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THE NOBEL PRIZE

Handout

2021



Featuring:

- ❖ History of Nobel Prize
- ❖ Prize Money
- ❖ Indian Nobel Laureate
- ❖ 2021 Nobel Winners
- ❖ FAQs on Nobel Prize
- ❖ Interesting Facts Behind
- ❖ Infographics

Nobel Prize

The Nobel Prize is a set of annual international awards bestowed in several categories by Swedish and Norwegian institutions in recognition of academic, cultural, or scientific advances. The will of the Swedish chemist, engineer and industrialist Alfred Nobel established the five Nobel prizes in 1895. The prizes in Chemistry, Literature, Peace, Physics, and Physiology or Medicine were first awarded in 1901. In 1968, Sweden's central bank Sveriges Riksbank established the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel.

Note 1: The prize is not awarded posthumously; however, if a person is awarded a prize and dies before receiving it, the prize may still be presented.

Note 2: Prize may not be shared among more than three individuals, although the Nobel Peace Prize can be awarded to organizations of more than three people.

- **Awarded for:** Outstanding contributions for humanity in chemistry, literature, peace, physics, physiology or medicine, and economic sciences
- **Country:** Sweden (all prizes except the Peace Prize), Norway (Peace Prize only)
- **Presented by:** Nobel Assembly at the Karolinska Institute (Physiology or Medicine), Norwegian Nobel Committee (Peace), Royal Swedish Academy of Sciences (Chemistry, Economic Sciences, Physics), Swedish Academy (Literature)
- **Reward(s):** Prize money of 10 million Sweden Krona, a medal and a diploma

Years without Nobel Prizes

Since the start, in 1901, there are some years when the Nobel Prizes have not been awarded. The total number of times are 49.

- **Physics:** 1916, 1931, 1934, 1940, 1941, 1942
- **Chemistry:** 1916, 1917, 1919, 1924, 1933, 1940, 1941, 1942
- **Medicine:** 1915, 1916, 1917, 1918, 1921, 1925, 1940, 1941, 1942
- **Literature:** 1914, 1918, 1935, 1940, 1941, 1942, 1943
- **Peace:** 1914, 1915, 1916, 1918, 1923, 1924, 1928, 1932, 1939, 1940, 1941, 1942, 1943, 1948, 1955, 1956, 1966, 1967, 1972

The youngest Nobel Laureates

Category	Name	Year	Age
Peace	Malala Yousafzai	2014	17
Physics	William Lawrence Bragg	1915	25
Physiology or Medicine	Frederick Banting	1923	32
Chemistry	Frédéric Joliot	1935	35
Literature	Rudyard Kipling	1907	41
Economic Sciences	Kenneth J. Arrow	1972	51



The oldest Nobel Laureates

Category	Name	Year	Age
Chemistry	John B Goodenough	2019	97
Physics	Arthur Ashkin	2018	96
Economic Sciences	Leonid Hurwicz	2007	90
Literature	Doris Lessing	2007	88
Physiology or Medicine	Peyton Rous	1966	87
Peace	Joseph Rotblat	1995	87

Laureates Who received prize more than Once

Name	Category	Year
Marie Curie	Physics	1903
	Chemistry	1911
Linus Pauling	Chemistry	1954
	Peace	1962
John Bardeen	Physics	1956
	Physics	1972
Frederick Sanger	Chemistry	1958
	Chemistry	1980

Family Nobel Laureates

The Curies were a very successful 'Nobel Prize family'. Marie Curie herself was awarded two Nobel Prizes.

Married couples		
Marie Curie Pierre Curie	Irène Joliot-Curie Frédéric Joliot	Gerty Cori Carl Cori
May-Britt Moser Edvard I. Moser	Alva Myrdal Gunnar Myrdal	Abhijit Banerjee Esther Duflo
Mother & daughter		
Marie Curie Irène Joliot-Curie		
Father & daughter		
Pierre Curie Irène Joliot-Curie		
Father & son		
William Bragg Lawrence Bragg	Niels Bohr Aage N. Bohr	Hans von Euler-Chelpin Ulf von Euler
Arthur Kornberg Roger D. Kornberg	Manne Siegbahn Kai M. Siegbahn	J. J. Thomson George Paget Thomson
Brothers		
Jan Tinbergen Nikolaas Tinbergen		

Prize Money

The winners of the 2021 Nobel Prizes will receive a gold medal and 10 million Swedish kronor (\$1.14 million). The prize money comes from an endowment left behind by the prize's creator, Swedish inventor Alfred Nobel, who died in 1895.

Q. Why are the individuals and organisations awarded a Nobel Prize called Nobel Laureates?

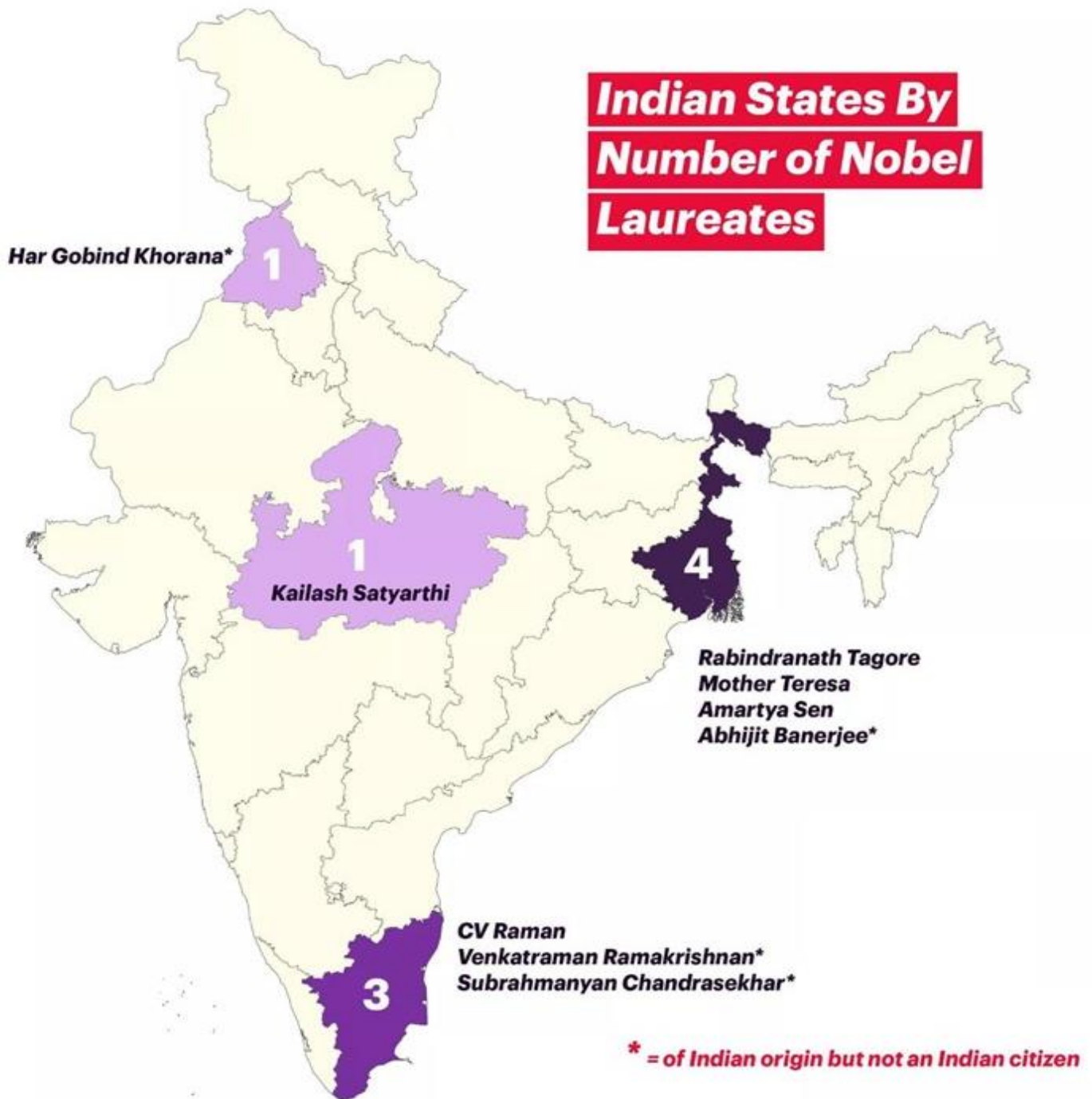
A: The word "Laureate" refers to being signified by the laurel wreath. In Greek mythology, the god Apollo is represented wearing a laurel wreath on his head.

Nobel Laureates who declined ever

Jean-Paul Sartre, awarded the 1964 Nobel Prize in Literature, declined the prize because he had consistently declined all official honours.

Le Duc Tho, awarded the 1973 Nobel Peace Prize jointly with US Secretary of State Henry Kissinger. They were awarded the Prize for negotiating the Vietnam peace accord. Le Duc Tho said that he was not in a position to accept the Nobel Peace Prize, citing the situation in Vietnam as his reason.





2021 Nobel Prize Winners

Nobel Peace Prize



Awarded to: Maria Ressa and Dmitry Muratov

For: For their courageous fight for freedom of expression in the Philippines and Russia.

Nobel Literature Prize



Awarded to: Abdulrazak Gurnah

For: For his uncompromising and compassionate penetration of the effects of colonialism and the fate of the refugee in the gulf between cultures and continents.

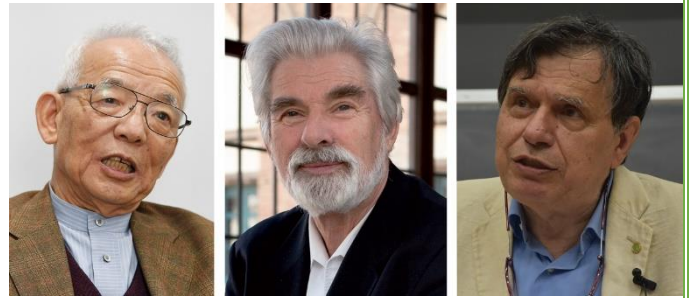
Nobel Chemistry Prize



Awarded to: Benjamin List and David W.C. MacMillan

For: For their development of a precise new tool for molecular construction: organocatalysis.

Nobel Physics Prize



Awarded to: Syukuro Manabe, Klaus Hasselmann and Giorgio Parisi

For: For the physical modelling of Earth's climate, quantifying variability and reliably predicting global warming & for the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scales.

Nobel Prize in Medicine



Awarded to: David Julius and Ardem Patapoutian

For: For their discoveries of receptors for temperature and touch.

Nobel Prize in Economics



Awarded to: David Card, Joshua Angrist and Guido Imbens

For: For empirical contributions to labour economics & for their methodological contributions to the analysis of causal relationships.



FAQs on Nobel Prize

1. Which of the following statement regarding Nobel Prize holds untrue.
- (A) Nobel prize is awarded posthumously.
 (B) If a person is awarded a prize and dies before receiving it, the prize may still be presented.
 (C) Nobel Prize may not be shared among more than three individuals
 (A) Only A (B) Only B
 (C) Only C (D) Both A and B
 (E) None of the above

Ans.(A)

2. Match the following pairs regarding Nobel laureates who were born in India or were residents in India when they became recipients of the Nobel Prize but were not Indians citizens.

List I	List II
(A) Ronald Ross	(1) Medicine/1902
(B) Rudyard Kipling	(2) Literature/1907
(C) 14th Dalai Lama	(3) Peace/1989

	A	B	C
(A)	1	2	3
(B)	2	3	1
(C)	3	1	2
(D)	2	1	3
(E)	3	2	1

Ans.(A)

3. Match the following pairs regarding Nobel laureates, who were born as Indian citizens but were citizens of another country when they were awarded the prize.

List I	List II
(A) Har Gobind Khorana	(1) Medicine/1968
(B) Subrahmanyam Chandrasekhar	(2) Physics/1983
(C) Venki Ramakrishnan	(3) Chemistry/2009
(D) Abhijit Banerjee	(4) Economics/2019

	A	B	C	D
(A)	1	2	3	4
(B)	2	3	4	1
(C)	3	4	1	2
(D)	4	1	2	3
(E)	1	4	2	3

Ans.(A)

4. Match the following pairs regarding Indian Nobel Laureates.

List I	List II
(A) Mother Teresa	(1) Peace/1979
(B) Amartya Sen	(2) Economics/1998
(C) Kailash Satyarthi	(3) Peace/2014
(D) Rajendra K. Pachauri	(4) Peace/2007

	A	B	C	D
(A)	1	2	3	4
(B)	2	3	4	1
(C)	3	4	1	2
(D)	4	1	2	3
(E)	1	4	2	3

Ans. (A)

5. Match the Following pairs.

List I	List II
(A) Nobel Assembly at the Karolinska Institute	(1) Physiology or Medicine
(B) Norwegian Nobel Committee	(2) Peace
(C) Royal Swedish Academy of Sciences	(3) Chemistry, Economic Sciences, Physics
(D) Swedish Academy	(4) Literature

	A	B	C	D
(A)	1	2	3	4
(B)	2	3	4	1
(C)	3	4	1	2
(D)	4	1	2	3
(E)	1	4	2	3

Ans.(A)

6. Match the Following pairs regarding Youngest Nobel Laureates.

List I	List II
(A) Peace	(1) Malala Yousafzai
(B) Physics	(2) William Lawrence Bragg
(C) Physiology or Medicine	(3) Frederick Banting

	A	B	C
(A)	1	2	3
(B)	2	3	1



- (C) 3 1 2
 (D) 2 1 3
 (E) 3 2 1

Ans.(A)

7. Match the Following pairs regarding Youngest Nobel Laureates.

List I	List II
(A) Chemistry	(1) Frédéric Joliot
(B) Literature	(2) Rudyard Kipling
(C) Economic Sciences	(3) Kenneth J. Arrow

- A B C
 (A) 1 2 3
 (B) 2 3 1
 (C) 3 1 2
 (D) 2 1 3
 (E) 3 2 1

Ans.(A)

8. Match the Following pairs regarding Oldest Nobel Laureates.

List I	List II
(A) Chemistry	(1) John B Goodenough
(B) Physics	(2) Arthur Ashkin
(C) Economic Sciences	(3) Leonid Hurwicz

- A B C
 (A) 1 2 3
 (B) 2 3 1
 (C) 3 1 2
 (D) 2 1 3
 (E) 3 2 1

Ans.(A)

9. Match the Following pairs regarding Oldest Nobel Laureates.

List I	List II
(A) Literature	(1) Doris Lessing
(B) Physiology or Medicine	(2) Peyton Rous
(C) Peace	(3) Joseph Rotblat

- A B C
 (A) 1 2 3
 (B) 2 3 1
 (C) 3 1 2
 (D) 2 1 3
 (E) 3 2 1

Ans.(A)

10. The Nobel Prize is a set of annual international awards bestowed in several categories by which country?

- (A) Sweden (B) Norway
 (C) Denmark (D) A & B
 (E) B & C

Ans.(D)

11. In how many fields the Swedish chemist, engineer and industrialist Alfred Nobel established Nobel Prizes in 1895?

- (A) 5 (B) 4 (C) 3
 (D) 2 (E) 1

Ans.(A)

12. In which year for the first time, the Nobel Prize in Economic Sciences were given in Memory of Alfred Nobel?

- (A) 1970 (B) 1969 (C) 1968
 (D) 1967 (E) 1965

Ans.(C)

13. How much prize money is associated with each category of Nobel Prize?

- (A) 5 million Sweden Krona
 (B) 9 million Sweden Krona
 (C) 10 million Sweden Krona
 (D) 12 million Sweden Krona
 (E) 15 million Sweden Krona

Ans.(C)

14. Since its inception in 1901, there are some years in which the Nobel Prizes have not been awarded. Till now how many times it was done so?

- (A) 46 times (B) 47 times
 (C) 48 times (D) 49 times
 (E) 50 times

Ans.(D)

15. Name the youngest Nobel laureate who has received Nobel Prize?

- (A) Malala Yousafzai
 (B) William Lawrence Bragg
 (C) Frederick Banting
 (D) Rudyard Kipling
 (E) Kenneth J. Arrow

Ans.(A)

16. Name the oldest Nobel laureate who has received Nobel Prize?

- (A) Peyton Rous
 (B) Doris Lessing
 (C) Leonid Hurwicz
 (D) Arthur Ashkin
 (E) John B Goodenough









Ans.(E)



17. Name the Category in which Madam Curie won the Nobel Prize Twice?
 (A) Medicine
 (B) Physics & Chemistry
 (C) Economics & Literature
 (D) Physics & Peace
 (E) Economics
Ans.(B)
18. Name the Category in which Linus Pauling won the Nobel Prize Twice?
 (A) Peace & Economics
 (B) Physics & Chemistry
 (C) Medicine
 (D) Chemistry & Peace
 (E) Economics
Ans.(D)
19. Name the Category in which John Bardeen won the Nobel Prize Twice?
 (A) Physics (B) Chemistry
 (C) Economics (D) Medicine
 (E) Literature
Ans.(A)
20. Name the Category in which Frederick Sanger won the Nobel Prize Twice?
 (A) Physics (B) Chemistry
 (C) Economics (D) Medicine
 (E) Literature
Ans.(B)
21. Name the Nobel Laureats who declined the prize citing personal reasons?
 (A) Jean-Paul Sartre (B) Corazon Aquino
 (C) Le Duc Tho (D) A & B
 (E) A & C
Ans.(E)
22. Which of the following Nobel Prize is not presented by Sweden?
 (A) Chemistry (B) Literature
 (C) Physics (D) Medicine
 (E) Peace
Ans.(E)
23. Which of the following Nobel Prize is presented by Norway?
 (A) Chemistry (B) Peace
 (C) Physics (D) Medicine
 (E) Literature
Ans.(B)

24. Which of the following Nobel Laureate did not received The Nobel Prize twice?
 (A) Marie Curie
 (B) Linus Pauling
 (C) John Bardeen
 (D) Frederick Sanger
 (E) J. J. Thomson
Ans.(E)
25. The Nobel Peace Prize is one of the five Nobel Prizes established by the will of Swedish industrialist, inventor, and armaments manufacturer Alfred Nobel. Which of the following organisation bagged the most no. of Peace Awards?
 (A) International Committee of the Red Cross
 (B) World Food Programme (WFP)
 (C) World Bank
 (D) Food and Agriculture Organisation
 (E) International Fund for Agricultural Development (IFAD)
Ans.(A)

NOBEL PRIZE WINNERS FROM INDIA
 (includes people of Indian origin)

 RABINDRANATH TAGORE Nobel Prize in Literature 1913	 C V RAMAN Nobel Prize in Physics 1930
 HAR GOBIND KHORANA Nobel Prize in Medicine <small>*US citizen of Indian origin</small> 1968	 MOTHER TERESA Nobel Peace Prize <small>*Indian citizen of Albanian origin</small> 1979
 SUBRAHMANYAN CHANDRASEKHAR Nobel Prize in Physics <small>*US citizen of Indian origin</small> 1983	 AMARTYA SEN Nobel Prize in Economics 1998
 VENKATRAMAN RAMAKRISHNAN Nobel Prize in Chemistry <small>*US citizen of Indian origin</small> 2009	 KAILASH SATYARTHI Nobel Peace Prize 2014

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Interesting Facts About Nobel Prize (1901 – 2021)

- ❖ A total of 597 Nobel Prizes have been given to 950 Nobel Laureates from 1901 to 2019.
- ❖ Malala Yousafzai is the youngest Nobel laureate to receive the Peace Prize in 2014 at the age of just 17.
- ❖ The average age of all Nobel laureates in all award categories between 1901 and 2017 is 60 years.
- ❖ Alfred Nobel left most of his assets, over SEK 31 million (about SEK 1,702 million today) to be converted into a fund and invested in “safe securities”.
- ❖ John B. Goodenough is the oldest recipient of this award in Chemistry 2019 at the age of 97.
- ❖ John Bardeen is the only Nobel laureate to have been awarded the Nobel Prize in Physics twice, in 1956 and 1972.
- ❖ Marie Curie is the only woman to have been awarded the Nobel Prize in Physics twice, in 1903 and the Nobel Prize in Chemistry in 1911.
- ❖ Between 1901 and 2019, the Nobel Prize in Physics has been awarded 113 times to 213 Nobel laureates.
- ❖ The Nobel Prize in Chemistry has been awarded 111 times to 184 Nobel laureates between 1901 and 2019.
- ❖ Altogether only 54 women have been awarded the Nobel Prize between 1901 and 2019.
- ❖ The Nobel Prize in Physiology or Medicine has been awarded 110 times to 219 Nobel laureates between 1901 and 2019.
- ❖ Frederick Sanger is the only Nobel laureate to have been awarded the Nobel Prize in Chemistry twice, in 1958 and 1980. This means that a total of 180 persons have received the Nobel Prize in Chemistry.
- ❖ Between 1901 and 2017 the Nobel Prize in Literature has been awarded 112 times to 116 Nobel Laureates.
- ❖ The Nobel Prize in Economic Sciences has been awarded 51 times between 1969 and 2019 to 84 laureates.
- ❖ The Peace Prize is the only award that is not presented in Stockholm. The award is presented annually in Oslo in the presence of the King of Norway on 10 December, the death anniversary of Alfred Nobel.
- ❖ The first Nobel Peace Prize was awarded in 1901 to Henri Dunant (Switzerland) and Frédéric Passy (France).
- ❖ It is known that till now 9 Indians/People of Indian Origin have received Nobel Prize and the first Indian to receive Nobel Prize was Rabindra Nath Tagore.
- ❖ Between 1901 and 2019, the Nobel Peace Prize has been awarded 100 times to 134 Nobel Laureates including 27 organisations and 107 individuals.

Nobel FACTS Prize

Categories for Nobel Prize



Infographics

NOBEL PRIZE

Six award categories

The Nobel Prize **recognises the highest achievement** in various subjects. Winners receive a **gold medal together with roughly \$1.14m**.

Number of prizes awarded

1901-2020

Laureates may include individuals, groups or organisations

112
Chemistry
prizes awarded
to 186 laureates

Nobel medal
18 carat gold
175 - 185g
6.6cm diameter

114
Physics
prizes awarded
to 216 laureates

52
Economic sciences
prizes awarded
to 86 laureates

111
Medicine
prizes awarded
to 222 laureates

113
Literature
prizes awarded
to 117 laureates

101
Peace
prizes awarded
to 135 laureates

1833-96
Birth and death
years of Alfred
Nobel in Latin

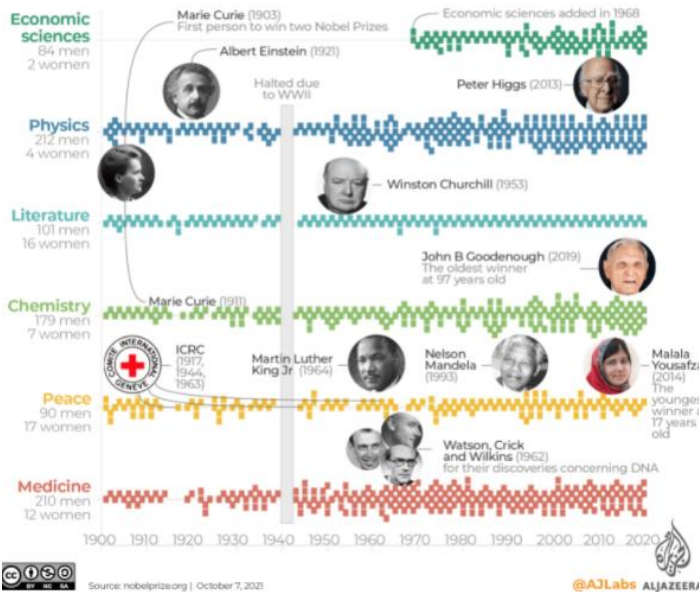


Source: nobelprize.org | October 7, 2021

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Prize winners 1901-2020

Between 1901 and 2020, **603 Nobel Prizes** were awarded to **962 laureates**.



NOBEL PRIZE

Winners by continent

The Nobel Prize is one of the **world's most coveted awards** but has historically favoured Western nations. Just **over half of all laureates are from Europe**.

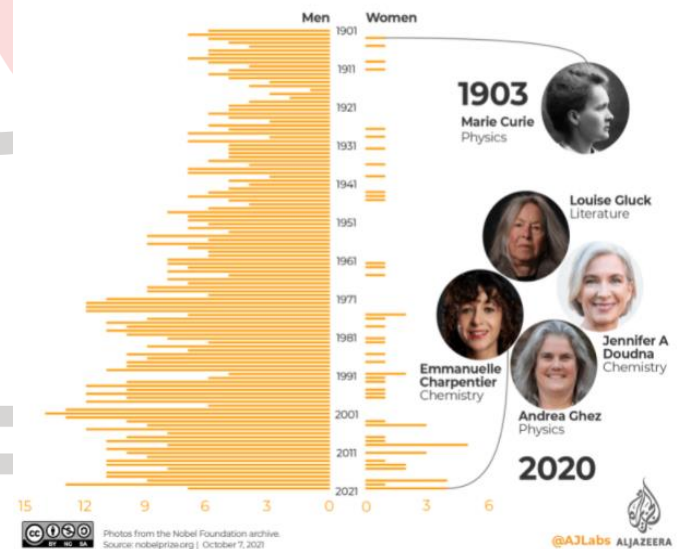
Nobel laureates by country of birth
1901-2020



NOBEL PRIZE

Huge gender gap

Over **90 percent of Nobel Prize winners** were men. In 2020, **four out of the 11 laureates** were women.



Infographics Credits: Aljazeera



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NOBEL PRIZE WINNERS 2021



DAVID
JULIUS



ARDEM
PATAPOUTIAN

PHYSIOLOGY OR MEDICINE



SYUKURO
MANABE



KLAUS
HASSELMANN



GIORGIO
PARISI

PHYSICS



BENJAMIN
LIST



DAVID W.C.
MACMILLAN

CHEMISTRY



ABDULRAZAK
GURNAH

LITERATURE

PEACE



MARIA
RESSA



DMITRY
MURATOV



DAVID
CARD



JOSHUA
ANGRIST



GUIDO
IMBENS

ECONOMIC SCIENCE

