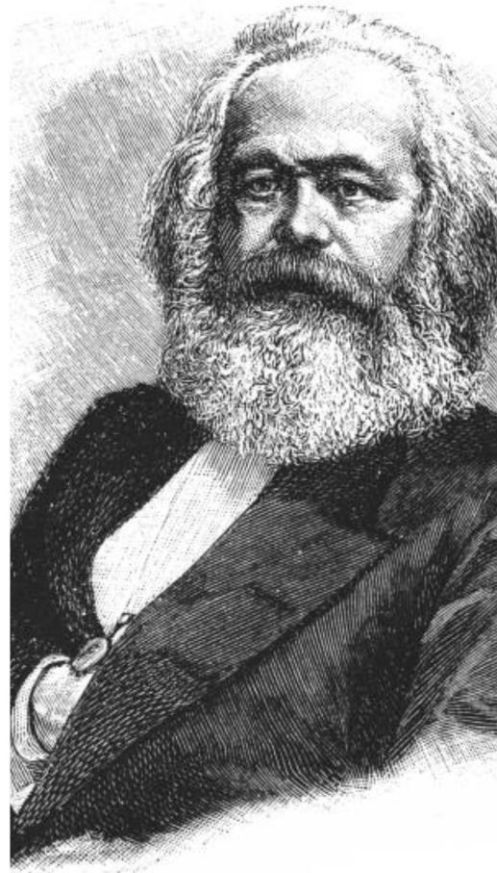
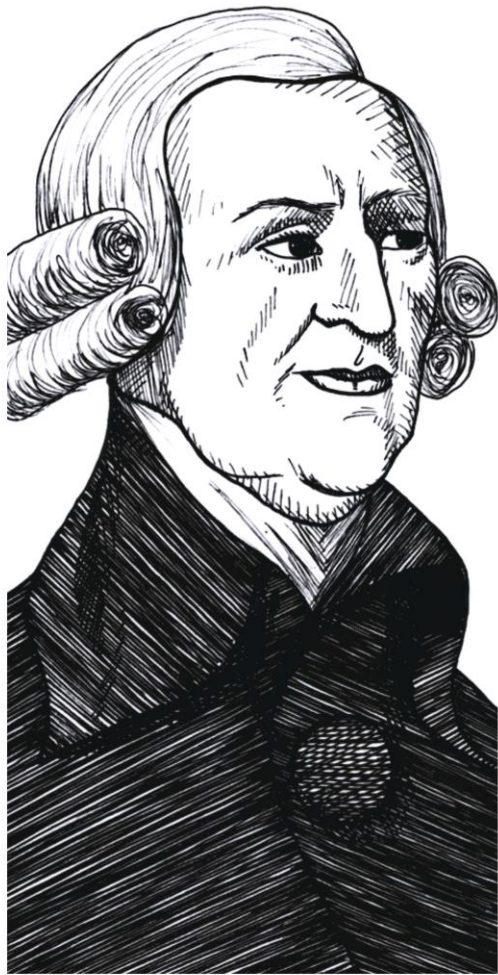




NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY  
SCHOOL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCE



# **ECO-130: Engineering Economics**



## **Semester Project: Capitalism vs Socialism**

Project Report

Submitted to: Ms. Zainab Zeeshan

<b>Group Members</b>	<b>CMS</b>
Amur Saqib Pal	288334
Sannan Abbasi	293786
Junaid Ali	290927
Shahzaib Ahmed	315807
Muhammad Hassan	315859

# Introduction

Capitalism and socialism are two different economic systems that have been the subject of much debate and discussion. Both systems have their own distinct characteristics and have been implemented in various countries around the world. In this report, we will explore the key features of capitalism and socialism, their histories, and how they have evolved over time. We will also examine the different types of capitalism and socialism that have emerged and how they differ from one another. Finally, we will look at the current economic system of Pakistan and how it compares to capitalism and socialism.

## Historical Aspect

Capitalism has its roots in the 16th and 17th centuries, when merchants and traders in Europe began to accumulate wealth and power through trade and commerce. The rise of industrialization in the 18th and 19th centuries further fueled the growth of capitalism, as factory owners and industrialists amassed wealth and influence. In a capitalist system, private ownership of the means of production and the pursuit of profit are key characteristics.

Some of the key figures who contributed to the development of capitalism include Adam Smith, who is considered the father of modern economics. Smith's book "The Wealth of Nations" argued that the pursuit of self-interest and competition in a free market would lead to the most efficient and prosperous society. Other prominent figures in the history of capitalism include John Locke, who argued for the right to private property and the protection of individual rights, and David Ricardo, who developed the theory of comparative advantage, which explains how countries can benefit from trade.

Socialism has its roots in the 19th century when philosophers and economists began to critique the inequities of capitalism and propose alternative systems. Socialism advocates for the collective ownership of the means of production and distribution, with the goal of creating a more equitable society.

Some of the key figures who contributed to the development of socialism include Karl Marx, who is considered one of the most influential socialist theorists. Marx's ideas about socialism were based on the concept of class struggle and the idea that the exploitation of the working class by the capitalist class would eventually lead to a socialist revolution. Other prominent socialist theorists include Friedrich Engels, who co-wrote "The Communist Manifesto" with Marx, and Vladimir Lenin, who played a key role in the Russian Revolution and the establishment of the Soviet Union.

## Types of Capitalism

There are several different types of capitalism that have emerged over time. Some of the key types include

- Laissez-faire capitalism: This type of capitalism is characterized by minimal government intervention in the economy and a focus on free market principles.
- State capitalism: This type of capitalism involves a high degree of government intervention in the economy, including regulation, subsidies, and state ownership of key industries.
- Mixed economies: Many countries today have mixed economies that combine elements of capitalism and socialism. In a mixed economy, the government plays a role in regulating the economy and providing certain public goods and services, while private enterprise and individual ownership are also allowed.

## Types of Socialism

Like capitalism, there are several different types of socialism that have been developed and implemented over time. Some of the key types include:

- Communist socialism: This type of socialism advocates for the complete overthrow of capitalism and the establishment of a classless, stateless society based on common ownership of the means of production.
- Democratic socialism: This type of socialism seeks to gradually transition from capitalism to socialism through democratic means, rather than through revolution. It advocates for a greater role for the state in regulating the economy and providing public goods and services, but allows for private enterprise and individual ownership to continue.
- Market socialism: This type of socialism seeks to combine elements of socialism and capitalism, with the goal of creating a more equitable and efficient economic system. In market socialism, the means of production are collectively owned, but prices are determined through market forces rather than central planning.

## Pros and Cons of the Two Systems

Pros of Capitalism	Cons of Capitalism
<ul style="list-style-type: none"><li>● Economic growth: Capitalism encourages innovation and hard work, which can lead to economic growth and development.</li><li>● Individual incentives: The pursuit of profit in capitalism provides an</li></ul>	<ul style="list-style-type: none"><li>● Inequality: Capitalism can lead to income inequality, as those with more wealth and resources have an advantage in the market.</li><li>● Exploitation: In capitalism, companies may prioritize profits over the well-being of their employees, leading to</li></ul>

<p>incentive for individuals to work hard and be innovative.</p> <ul style="list-style-type: none"> <li>● Personal freedoms: Capitalism allows for a greater degree of individual freedom and choice, as people are free to start their own businesses and make their own economic decisions.</li> <li>● Efficient allocation of resources: The price system in capitalism helps to allocate resources efficiently, as prices reflect the supply and demand for goods and services.</li> </ul>	<p>exploitation and poor working conditions.</p> <ul style="list-style-type: none"> <li>● Environmental degradation: The pursuit of profit can also lead to environmental degradation, as companies may prioritize economic gains over environmental protection.</li> <li>● Market failures: In capitalism, market failures can occur when the market fails to provide certain goods and services that are necessary for the public good. This can result in a lack of access to basic necessities for some members of society.</li> </ul>
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Pros of Socialism	Cons of Socialism
<ul style="list-style-type: none"> <li>● Redistribution of wealth: Socialism seeks to reduce income inequality by redistributing wealth through progressive taxation and social welfare programs. This can help to improve the standard of living for those who are less well-off and reduce poverty.</li> <li>● Collective ownership: In socialism, the means of production are owned collectively rather than by individual capitalists. This can result in a more equitable distribution of the profits generated by these means of production.</li> <li>● Public goods and services: Socialism emphasizes the provision of public goods and services such as education, healthcare, and infrastructure. This can improve the overall well-being of the population and create a more equal society.</li> <li>● Economic stability: Socialism can help to reduce economic instability and minimize the effects of recessions and economic crises. This is because the government can use its powers of</li> </ul>	<ul style="list-style-type: none"> <li>● Inefficiency: Socialism can lead to inefficiency in the economy, as central planning and a lack of competition can result in a lack of innovation and productivity.</li> <li>● Lack of individual incentives: In socialism, there is less of an emphasis on individual profit and success, which can discourage people from working hard and being innovative.</li> <li>● Limited personal freedoms: Socialism often involves a greater degree of government control and regulation, which can restrict personal freedoms and individual choice.</li> <li>● Lack of innovation: In a socialist system, the government often plays a large role in deciding which goods and services are produced and how they are distributed. This can limit the potential for innovation and the development of new ideas.</li> </ul>

regulation and intervention to stabilize the economy and protect against the worst effects of economic downturns.	
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## Capitalist Countries with Minimal Data Analysis

- 1. United States:** The United States has a market-based economy that is characterized by high levels of private ownership, relatively low levels of regulation, and relatively low levels of taxation compared to other developed countries. The U.S. economy is the largest in the world, with a GDP of over \$21 trillion.
- 2. Japan:** Japan has a highly developed, market-based economy with a strong emphasis on exports. It has a high level of technological development and a highly skilled workforce. Japan's economy is the third largest in the world, with a GDP of over \$5 trillion.
- 3. Germany:** Germany has a strong, export-oriented economy with a highly skilled workforce and a high level of technological development. It has a large and well-developed manufacturing sector and a strong services sector. Germany's economy is the fourth largest in the world, with a GDP of over \$4 trillion.
- 4. United Kingdom:** The United Kingdom has a market-based economy with a strong services sector and a significant manufacturing industry. It is a member of the European Union and has a GDP of over \$2.8 trillion.
- 5. France:** France has a mixed economy with a strong emphasis on manufacturing and a large services sector. It is a member of the European Union and has a GDP of over \$2.7 trillion.
- 6. Canada:** Canada has a market-based economy with a strong emphasis on natural resources and a significant manufacturing industry. It has a GDP of over \$1.8 trillion.
- 7. Australia:** Australia has a market-based economy with a strong emphasis on natural resources, including mining and agriculture. It has a GDP of over \$1.4 trillion.

# Socialist Countries with Minimal Data Analysis

- 1. Cuba:** Cuba has a socialist planned economy that is based on the principles of central planning and state ownership of the means of production. The government controls the major industries and the distribution of goods and services. Cuba has a GDP of around \$100 billion and a per capita GDP of around \$10,000.
- 2. North Korea:** North Korea has a socialist planned economy that is based on the principles of central planning and state ownership of the means of production. The government controls the major industries and the distribution of goods and services. North Korea has a GDP of around \$40 billion and a per capita GDP of around \$1,800.
- 3. Vietnam:** Vietnam has a socialist-oriented market economy that combines elements of a planned economy with elements of a market economy. The government controls key sectors of the economy, such as energy and heavy industry, but the private sector is allowed to operate in other areas. Vietnam has a GDP of around \$300 billion and a per capita GDP of around \$5,000.
- 4. Laos:** Laos has a socialist-oriented market economy that combines elements of a planned economy with elements of a market economy. The government controls key sectors of the economy, such as energy and heavy industry, but the private sector is allowed to operate in other areas. Laos has a GDP of around \$20 billion and a per capita GDP of around \$2,500.
- 5. China:** China has a mixed economy that combines elements of a market-based economy with elements of a planned economy. It has a large state sector and a rapidly growing private sector. China's economy is the second largest in the world, with a GDP of over \$14 trillion and a per capita GDP of around \$10,000.
- 6. Russia** has a mixed economy that combines elements of a market-based economy with elements of a planned economy. Russia has a GDP of around \$1.7 trillion and a per capita GDP of around \$12,000. The country is a major exporter of oil, natural gas, and other natural resources, and it also has a significant manufacturing sector. However, the Russian economy has faced challenges in recent years, including low oil prices, economic sanctions, and a weak currency.

# Modern Era

In the modern era, capitalism and socialism have both continued to evolve and have been implemented in various countries around the world. Many countries have mixed economies that incorporate elements of both systems, while others have more fully socialist or capitalist systems.

One of the key debates surrounding capitalism and socialism in the modern era is the role of the state in regulating the economy. Proponents of capitalism argue that minimal government intervention allows for greater innovation and efficiency, while critics argue that it can lead to inequality and exploitation. Proponents of socialism argue that a greater role for the state in regulating the economy can help to reduce inequality and provide for the basic needs of the population, while critics argue that it can lead to inefficiency and lack of innovation.

In the modern era, the global economic system has become increasingly interconnected, with countries around the world trading goods and services with one another. This has led to the rise of multinational corporations that operate across national borders, and has fueled the growth of globalization. Some argue that globalization has increased economic growth and prosperity, while others argue that it has led to a widening gap between the rich and the poor and has contributed to environmental degradation.

In recent years, there has been a resurgence of interest in socialist ideas, particularly among younger generations. This has been fueled in part by concerns about income inequality, environmental degradation, and the negative impacts of globalization. At the same time, capitalism remains the dominant economic system in the world, and many countries continue to embrace free market principles and private enterprise.

## Economic System and Condition of Pakistan

The economic system of Pakistan is a mixed economy, which means that it combines elements of both capitalism and socialism. Pakistan has a market-based economy in which prices are determined by supply and demand, and private enterprise is allowed. However, the government also plays a role in regulating the economy and providing certain public goods and services.

Pakistan's economic system has evolved over time. In the early years of independence, Pakistan adopted a more socialist approach, with the government owning and controlling key industries such as banking, telecommunications, and transportation. However, in the 1980s and 1990s, the country underwent a process of liberalization and privatization, in which many state-owned enterprises were sold off to private investors. This shift towards a more capitalist economic system has resulted in increased economic growth and development, but it has also led to some income inequality and a widening gap between the rich and the poor.



Agriculture is a major contributor to Pakistan's economy, accounting for around 22% of GDP. The country is a major producer of cotton, wheat, rice, sugarcane, and other crops. In addition to crops, Pakistan is also a major producer of livestock, including cattle, sheep, and goats. The agricultural sector employs a large percentage of the country's workforce and is a vital source of income for many rural households.

The industry is another important sector of the economy, with a contribution of around 24% to GDP. Pakistan has a large textile industry, which accounts for a significant portion of the country's exports. The country is also a major producer of cement, steel, and other industrial goods. The industrial sector is concentrated in urban areas and employs a relatively small percentage of the workforce.

The services sector, including tourism, finance, and telecommunications, accounts for around 54% of the GDP. The service sector has grown significantly in recent years and is a major contributor to the economy. The sector is primarily concentrated in urban areas and employs a large percentage of the workforce.

Pakistan has a GDP of around \$280 billion and a per capita GDP of around \$1,600. The country has a large trade deficit and a high public debt. In recent years, Pakistan has undertaken a number of economic reforms in an effort to improve its economic performance and attract foreign investment. These reforms have included liberalizing trade, reducing regulations, and increasing access to credit.

One of the major challenges facing Pakistan's economy is poverty. According to the World Bank, around 30% of the country's population lives below the poverty line. Poverty is particularly prevalent in rural areas, where a large percentage of the population relies on agriculture for their livelihood. In addition to poverty, Pakistan also faces high levels of unemployment, particularly among young people.

Inflation is another major challenge facing the country's economy. Inflation has been a persistent problem in Pakistan in recent years, driven in part by high food and energy prices. The high levels of inflation have put pressure on the government to implement economic reforms and increase productivity.

Pakistan's economic growth has been relatively slow in recent years, due in part to a number of internal and external factors. The country has faced a number of natural disasters, including floods and earthquakes, which have disrupted economic activity. In addition, the country has been affected by political instability and security challenges, which have deterred foreign investment.

# Suggested Economic System for Pakistan

It's important to note that the economic system that a country chooses to adopt is dependent on a variety of factors, including its political, social, and economic circumstances. There is no one-size-fits-all solution that is suitable for all countries.

That being said, Pakistan's economy is characterized by a mix of public and private ownership, with the government playing a significant role in the economy. The country has a large agricultural sector and a growing industrial sector, with a significant contribution from the service sector.

To improve its economic condition, Pakistan could consider implementing economic reforms that focus on increasing productivity, promoting entrepreneurship, and attracting foreign investment. This could involve liberalizing trade, reducing regulations, and increasing access to credit. The government could also focus on improving infrastructure, including the construction of new roads, bridges, and ports, which would help to increase economic activity and facilitate the movement of goods and services.

In addition, Pakistan could consider investing in human capital by improving education and healthcare. This would help to increase the country's overall productivity and competitiveness.

Ultimately, the decision of which economic system to adopt depends on the specific needs and circumstances of a country. It is important for Pakistan to carefully consider its options and choose the system that best fits its needs and goals.

## Summary of the Two Systems

	Capitalism	Socialism
Key Elements	Laissez-faire economics, individualism, profit motive	Collective ownership, equality, social welfare
Ideas	Classical liberalism, libertarianism	Marxism, socialism
Political System	Representative democracy	Representative democracy, dictatorship of the proletariat
Key Proponents	Adam Smith, John Locke	Karl Marx, Friedrich Engels
Social Structure	Market-based	Classless society
Religion	Christianity, Judaism, Islam	atheism, agnosticism
Philosophy	Classical liberalism, libertarianism	Marxism, socialism

<b>Economic System</b>	Market economy	Planned economy
<b>Definition</b>	System based on private ownership of the means of production and the creation of goods and services for profit	System based on public or collective ownership of the means of production, with the goal of redistributing wealth and resources for the benefit of all members of society
<b>Discrimination</b>	Economic inequality	Economic inequality
<b>Economic Coordination</b>	Market forces	Central planning
<b>Free Choice</b>	Individual choice	Limited, based on the needs of society
<b>Political Movements</b>	Liberalism, conservatism	Socialism, communism
<b>Ownership Structure</b>	Private ownership	Collective ownership
<b>Private Property</b>	Allowed	Limited or abolished
<b>Examples</b>	United States, United Kingdom, Canada	Soviet Union, China, Cuba
<b>View on War</b>	Justifiable in self-defense	Justifiable in self-defense
<b>Variations</b>	Neoliberalism, crony capitalism	Democratic socialism, market socialism
<b>Way of Change</b>	Reform, revolution	Reform, revolution
<b>Means of Control</b>	Government regulation, market forces	Government control, worker control
<b>Earliest Remnants</b>	16th century Europe	19th century Europe
<b>View of the World</b>	The world is a competitive place where individuals and businesses should be free to succeed or fail based on their own merit	The world is fundamentally unfair and can only be made fair through the collective ownership and control of the means of production and the elimination of class distinctions.

## Conclusion

In this report, the differences between capitalism and socialism are explored, including their histories and the various types that have emerged. Capitalism is a system characterized by private ownership of the means of production and the pursuit of profit, while socialism advocates for collective ownership of the means of production with the goal of creating a more equitable society. The essay also discusses the current economic system of Pakistan and how it compares to capitalism and socialism.

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