrote in 2013 that many students of the international schools move between countries and places constantly. Several reported that they feel they have no place where they have roots or a background to call home. The graduate students from these schools have no sense of boundaries and feel what a global village really is. It shows how important education and its approach can be!

We have educational systems in which instead of creative, open-minded, risk-taker and inquirer students, a bunch of robots graduate who have no sense of the world around, and not mentally nor physically are ready to join the society.

The result of many studies even show that these students are not confident enough to know what they are willing to study in the college or university, because the educational system didn't give them the chance to know themselves and explore their talents to make sure what they are good at and what they're not.

In the contrary, international schools give the freedom of building strong, confident and knowledgeable personalities who can travel, study and work worldwide. And this is the main mission of these schools.

To provide the society with the students who are capable of thinking beyond the borders and geographical limitations, introducing a young generation who are ready to rule the world and make it a better place.



What is IB?

Mahsa Sadraei



How does the International Baccalaureate prepare students for college?

When we talk about education and what it means, what we really want to know is how to implant in our students the knowledge that will make them better learners and better people. How can we be sure that we send them off into life with the skills they really need to grow and develop in a successful, happy way?

International Baccalaureate (IB) is a worldwide, nonprofit education program founded to give all students the opportunity to receive an education fit for a globalizing world. There are four IB education programs, all of which are intended to develop students' intellectual, emotional, personal and social skills. High school students will mostly be concerned with the IB Diploma Program (DP) and the Career-related Program (CP), which consist of six main subjects.

What is the International Baccalaureate?

ib Primary Years Programme

IB-PYP is a curriculum framework designed for students aged 3-12 years. It focuses on the development of the whole child as an inquirer, both in the classroom and in the world outside. It is defined by six transdisciplinary themes of global significance. These are explored using knowledge and skills derived from six subject areas, with a powerful emphasis on inquiry-based learning.



ib Middle Years Programme

IB-MYP is a conceptual curriculum framework for students between the ages of 11-16 years. The MYP aims to develop active learners and internationally-minded young people who can empathise with others and pursue lives of purpose and meaning. The programme empowers students to inquire into a wide range of issues and ideas of significance locally, nationally and globally. The result is young people who are creative, critical and reflective thinkers.



ib Diploma Programme

The IB Diploma Programme is a curriculum framework for students between the ages of 16-19 years. The IBDP aims to develop students who have excellent breadth and depth of knowledge – students who flourish physically, intellectually, emotionally and ethically. The DP was established to provide students with a balanced education, to facilitate geographic and cultural mobility and to promote international understanding.



Who is eligible for an International Baccalaureate program?

International Baccalaureate's mission is to offer education to all students, so any high school student between 16 and 19 years old can apply for the program. IB doesn't have any other restrictions, but individual schools may have GPA requirements, and many have limited spots in their programs, so the application process can be competitive. Students should check with their counselors for their IB program's specific requirements.

How do I become an International Baccalaureate student?

Students interested in joining the IB program usually need to complete an application by a specified deadline, which can be found on their IB school's website. Applications may require teacher recommendation letters, grade reports, essays, writing samples or a personal statement, vaccination reports and a list of extracurricular activities. Students may also have to live within a certain distance from the school offering the IB program.

When should I enroll in an International Baccalaureate program?

While the DP and CP programs technically don't begin until a student's junior year, IB students start taking prep courses as soon as they enter high school. Because of this, the application process typically begins in 8th grade, about a year before a student starts their freshman year. Specific dates and deadlines vary between programs, so students and their families should check with counselors and their intended IB program for details.

How does the International Baccalaureate prepare students for college?

The IB emphasizes personal student development as one of its main achievements, and it's true that IB provides an enriching high school experience. But prospective IB students who are looking ahead toward post-secondary education should be pleased to know that IB graduates also benefit from being extremely well-prepared for college in a number of different ways.

Petroleum Engineering

Hadi Pirmoradi



Application of the knowledge, technology, mathematics and economics within exploration, production and development of the oil and gas fields from the subsurface to the surface facilities (upstream) and transferring it to the refinery and petrochemical plants (downstream) is called petroleum engineering.

Application of the knowledge, technology, mathematics and economics within exploration, production and development of the oil and gas fields from the subsurface to the surface facilities (upstream) and transferring it to the refinery and petrochemical plants (downstream) is called petroleum engineering. In fact, the role of a petroleum engineer is in the upstream sector.

The upstream sector is divided into exploration, drilling, reservoir and production. The combined efforts of geologists and petroleum engineers throughout the life of a hydrocarbon accumulation determine the way in which a reservoir is developed and depleted, and usually they have the highest impact on field economics. In the exploration stage, a petroleum engineer by using different methods determines the location of a

reservoir and estimates its dimension and the oil/gas which is trapped in it. After exploration of an oil/gas field, then wells should be drilled to investigate the amount of the oil/gas, the characteristic of the fluid and production. To drill a well, depending on the type of the soil and stone of the reservoir and also the depth of the layers of oil/gas, a petroleum engineer uses different methods for drilling. It may be necessary to drill a lot of wells to distinguish the production feasibility and for this reason, the most cost of a field development are invested on these two sections: exploration and drilling.

After proofing that a field is economic for production, then the surface facilities are designed and developed to let oil/gas go to the surface safely and to perform the first treatment using production facilities. In this stage, petroleum engineers will try to produce oil/gas in the ways that it can be delivered to refinery and downstream facilities as well. During all of these three stages (exploration, drilling, production), a petroleum engineer which is expert in the reservoir (reservoir engineers) exists to monitor all the activities. He/she should know the reservoir characteristics to design and develop all the



methods to maximize the oil/gas recovery during the life time of a field. Reservoir engineers play an important role during this life time.

After the first treatment of oil/gas in the upstream facilities, it can be handed over to the downstream facilities like export terminal, refinery and petrochemical plants.

ENG. HADI PIRMORADI

MSc in Chemical Engineering



Finance

Dania / Munich college student of Finance:



Debt finance, Equity finance. Debt and equity finance are the two main types of finance.

Debt finance is defined as the money that is borrowed from external lenders. As an example a bank. Equity finance means investing your own money or funds from other stakeholders, in exchange for partial ownership.

The advantages of debt finance are keeping control over the firm, the interest is tax deductible and loans can be short or long-term. The advantages of equity finance include: They are less risk than a loan; the availability of cash and investors can give credibility and skill sets to your business.



Finance has always been highly important whether it is in a business or everyday life. It is vital for businesses and people to manage financial risks as they arise. Understanding how to manage your own personal finance can also support you to better manage a firm's finance. Additionally, it can help individuals set goals and gain skills in planning as well as decision making. Of course there is a difference between the two; however, the fundamentals of personal and business finance are relatively similar.

Moreover, finance is highly important due to budgeting. Budgeting is done to keep track of income and expenditures. It starts by deciding on the financial goals, to which the budget will be made. Additionally, the other vital processes that are related to budgeting include areas such as forecasting, monitoring, controlling and evaluating the financial goals. Budgeting plays a crucial role in companies



economies in Europe and their finances are highly important.

Finance affects people as having money can provide you with power. Therefore if this power, no matter how small it is, is used negatively, it can impact communities and societies. Money or the lack of money creates classes in societies that rank people based on how much wealth they have, which is ethically wrong.

Companies always aim to increase revenues, profits and margins. Therefore there have to be the right steps in order to achieve these goals. Ethically speaking, companies have to be very careful to avoid bankruptcy as it would affect employees in their personal lives.

because it aids the firms' understanding of their expenses and their future objectives. One of the most common mistakes startup businesses make is going overboard with their budgeting.

In regard to the country with very famous finance, it is seen to be Germany. Germany has six of the safest banks in the world, one of them is the KfW which is the world's safest bank. Germany also has one of the strongest and stable





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