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SCIENCE

What Is Physics ??

Physics is the scientific study of matter and energy and how they interact with each other. This energy can take the form of motion, light, electricity, radiation, gravity . . . just about anything, honestly. Physics deals with matter on scales ranging from sub-atomic particles (i.e. the particles that make up the atom and the particles that make up those particles) to stars and even entire galaxies.

How Physics Works

As an *experimental* science, physics utilizes the scientific method to formulate and test hypotheses that are based on observation of the natural world. The goal of physics is to use the results of these experiments to formulate scientific laws, usually expressed in the language of mathematics, which can then be used to predict other phenomena.

The Role of Physics in Science

In a broader sense, physics can be seen as the most fundamental of the natural sciences. Chemistry, for example, can be viewed as a complex application of physics, as it focuses on the interaction of energy and matter in chemical systems. We also know that biology is, at its heart, an application of chemical properties in living things, which means that it is also, ultimately, ruled by the physical laws.

Major Branches of Physics

Acoustics-It is the study of production and properties of sound

Atomic Physics-It is the study of structure and properties of an atom

Biophysics-It applies tools of physics to life processes

Cryogenics-It is the study of low-temperature

Electrodynamics-It is the analysis of relationship between electrostatic and magnetic fields.

Fluid Physics-It deals with movement of liquid and gases

Mechanics-It deals with behavior of object and system to various forces

Nuclear/Modern Physics-It is concerned with structure and properties of atomic nucleus and their reactions.

Energy will dissipate from an area of higher energy to one of lower energy without the input of additional energy.

This law governs all energy flow, especially observable in the cases of thermal and electrical energy flow. Heat moves from the hot tea to the relatively cold mug and surrounding air. Electrons tend to spread until an even charge is obtained throughout the entire system. This can also be directly observed with a drop of dye added to a glass of water. The color will dissipate until the entire solution is a uniform color.

Basic Terms of Physics.

Acceleration

The rate of change of velocity with respect to time. It is calculated by subtracting the initial or starting velocity from the final velocity and dividing the difference by the time required to reach that velocity. It may be expressed by the formula $a = \frac{v(f) - v(o)}{t}$.

Achromatic

An optical system that will transmit light without breaking it down into its component colors.

Acoustics

The science of the production, transmission, and effect of sound waves.

Adiabatic

Pertaining to any activity that is not accompanied by a gain or loss of heat.

Anode

The positive terminal of an electrical current flow. In a vacuum tube, electrons flow from a cathode toward the anode.

Bohr theory

A commonly accepted concept of the atom introduced by Niels Bohr in 1913. It holds that each atom consists of a small, dense, positively charged nucleus surrounded by negatively charged electrons that move in fixed, defined orbits about the nucleus, the total number of electrons normally balancing the total positive charge of particles in the nucleus.

Boyle's law

The principle that the volume of a gas times its pressure is constant at a fixed temperature.

Cathode

The negative terminal of an electric current system. In a vacuum tube, the filament serves as the cathode or source of electrons that are emitted.

Centripetal force

The centrally-directed force exerted on a body moving in a curved direction. The root of this force is the body's impulse to travel in a straight line but that tendency being impeded by the force causing it to curve. e.g. a string exerts centripetal force on a spinning pail to keep it going in a complete circle

Conduction

The transfer of heat by molecular motion from a source of high temperature to a region of lower temperature, tending toward a result of equalized temperatures.

Convection

The mechanical transfer of heated molecules of a gas or liquid from a source to another area, as when a room is warmed by the movement of air molecules heated by a radiator.

Coulomb's law

The principle that an electrostatic force of attraction or repulsion between electrical charges is directly proportional to the product of the electrical charges and inversely proportional to the square of the distance between them.

Doppler Effect

the distortion of the reception of a point source due to either a moving source, moving receiver, or both.

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Density

a material's mass divided by its volume.

Displacement

the straight-line distance from a moving object's original position to its final position.

Dynamics

the branch of mechanics dealing with the motions of material bodies under the action of given forces

Electromotive force

The force that causes the movement of electrons through an electrical circuit.

Energy

The ability to perform work. Energy may be changed from one form to another, as from heat into light, but it normally cannot be created or destroyed.

Fluid

that can flow; not solid; able to move and change shape without separating when under pressure

Force

The influence on a body that causes it to accelerate, as expressed by the formula $F = ma$.

Frequency

the number of oscillations or waves of an active repetitive motion in one second

Friction

The force of resistance between two surfaces when the two surfaces are in contact with each other.

Gravity

The force in the universe that attracts matter.

Heat

A form of energy that results from the disordered motion of molecules. As the motion becomes more rapid and disordered, the amount of heat is increased.

Heisenberg's Uncertainty Principle

First stated by German physicist Werner Heisenberg, the idea that the exact position and momentum of a particle cannot be precisely determined at the same time. Only the probability of its location at a certain time can be predicted.

Intensity

the property of a form of energy associated with its amplitude. With sound, intensity is usually referred to as loudness.

kinetic energy

Energy that is associated with the motion of an object as expressed by the formula $KE = \frac{1}{2}mv^2$.

Mass

Simply, the amount of matter in an object. Mass has two primary manifestations: gravitationally and inertially

Mechanics

A branch of physics that deals with the motion of objects.

Momentum

The mathematical product of the mass of a moving object and its velocity, as expressed by the formula $p = mv$.

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Orbit

The path taken by a heavenly body during its periodic revolution around another body

Phenomenon

pl. phenomena any fact, circumstance, or experience that is apparent to the senses and that can be scientifically appraised or defined

Physics

The science dealing with the properties, changes, interactions, etc. of matter, and energy in which energy is considered to be continuous (classical) or discrete (quantum)

Potential energy

Energy that is stored because of position or configuration, such as the gravitational energy of a weight that is positioned on the roof of a building.

Power

The rate at which work is performed, as expressed by the formula $P = W/t$.

Pressure

force exerted against an opposing body; thrust distributed over a surface; expressed in units of force per units of area

Relativity

Einstein's observation that the pull of gravity and forces of acceleration cannot be distinguished from one another. One consequence is that the laws of physics must be studied in isolated frames of reference.

Satellite

basically, a small object revolving around a much larger one. The moon is a satellite of the Earth, and the Earth is one of the sun's satellites.

Sound

longitudinal wave vibrations produced by variations in pressure carried by air or other media which can be perceived by the auditory senses as stimulation.

Velocity

The speed with which an object travels over a specified distance during a measured amount of time. It may be expressed by the formula $v = d/t$.

Venturi Effect

The observable phenomenon of higher velocity fluids producing lower pressure than lower velocity fluids.

Volume

The amount of space occupied in three dimensions, expressed in cubic units

Wavelength

The distance between corresponding parts of a sinusoidal wave.

Weight

The force on a body produced by the downward pull of gravity on it. It may be expressed by the formula $W = mg$, where m represents the mass of the object and g represents the acceleration of gravity. work The force applied to an object times the distance over which it is applied, as expressed by the formula $W = Fd$. Work may be independent of the energy expended.

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Science (from Latin *scientia*, meaning "knowledge") is a systematic enterprise that builds and organizes knowledge in the form of testable explanations and predictions about the universe. In an older and closely related meaning, "science" also refers to a body of knowledge itself, of the type that can be rationally explained and reliably applied. A practitioner of science is known as a scientist.

Physics

It is knowledge of nature", is the natural science that involves the study of matter and its motion through space and time, along with related concepts such as energy and force. More broadly, it is the general analysis of nature, conducted in order to understand how the universe behaves.

Basic concept of physics

The **density** of a substance is its mass per unit volume. The symbol most often used for density is ρ (the lower case Greek letter rho). Mathematically, density is defined as mass divided by volume:

In physics and mathematics, the **dimension** of a space or object is informally defined as the minimum number of coordinates needed to specify any point within it. Thus a line has a dimension of one because only one coordinate is needed to specify a point on it

Time is a dimension in which events can be ordered from the past through the present into the future, and also the measure of durations of events and the intervals between them

In kinematics, **velocity** is the rate of change of the position of an object, equivalent to a specification of its speed and direction of motion. For motion in one dimension, velocity can be defined as the slope of the position vs. time graph of an object. Speed describes only how fast an object is moving, whereas velocity gives both how fast and in what direction the object is moving.^[1] If a car is said to travel at 60 km/h, its speed has been specified. However, if the car is said to move at 60 km/h to the north, its velocity has now been specified

Gravitation, or **gravity**, is a natural phenomenon by which all physical bodies attract each other. It is most commonly experienced as the agent that gives weight to objects with mass and causes them to fall to the ground when dropped.

In physics a **wave** is a disturbance or oscillation that travels through space and matter, accompanied by a transfer of energy. **Wave motion** transfer energy from one point to another, often with no permanent displacement of the particles of the medium—that is, with little or no associated mass transport.

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In physics, a force is said to do **work** when it acts on a body so that there is a displacement of the point of application in the direction of the force. Thus a force does work when it results in movement.

In physics, **power** (symbol: P) is defined as the amount of energy consumed per unit time. In the MKS system, the unit of power is the joule per second (J/s), known as the watt (in honour of James Watt, the eighteenth-century developer of the steam engine). For example, the rate at which a light bulb converts electrical energy into heat and light is measured in watts—the more wattage, the more power, or equivalently the more electrical energy is used per unit time.

Newton's laws of motion are three physical laws that together laid the foundation for classical mechanics. They describe the relationship between a body and the forces acting upon it, and its motion in response to said forces. They have been expressed in several different ways over nearly three centuries, and can be summarized as follows:

1. **First law:** When viewed in an inertial reference frame, an object either is at rest or moves at a constant velocity, unless acted upon by an external force.
2. **Second law:** The acceleration of a body is directly proportional to, and in the same direction as, the net force acting on the body, and inversely proportional to its mass. Thus, $\mathbf{F} = m\mathbf{a}$, where \mathbf{F} is the net force acting on the object, m is the mass of the object and \mathbf{a} is the acceleration of the object.
3. **Third law:** When one body exerts a force on a second body, the second body simultaneously exerts a force equal in magnitude and opposite in direction to that of the first body.

The **speed** of an object is the magnitude of its velocity (the rate of change of its position); it is thus a scalar quantity.^[1] The **average speed** of an object in an interval of time is the distance travelled by the object divided by the duration of the interval.

In physics, **acceleration** is the rate at which the velocity of a body changes with time. In general, velocity and acceleration are vector quantities, with magnitude and direction, though in many cases only magnitude is considered.

In physics, a force is said to do **work** when it acts on a body so that there is a displacement of the point of application in the direction of the force. Thus a force does work when it results in movement.

Work and energy

Work is closely related to energy. The conservation of energy states that the change in total internal energy of a system equals the added heat, minus the work performed by the system.

Heat

In physics and chemistry, especially in thermodynamics, **heat** is energy in transfer between a system and its surroundings other than by work or transfer of matter

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List of Human Disease Caused By Virus & Bacteria

Disease	Causing Agent	Infection / Transmission
AIDS	Human T -cell Leukemia Virus HTLV-III	blood and sperms , thru sexual contact homo or heterosexual)
Ascariasis	Ascaris lumbricoides	raw vegetables infected with eggs
Athletes' Foot	Trichophyton	bad foot hygiene
Bacillary Dysentery	Shigella Dysenterie	flies, food, faeces
Botulism	Clostridium botulinum	food poisoning
Chickenpox	Varicella Virus	contact
Cholera	Varibrio Cholerae	flies, food , faeces, carriers
Common Cold	Rhino Virus	contact
Dengue	Dengue Virus (arbovirus)	Aedes Mosquito
Diarrhea	Giardia intestinalis	contaminated stools
Diphtheria	Corynebacterium diphtheriae (Bacteria)	contact
Filariasis	Wuchereria bancrofti	mosquito, infection in lymph nodes and lymphatic vessels
Gonorrhoea	Diplococcus (Neisseria gonorrhoeae)	sexual intercourse
Herpes	Herps Virus	contact
Hook worm disease	Ancylostoma Duedenale	faisces and walking barefoot.
Influenza Flu	Orthomixovirus	contact
kala azar	Leishmania Donovanii	infected sand fly
Leprosy	Mycobacterium Leprae	Long and close contact
Measles	Measles virus (ParaMyxoVirus)	contact
Mumps	Mumps Virus (Paramyxovirus)	contact, virus in saliva spreads

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Disease	Causing Agent	Infection / Transmission
oriental Sore	<i>Leishmania Tropica</i>	infected sand fly
Pinworm Disease	<i>Enterobius Vermicularis caecum</i>	ingestion of eggs contaminated food
Plague	<i>Yersinia Pestis</i>	Rat Flea
Pneumonia	<i>Diplococcus pneumoniae</i>	bacteria transmission by contact.
Poliomyelitis	<i>Polio Virus or Enterovirus</i>	houseflies, food and water
Rabies	<i>rhabdovirus</i>	mad dog bites
Ringworm	<i>Microsporum Trichophyton</i>	cats and dogs
Septic Sore Throat	<i>Streptococcus Bacteria</i>	contact
Sleeping Sickness	<i>Trypanosoma Brucei</i>	reaches lymph nodes via transmission thru fly bites
Smallpox	<i>Variola Virus</i>	contact
Syphilis	<i>Treponema Palladium</i>	direct contact mainly sex
TB	<i>Mycobacterium tuberculosis</i>	Bacteria transmission by cough
Tetanus	<i>Clostridium tetani</i>	bacteria in soil thru wounds
Typhoid	<i>Salmonella Typhi</i>	Flies, food etc.
Vaginitis	<i>Trichomonas Vaginalis</i>	Female Vaginal tracts, Male Urinary Tract both may be infected during coitus
Viral Encephelitis	<i>arbovirus</i>	mosquito Bite
Whooping cough	<i>Hameophilus Pertussis</i>	coughing and sneezing

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Longest, Tallest, Largest & Highest in The World

Animal, Tallest	Giraffe
Archipelago, Largest	Indonesia
Bird, Fastest	Swift
Bird, Largest	Ostrich
Bird, Smallest	Humming Bird
Bridge, Longest Railway	Huey P. Long Bridge, Louisiana (U.S.A.)
Building, Tallest in the World	Burj, Dubai (UAE)
Canal, Longest Irrigational	The Kalakumsky Canal
Canal, Longest	Suez Canal
Capital, Highest	La Paz (Boliva)
City, Biggest in Area	Mount Isa Australia
City, Largest in Population	Tokyo
City, Costliest	Tokyo
City, Highest	Van Chuan (China)
Continent, Largest	Asia
Continent, Smallest	Australia
Country, Biggest (Area)	Russia
Country, Largest (Population)	China
Country, Largest (Electorate)	India
Creature, Largest	Blue Whale
Delta, Largest	Sunderban (Bangladesh & India)
Desert, Largest (World)	Sahara (Africa)
Desert, Largest (Asia)	Gobi
Dam, Largest	Grand Coulee Dam (U.S.A.)
Dam, Highest	Hoover Dam (U.S.A.)
Diamond, Largest	The Cullinan
Dome, Largest	Astrodome, in Houston (U.S.A.)
Epic, Largest	Mahabharat
Irrigation Scheme, Largest	Lloyd Barrage, Sukkur (Pakistan)
Island, Largest	Greenland
Sea, Largest	Mediterranean sea
Lake, Deepest	Baikal (Siberia)
Lake, Largest (Artificial)	Lake Mead (Boulder Dam)
Lake, Highest	Titicaca (Bolivia)
Lake, Largest (Fresh water)	Superior
Lake, Largest (Salt water)	Caspian
Library, Largest	United State Library of Congress, Washington D.C.
Mountain Peak, Highest	Everest (Nepal)
Mountain Range, Longest	Andes (S. America)
Museum, Largest	British Museum, London

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Ocean, Largest	Pacific
Palace, Biggest	Vatican (Italy)
Park, Largest	Yellow Stone National Park (U.S.A.)
Peninsula, Largest	Arabia
Place, Coldest (Habitated)	Verkhoyank (Siberia)
Place, Dryest	Iquique (In Atacama Desert, Chile)
Place, Hottest	Azizia (Libya, Africa)
Place, Rainiest	Mausinram (Meghalaya, India)
Planet, Biggest	Jupiter
Planet, Brightest	Venus
Planet, Smallest	Mercury
Plateau, Highest	Pamir (Tibet)
Platform, Longest	Kharagpur (India)
Railway, Longest	Trans-Siberian railway
Railway Station, Longest	Grand Central Terminal, Chicago (U.S.A.)
River, Longest	Nile (Africa)
River, Largest	Amazon (S. America)
Sea-bird, Largest	Albatross
Star, Brightest	Sirius
Statue, Tallest	Statue of Motherland, Volgograd (Russia)
Telescope, Largest Radio	New Mexico (U.S.A.)
Tramway, World's first	New York
Tunnel, Longest (Railway)	Tanna (Japan)
Tunnel, Longest (Road)	Mont Blanc Tunnel between France and Italy
Volcano, Highest	Ojos del Salado (Andes, Ecuador)
Volcano, Most Active	Maunaloa (Hawaii-U.S.A.)
Wall, Longest	Great wall of China
Waterfall, Highest	Angel (Venezuela)
Water, Lowest body	Dead Sea
Zoo, Largest	Kruger National Park, South Africa
Rice	China, India, Indonesia, Bangladesh
Wheat	China, India, USA, Russia
Maize	USA, China, Brazil, Mexico
Tea	India, China, Sri Lanka
Cotton	China, USA, India, Pakistan
Rubber	Indonesia, Thailand, Malaysia, India
Coffee	Brazil, Columbia
Cereals Total	China, USA, India, Brazil
Pulses Total	Brazil, India, China

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Writer/Author	Books
1. Pt. Vishnu Sharma	Panchatantra
2. Vishakhadatta	Mudra Rakshas
3. Raskhan	Prem Vatika
4. Panini	Ashtadhyayi
5. Shudrak	Mrichhakatikam
6. Kalidasa	Raghuvansham, Kumarsambhavam, Meghdootam, Abhugyanshakuntalam
7. Vigyaneshwar	Mitakshara
8. Mallanāga Vātsyāyana	Kama Sutra
9. Jeemootwahan	Daybhag
10. Kalhana	Rajtarangini
11. Plini	Natural History
12. Kautilya	Arthashastra
13. Dandi	Avanti Sundari, Dashkumaracharitam
14. Ved Vyas	Bhagwat Gita, Mahabharata
15. Ashwaghosh	Buddha Charitam
16. Jayadev	Geet Govind
17. Bana Bhatt	Kadambari
18. Bhavabhuti	Malti Madhav
19. Amar Singh	Amar Singh
20. Bhartihari	Niti-Shatak, Shringar Shatak, Vairagya Shatak
21. Firdausi	Shahnama
22. Abul Fazal	Ain-i-Akbari, Akabarnama
23. Surdas	Sahityalahri, Sursagar
24. Kabirdas	Bijak, Ramayani, Sabar
25. Gulbadan Beghum	Humanyunama
26. Al-Beruni	Kitab-ul-Hind
27. Malik Mohammed Jayasi	Padmavat
28. Mulk Raj Anand	Coolie, Confession of a lover, Two leaves and a bud
29. Nirad C. Chaudhury	Hinduism, Autobiography of an Unknown Indian, A Passage to England, Culture in the Vanity Bag, Continent of Crime
30. Rabindra Nath Tagore	Chitrangada, Gitanjali, Gora, Chandalika, Visarjana, Hungry Stones
31. Kuldip Nayyar	The Judgment, Distant Neighbours; India,

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	The Critical Years; In Jail, Indai after Nehru, Between the Lines
32. Sumitranandan Pant	Jyotsana, Yugwani, Chidambara
33. Sri Aurobindo Ghosh	Life Divine Essays on Gita
34. Swami Shivanand	Divine Life
35. Amrita Pritam	Death of a City, Kagaz te Canvas, Forty nine Days
36. Munshi PremChand	Godan, Gaban, Karmabhumi, Rangbhumi
37. Khushwant Singh	Indira Gandhi Returns, Indira Gandhi; Badhate Kadam, The Company of woman
38. B.M Kaul	Untold Story, Confrontation with Pakistan
39. Vijay Tendulkar	Sakharam Binder
40 R.K. Narayanan	The Darkroom, Malgudi Days, Guide, My Days, Swami and Friends
41. Dr. S. Radhakrishnan	Indian Philosophy
42. Sarojini Naidu	Golden Threshold, Broken wings
43. Suryakant Tripathi Nirala	Anamika, Parimal, Gunjan, Jusi ki kali
44. Yashpal	Jhootha Sach
45. Jai Shankar Prasad	Kamayani, Aansoo, Skandagupa, Ajatshatru
46. Kazi Nazrul Islam	Agni Veena
47. Mainthilisharm Gupt	Bharat Bharati
48. Ramdhari Singh Dinkar	Kurukshera, Urvashi
49. Mrs. Indira Gandhi	Eternal India
50. S.H. Vatsyayan 'Agyeya'	Kitni Nawon Mein Kitenee Bar, Aangan Ke paar, Dwar, Shekhar: Ek Jivani, Nadi Ke Dweep
51. Mahadevi Verma	Yama, Niharika, Neeraja
52. Amrit Lal Nagar	Amrit Aur Vish
53. Nayantara Sehgal	A Voice of Freedom
54. V.S. Naipal	Area of Darkness, A House for Mr. Biswas A Million Multinies Now, A Bend in the River
55. Devkinandan Khatri	Chandrakanta Santati
56. Sharat Chandra Chattopadhyay	Devdas, Charitraheen, Shrikant, Parineeta
57. Vrindavanal Verma	Jhansi Ki Rani
58. Jainendra Kumar	Sunita, Tyagpatra
59. Bhagwati Charan Verma	Chitralekha
60. Phanishwar Nath 'Renu'	Maila Aanchal, Mare Gaye Gulfam

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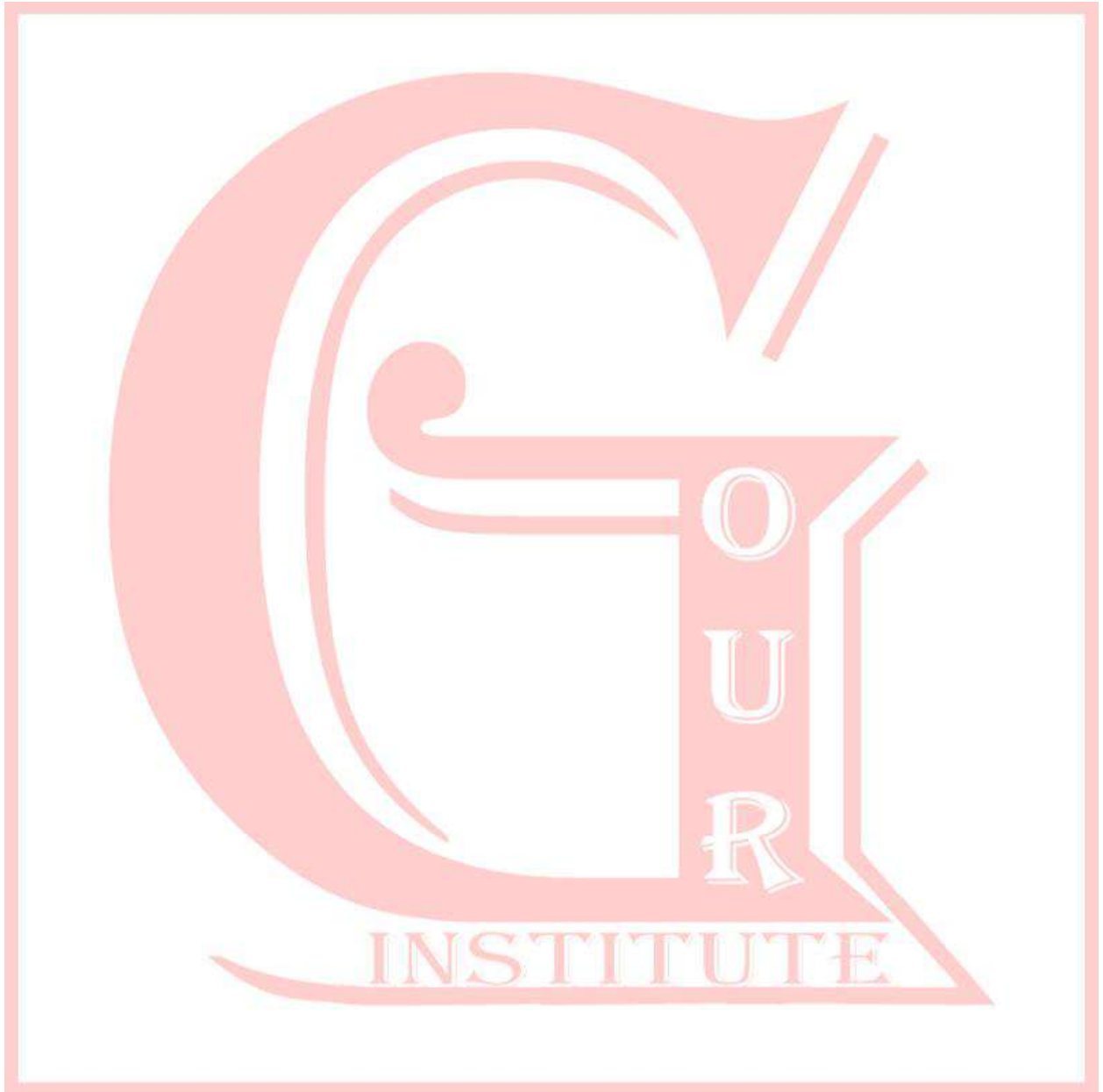
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61. Gajanan Madhav 'Muktibodh'	Chand Ka Munh Tedha Hai
62. Bhartendu Harischandra	Bharat Durdasha, Satya Harischandra



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Intelligence/ Detective Agencies of the world

Detective Agencies	Country
Central External Liaison Department	China
Australian Security & Intelligence Organisation	Australia
K.G.B./ G.R.U.	Russia
Bureau of State Security (B.O.S.S)	South Africa
M.I. (Military Intelligence) -5&6, Special Branch, Joint Intelligence Organisation	United Kingdom
Inter Services Intelligence (I.S.I)	Pakistan
Research & Analysis Wing (RAW), Intelligence Bureau (IB), Central Bureau of Investigation (CBI)	India
Central Intelligence Agencies (CIA), Federal Bureau of Investigation (FBI)	U.S.A.
MOSSAD	Israel
Mukhbarat	Egypt
Naicho	Japan
SAVAK (Sazamane Etelaat va Amniate Kechvar)	Iran
AI Mukhbarat	Iraq
D.G.S.E. (Direction General de Securite Exterieur)	France

News Agencies of some countries

Country	
United States of America	Associated Press (AP)
United Kingdom	Reuters
Russia	Telegraph Agency of the Sovereign States (TASS)
Malaysia	Malaysian National News Agency (MNNA)
Italy	Agenzia Nazionale Stampa Associate (ANSA)
Israel	Associated Israel Press (AIP)
France	Agence France Press (A.F.P)
India	Press Trust of India (PTI)
India	United News of India (UNI)
India	Samachar Bharti
India	Univarta
China	Xin Hua
Japan	Kyodo
Indonesia	Antara
Iran	Islamic Republic news Agency (IRNA)
Germany	Deutsche Presse Agentur (D.P.A.)

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Palestine	Wafa
Australia	Australian Associated Press (A.A.P)
Russia	Novosti
Pakistan	Pakistan Press International (P.P.I) and Associated Press of Pakistan (APP)
Egypt	Middle East News Agency (MENA)
United States of America	United Press International (UP)

Country

Australia
Bangladesh
Canada
Denmark
France
Germany
India
Iron
Ireland
Italy
Japan
Norway
Pakistan
Spain
Sri Lanka
Russia
United Kingdom
U.S.A.

Emblem

Kangaroo
Water Lily
White Lily
Beach
Lily
Com Flower
Lion Capital
Rose
Shamrock
White Lily
Chrysanthemum
Lion
Crescent
Eagle
Sword & Lion
Sickle & Hammer
Rose
Golden Rod



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This post is about to find important days/dates and to keep remember all important days/dates in each month to celebrate each and every national and internal events/days and festivals. Below table is the complete list of all dates and name of days worldwide.

January

1. Louis Braille Day	5th January
2. World Laughter Day	10th January
3. National Youth Day (Birthday of Swami Vivekanand	12th January
4. Army Day	15th January
5. International Customs and Excise Day	25th January
6. Tourism Day (India)	25th January
7. Republic Day (India)	26th January
8. Martyrs's Day	30th January
9. Leprosy Prevention Day	30th January
10. Sarvodaya Day	30th January

February

1. Rose Day	12th February
2. Valentine Day	14th February
3. International Mother Tongue Day	21th February
4. Central Excise Tex Day	24th February
5. National Science Day	28th February

March

1. National Safety Day (Security of Industrial Institutions)	4th March
2. International Woman's Day	8th march
3. World Kidney Day	9th March
4. Central Industrial Security Force (CISF) Foundation day	12th march
5. World Consumer Day	14th March
6. Ordnance Manufacturing Day	18th March
7. World Disabled Day	20th March
8. World Forestry Day	21st March
9. World Water day	22nd March
10. World Meteorological Day	23rd March
11. Ram Manohar Lohia's Birth Day (Anniversary)	23rd March
12. Bhagat Singh , Sukhdev And Rajguru's Martyrdam Day	23rd March
13. World TB (Tuberculosis) Day	24th March
14. Rural Postal Life Insurance Day	24th March

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15. Sacrifice Day of Ganesh Shankar Vidyarthi	25th March
16. National Day of Bangladesh	26th March
17. World theatre Day	27th March

April

1. National Maritime Day	5th April
2. Special Protection Group (SPG) Foundation Day	7th April
3. World Health Day	7th April
4. World Homeopathy Day (Birth day of Samuel Hanimen)	10th April
5. World Aeronautics and Cosmology Day	14th April
6. Ambedkar's Birth Anniversary	14th April
7. World Hemophilia Day	17th April
8. World Heritage Day	18th April
9. Indian Civil Service Day	21st April
10. Earth Day	22nd April
11. World Books and Copyright Day	23rd April
12. Panchayat Divas	24th April

May

1. International Labour Day (Worker's Day of May Day)	1st May
2. World	2nd May
3. World Press Freedom Day	3rd May
4. World Red Cross Day	8th May
5. Mother's Day	2nd May
6. World Laughter Day	7th May
7. World Thalassamia Day	8th May
8. International Pthylesemia Day	8th May
9. National Technological Day	11th May
10. International Nurses Day	12th May
11. International Family Day	15th May
12. World Telecommunication Day	17th May
13. Anti-Terrorism Day	21st May
14. World Biodiversity	23rd May
15. Commonwealth Day	24th May
16. Death Anniversary of Jawahar Lal Nehru	27th May
17. World Anti-Tobacco (and No-smoking)	31st May

June

1. World Environment Day	5th June
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2. International Olympic Association Establishment Day	6th June
3. Father's Day	18th June
4. World Refugee Day	20th June
5. World Diabetes Day	27th June

July

1. Doctor's Day (Birthday of Dr. Bidhan Chandra Roy)	1st July
2. State Bank of India Foundation Day	1st July
3. World Population Day	11th July
4. Kargil Memorial Day	26th July

August

1. World Breast Feeding Day	1st August
2. World Peace Day, Hiroshima Day	6th August
3. Quit India Day, Nagasaki Day	9th August
4. World Youth Day	12th August
5. Independence Day (India)	15th August
6. National Sports Day (Birth Day Of Dhyanchand)	29th August

September

1. Teacher's Day (Birth Day of S.Radhakrishnan)	5th September
2. World Literacy Day	8th September
3. World Fraternity and Apology Day	14th September
4. Hindi Dives (Day)	14th September
5. Engineer's Day	15th September
6. World Ozone Day	16th September
7. Railway Police Force (RPF) Foundation Day	20th September
8. Alzheimer's Day	21st September
9. World Deaf Day and World Heart Day	24th September
10. World Tourism Day	27th September

October

1. International Oldmen's Day	1st October
2. Mahatma Gandhi's Birth Day (International Non- violence Day)	2nd October
3. Birth day of Lal Bahadur Sastri	2nd October
4. World Habitat day	3rd October
5. World Animal Welfare Day	4th October
6. World Teacher's Day	5th October

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7. World Wild animal Day	6th October
8. Indian Air Force Day	8th October
9. World Post Day	9th October
10. Birthday of Loknayak Jay Prakash Narayan	11th October
11. UN International Day for Natural Disaster Reduction	13th October
12. World Standards Day	14th October
13. World Food Day	16th October
14. World Allergy Awareness Day	16th October
15. World Iodine Shortage Day	21st October
16. United Nation (UN) Day	24th October
17. Worldthrift Day	30th October
18. Death Anniversary of Indira Gandhi	31st October

November

1. World Service Day	9th November
2. Children's Day (Birth anniversary of Jawaharlal Nehru)	14th November
3. International Day For Endurance	16th November
4. World Students Day	17th November
5. National Journalism Day	17th November
6. World Adult Day	18th November
7. World Citizen Day	19th November
8. Universal Children's Day	20th November
9. World Television Day	21st November
10. World Non-veg Prevention Day	25th November
11. World Environment Protection Day	26th November
12. National Law Day	26th November

December

1. World AIDS Day	1st December
2. International Day for the Abolition of Slavery	2nd December
3. World Disabled Day	3rd December
4. Chemical Accidents Prevention Day	4th December
5. Navy Day	4th December
6. International Volunteers Day	5th December
7. International Civil Aviation Day	7th December
8. Armed Forces Flag Day	7th December
9. Girl Child Day (Balika Divas) (India)	9th December

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10. International Human Rights Day	10th December
11. World Children's Fund Day	11th December
12. World Asthma Day	11th December
13. National Energy Conservation Day	14th December
14. Liberation Day Of Goa	19th December
15. Kisan Dives (Birthday Charan Singh)	23rd December
16. X-mas Day	25th December
17. Central Reserve Police Force (CRPF) Foundation Day	26th December

FIRST IN INDIA -Male

The first President of Indian Republic	Dr. Rajendra Prasad
The first Prime Minister of free India	Pt. Jawahar Lal Nehru
The first Indian to win Nobel Prize	Rabindranath Tagore
The first President of Indian National Congress	W.C. Banerjee
The first Muslim President of Indian National Congress	Badruddin Tayyabji
The first Muslim President of India	Dr. Zakir Hussain
The first British Governor General of India	Lord William Bentinck
The first British Viceroy of India	Lord Canning
The first Governor General of free India	Lord Mountbatten
The first and the last Indian to be Governor General of free India	C. Rajgopalachari
The first man who introduced printing press in India	James Hicky
The first Indian to join the I.C.S	Satyendra Nath Tagore
India's first man in Space	Rakesh Sharma
The first Prime Minister of India who resigned without completing the full term	Morarji Desai
The first Indian Commander-in-Chief of India	General Cariappa
The first Chief of Army Staff	Gen. Maharaj Rajendra Singhji
The first Indian Member of the Viceroy's executive council	S.P.Sinha
The first President of India who died while in office	Dr. Zakhir Hussain

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The first Muslim President of Indian Republic	Dr. Zakhir Hussain
The first Prime Minister of India who did not face the Parliament	Charan Singh
The first Field Marshal of India	S.H.F. Manekshaw
The first Indian to get Nobel Prize in Physics	C.V.Raman
The first Indian to receive Bharat Ratna award	Dr. Radhakrishnan
The first Indian to cross English Channel	Mihir Sen
The first Person to receive Jnanpith award	Sri Shankar Kurup
The first Speaker of the Lok Sabha	Ganesh Vasudeva Mavalankar
The first Vice-President of India	Dr. Radhakrishnan
The first Education Minister	Abdul Kalam Azad
The first Home minister of India	Sardar Vallabh Bhai Patel
The first Indian Air Chief Marshal	S. Mukherjee
The first Indian Naval Chief	Vice Admiral R.D. Katari
The first Judge of International Court of Justice	Dr. Nagendra Singh
The first person to reach Mt. Everest without oxygen	Sherpa Anga Dorjee
The first person to get Param Vir Chakra	Major Somnath Sharma
The first Chief Election Commissioner	Sukumar Sen
The first person to receive Magsaysay Award	Acharya Vinoba Bhave
The first person of Indian origin to receive Nobel Prize in Medicine	Hargovind Khurana
The first Chinese traveller to visit India	Fahein
The first person to receive Stalin Prize	Saifuddin Kitchlu
The first person to resign from the Central Cabinet	Shyama Prasad Mukherjee
The first person to receive Nobel Prize in Economics	Amartya Sen
The first Chief Justice of Supreme Court	Justice Hiralal J. Kania
The first Indian Pilot	J.R.D. Tata (1929)

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Female

The first lady to become Miss World	Rita Faria
The first woman judge in Supreme Court	Mrs. Meera Sahib Fatima Bibi
The first woman Ambassador	Miss C.B. Muthamma
The first woman Governor of a state in free India	Mrs Sarojini Naidu
The first woman Speaker of a State Assembly	Shanno Devi
The first woman Prime Minister	Mrs Indira Gandhi
The first woman Minister in a Government	Rajkumari Amrit Kaur
The first woman to climb Mount Everest	Bachhendri Pal
The first woman to climb Mount Everest twice	Santosh Yadav
The first woman President of Indian National Congress	Mrs Annie Besant
The first woman pilot in Indian Air Force	Harita Kaur Dayal
The first woman Graduates	Kadambini Ganguly and Chandramukhi Basu, 1883
The first woman Airline Pilot	Durga Banerjee
The first woman Honours Graduate	Kamini Roy, 1886
The first woman Olympic medal Winner	Karnam Malleswari, 2000
The first woman Asian Games Gold Medal Winner	Kamlijit Sandhu
The first woman Lawyer	Cornelia Sorabjee
The first woman President of United Nations General Assembly	Mrs Vijaya Laxmi Pandit
The first woman Chief Minister of an Indian State	Mrs Sucheta Kripalani
The first woman Chairman of Union Public Service Commission	Roze Millian Bethew
The first woman Director General of Police	Kanchan Chaudhary Bhattacharya
The first woman Judge	Anna Chandy (She became judge in a district court in 1937)
The first woman Chief Justice of High Court	Mrs Leela Seth (Himachal Pradesh High Court)

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The first woman Judge in Supreme Court of India	Kumari Justice M. Fathima Beevi
The first woman Lieutenant General	Puneeta Arora
The first woman Air Vice Marshal	P. Bandopadhyaya
The first woman chairperson of Indian Airlines	Sushma Chawla
The first woman IPS officer	Mrs. Kiran Bedi
The first and last Muslim woman ruler of India	Razia Sultan
The first woman to receive Ashoka Chakra	Nirja Bhanot
The first woman to receive Jnanpith Award	Ashapura Devi
The first woman to cross English Channel	Aarti Saha
The first woman to receive Nobel Prize	Mother Teresa
The first woman to receive Bharat Ratna	Mrs Indira Gandhi
The first woman to receive Jnanpith Award	Ashapura Devi

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First in Others

First Wax statue of a Living Indian	Mahatma Gandhi at Madame Tussaud's in 1939
First Chinese pilgrim to Visit India	Fa-hien
First Exclusive internet magazine	Bharat Samachar
First Miss India to participate in Miss Universe	Indrani Rehman
First President of Indian National Congress	W.C. Bannerjee, 1885
First Muslim President of the Indian National Congress	Badruddin Tayyabji
First Judge in International Court of Justice	Dr. Nagender Singh
First Graduate in Medicine	Soorjo Coomar Goodeve Chukerbutty
India's First University	Nalanda University
India's First Open University	Andhra Pradesh Open University
India's First Lok Sabha Member to be elected with a record maximum number of votes	P.V.Narasimha Rao
First Indian to reach Antarctica	Lt. Ram Charan
First British to Visit India	Hawkins
First Test tube baby of India	Indira (Baby Harsha)
First Post Office Opened in India	Kolkata(1727)

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Country

Australia
Bangladesh
Canada
Denmark
France
Germany
India
Iron
Ireland
Italy
Japan
Norway
Pakistan
Spain
Sri Lanka
Russia
United Kingdom
U.S.A.

Emblem

Kangaroo
Water Lily
White Lily
Beach
Lily
Com Flower
Lion Capital
Rose
Shamrock
White Lily
Chrysanthemum
Lion
Crescent
Eagle
Sword & Lion
Sickle & Hammer
Rose
Golden Rod

