

Department of Physics

Dwaraka Doss Goverdhan Doss Vaishnav College

(Autonomous)

Arumbakkam, Chennai – 600 106

BRIGHT SPARKS



Vision Statement

To impart value based quality academia, to empower students wisdom and to charge them with rich Indian traditions and culture; to invoke the self, to broaden the same towards Nation building, harmony and Universal brotherhood.

JANUARY 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
There is nothing worth in this world that can come without the sweat of our brow. – Sir. C.V.Raman			1	2	3	4
			S.N Bose (1894)			
5	6	7	8	9	10	11
				Hargobind Khorana (1922)		
12	13	14	15	16	17	18
Yellapragada Subbarow (1895)	Rakesh Sharma (1949)					
19	20	21	22	23	24	25
26	27	28	29	30	31	
		Raja Ramanna (1925)				



Physicists calendar inspired from "Bright Sparks" by Arvind Gupta
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FEBRUARY 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
We must believe that we are gifted for something, and that this thing, at whatever cost, must be attained. - Marie Curie						1
2	3	4	5	6	7	8
	T.R.Seshadri (1900)					
9	10	11	12	13	14	15
16	17	18	19	20	21	22
					Shanti Swarup Bhatnagar (1894), A.P.Mitra (1927)	
23	24	25	26	27	28	
					National Science Day	



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MARCH 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
An expert is a person who has made all the mistakes that can be made in a very narrow field. – Neils Bohr						1
2 Laurie Baker (1917)	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					



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APRIL 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
		1	2	3	4	5
					Sathyanarayan Gangaram Pitroda (1942)	Ruchi Ram Sahni (1863)
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	If I have seen further than others, it is by standing upon the shoulders of giants. I can calculate the motion of heavenly bodies, but not the madness of people. - Sir Isaac Newton		
V.N.Shirodkar (1899)						



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MAY 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
God used beautiful Mathematics in creating the world. - Paul Dirac				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
	B.P.Pal (1906)					



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JUNE 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	Science without religion is lame, religion without science is blind. - Albert Einstein				
P.C.Malanobis (1892)						



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JULY 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
An equation means nothing to me unless it expresses a thought of God. -Srinivas Ramanujam		1	2	3	4	5
		Kalpana Chawla (1961)	Mylswami Annadurai (1958)			
6	7	8	9	10	11	12
13	14	15	16	17	18	19
						Jayanthnarlikar (1938)
20	21	22	23	24	25	26
27	28	29	30	31		
				D.D.Kosambi (1907)		



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AUGUST 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
In faith there is enough light for those who want to believe and enough shadows to blind those who don't. Imagination decides everything. The heart has reasons that reason cannot know. - - Blaise Pascal					1	2
						Prafulla Chandra Roy (1861)
3	4	5	6	7	8	9
			Sivaramakrishana Chandrasekar (1930)		Vulimiri Ramalingaswami (1921)	Alladi Ramakrishnan (1923)
10	11	12	13	14	15	16
M.K.Vainnu Bappu (1927)		Vikram Sarabhai (1919)				
17	18	19	20	21	22	23
						Anna Mani (1918)
24	25	26	27	28	29	30
31						



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SEPTEMBER 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
	1	2	3	4	5	6
						John Dalton (1766)
7	8	9	10	11	12	13
			Yelavarthy nayudamma (1922)			
14	15	16	17	18	19	20
	M.Visvesvaraya (1860)	ECG Sudharsan (1931)				Dewar (1842)
21	22	23	24	25	26	27
			A.S.Paintal (1925)			
28	29	30	An equation means nothing to me unless it expresses a thought of God. -Srinivas Ramanujam			



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OCTOBER 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
Where there is righteousness in the heart, there is beauty in the character. When there is beauty in the character, there is harmony in the home. When there is harmony in the home, there is order in the nation. When there is order in the nation, there is peace in the world. - A.P.J.Abdul Kalam			1	2	3	4
5	6 Meghnad Saha (1893) Aradaseer Cursetjee(1808)	7	8 G.N.Ramachandran (1922)	9	10	11 Harish chandra (1923)
12	13	14	15 A.P.J.Abdul Kalam (1931)	16	17	18
19 Subrahmanyam Chandrasekhar (1910)	20	21	22	23 D.N.Wadia (1883)	24 S.K.Mitra (1889)	25
26	27	28	29	30 Homi Jehangir Bhabha (1909)	31	



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NOVEMBER 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
The five essential entrepreneurial skills for success are concentration, discrimination, organization, innovation and communication. – Michael Faraday						1
2	3	4	5	6	7	8
			J.B.S.Haldane (1892)		Sir.C.V.raman (1888)	
9	10	11	12	13	14	15
P.Maheswari (1904)	International science day for peace	Anil kakodar (1943)	Salim Ali (1896)		Birbal Sahani (1891)	
16	17	18	19	20	21	22
23	24	25	26	27	28	29
			Yash pal (1926)		P.K.Sethi (1927)	
30						
Acharya Sir.J.C.Bose (1858)						



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DECEMBER 2014

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
	1	2	3	4	5	6
				Sir K.S.Krishnan (1898)		
7	8	9	10	11	12	13
14	15	16	17	18	19	20
	Irawati Karve (1905)					
21	22	23	24	25	26	27
	Srinivasa Ramanujam (1887)					
28	29	30	31	You cannot teach a man anything; you can only help him find it within himself. All truths are easy to understand once they are discovered; the point is to discover them. Doubt is the father of invention. - Galileo Galilei		



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1.S.N.Bose

He is best known for his work on quantum mechanics in the early 1920s, providing the foundation for Bose–Einstein statistics and the theory of the Bose–Einstein condensate. A Fellow of the Royal Society

2.Yellapragada subbarao

He is an Indian biochemist who discovered the function of adenosine triphosphate as an energy source in the cell, and developed methotrexate for the treatment of cancer.

3.Har Gobind Khorana

He is an Indian American biochemist who shared the 1968 Nobel Prize for Physiology or Medicine with Marshall W. Nirenberg and Robert W. Holley for research that helped to show how the nucleotides in nucleic acids, which carry the genetic code of the cell, control the cell's synthesis of proteins.

4.Rakesh sharma

Wing Commander Rakesh Sharma, AC, Hero of the Soviet Union, (born 13 January 1949) is a former Indian Air Force test pilot who flew aboard Soyuz T-11 as part of the Intercosmos program. Sharma was the first Indian to travel in space.

5.laurie Paker

He sought to incorporate simple designs with local materials and achieved fame with his approach to sustainable architecture as well as in organic architecture. He has been called the "Gandhi of architecture".

6.Sam Pitroda

As technology Advisor to the Prime Minister, Rajiv Gandhi in the 1984s, Pitroda not only heralded the telecom revolution in India, but also made a strong case for using technology for the benefit of society through missions on telecommunications, literacy, dairy, water, immunization and oil seeds.

7. Ruchi Ram

Sahni Ruchi Ram Sahni (April 5, 1863 – June 3, 1948) was a Punjabi freedom fighter having a wide influence as an educationist and creator of scientific temper in the pre-partition Punjab. He was a scientist, an innovator, an enthusiastic educationist, a fierce patriot, a devoted social worker and the catalyst behind popularizing science education in Punjab.

8.Shirodkar

His most widely known contribution is Cervical cerclage the "Shirodkar cerclage". His other contributions include operations for prolapse repair, tuboplasty and creation of neovagina. He published widely and took a keen interest in social medicine

9. P.C.Mahalanobis FRS

He was an Indian scientist and applied statistician. He is best remembered for the Mahalanobis distance, a statistical measure. He made pioneering studies in anthropometry in India. He founded the Indian Statistical Institute, and contributed to the design of large-scale sample surveys. he also worked with Djordge Kostic, Rhea Das and Alakananda Mitter on Speech Pathology and made revolution in language correction

10. Kalpana Chawla

She was the first indian women to travel in space and to work in NASA. She first flew on Space Shuttle Columbia in 1997 as a mission specialist and primary robotic arm operator

11. Benjamin Peary Pal :

He was the first Director of Indian Council of Agricultural Research. He was one of the foremost scientists in Wheat genetics and breeding. He was elected a fellow of the Royal Society in 1972.

12. Mylswami Annadurai

He is a scientist with the Indian Space Research Organization and currently serves as Programme Director for IRS&SSS (Indian Remote Sensing & Small, Science and Student Satellites) that include Chandrayaan-1, Chandrayaan-2, ASTROSAT, Aditya-1 and Mars Orbiter Mission.

13. D.D. Kosambi

He was an Indian mathematician, statistician, Marxist historian, and polymath who contributed to genetics by introducing Kosambi's map function. He is well known for his work in numismatics and for compiling critical editions of ancient Sanskrit texts

14. Prafulla Chandra Roy

He was an Bangladeshi chemist, educator and entrepreneur. The Royal Society of Chemistry honoured his life and work with the first ever Chemical Landmark Plaque outside Europe. He was the founder of Bengal Chemicals & Pharmaceuticals India's first pharmaceutical company.

15. Alladi Ramakrishnan

He was an Indian physicist and the founder of the Institute of Mathematical Sciences in Chennai

16. Vulimiri Ramalingaswami

He was an Indian medical scientist. He was also the director of All India Institute of Medical Sciences and later on director general of Indian Council of Medical Research and President of the Indian National Science Academy

17. M.K.Vainu Bappu

He was an Indian astronomer and president of the International Astronomical Union. In 1957, he discovered the Wilson-Bappu effect jointly with American astronomer Olin Chaddock Wilson.

18. Anna Mani

He was an Indian physicist and meteorologist. She was the Deputy Director General of the Indian Meteorological Department. She made significant contributions in the field of meteorological instrumentation.

19. Yelavarthy Nayudamma

He contributed to the initial development of the Central Leather Research Institute at Chennai, India. He was responsible for building the international image of the institute and for establishing close ties with the Indian leather industry

20. M.Visvesvaraya

He was a notable Indian engineer, scholar, statesman and the Diwan of Mysore during 1912 to 1918. Every year, 15 September is celebrated as Engineer's Day in India in his memory

21. ECG Sudharsanan :

He is an Indian theoretical physicist and a professor at the University of Texas. Sudarshan has been credited with numerous contributions to the field of theoretical Physics including Optical coherence, Sudarshan-Glauber representation, V-A theory, Tachyons, Quantum Zeno effect, Open quantum system, Spin-statistics theorem, non-invariance groups, positive maps of density matrices, quantum computation among others. His contributions include also relations between east and west, philosophy and religion.

22. A.S.Paintal

He was a medical scientist who has made pioneering discoveries in the area of neurosciences and respiratory sciences.

23. Meghnad Saha FRS

He was an Indian astrophysicist best known for his development of the Saha equation, used to describe chemical and physical conditions in stars

24. Aradaseer Cursetjee FRS

He was an Indian shipbuilder and engineer. He is noted for having been the first Indian to be elected a Fellow of the Royal Society. He is also recorded as having introduced several (at the time) novel technologies to the city of Bombay (now Mumbai), including gas lighting, the sewing machine, steam pump-driven irrigation and electro-plating

25. Subrahmanyan Chandrasekhar

He was an Indian-American astrophysicist who, with William A. Fowler, was awarded the 1983 Nobel Prize for Physics for his mathematical theory of black holes, which was a key discovery that led to the currently accepted theory on the later evolutionary stages of massive stars. The Chandrasekhar limit is named after him

26. D.N. Wadia FRS

He was a pioneering geologist in India and among the first Indian scientists to work in the Geological Survey of India. He is remembered for his work on the stratigraphy of the Himalayas. He helped establish geological studies and investigations in India, specifically at the Institute of Himalayan Geology, which was renamed in 1976 after him as the Wadia Institute of Himalayan Geology

27. S.K. Mitra

He was an Indian Bengali physicist. Among his accomplishments were his investigations into the ionosphere. Dr. Mitra proposed that ultraviolet light from the sun created the middle, or E layer, of the ionosphere. He also determined that ions in the ionosphere's F layer were what caused luminescence of the night sky, giving it a dusty hue rather than pitch black. In 1947 he published a reference treatise titled "The Upper Atmosphere" on atmospheric research

28. Homi Jehangir Bhabha,FRS

He was an Indian nuclear physicist, founding director, and professor of physics at the Tata Institute of Fundamental Research. Colloquially known as "father of Indian nuclear programme ", Bhabha was the founding director of two well-known research institutions, namely the Tata Institute of Fundamental Research (TIFR) and the Trombay Atomic Energy Establishment (now named after him);

29. J.B.S.Haldane

John Burdon Sanderson Haldane FRS (5 November 1892 – 1 December 1964), known as Jack (but who used 'J. B. S.' in his printed works),

30. Salim Ali

He was an Indian ornithologist and naturalist. Sometimes referred to as the "birdman of India", Salim Ali was among the first Indians to conduct systematic bird surveys across India and his bird books helped develop ornithology

31. Birbal Sahani FRS

He was an Indian paleobotanist who studied the fossils of the Indian subcontinent, was also a geologist who took an interest in archaeology. He founded the Birbal Sahni Institute of Palaeobotany in Lucknow, India.

32. P.K.Sethi

He was an Indian orthopaedic surgeon. With Ram Chandra Sharma, he co-invented the "Jaipur foot", an inexpensive and flexible artificial limb, in 1969.

33. Acharya Sir.J.C.Bose CSI, CIE, FRS

He was a Bengali polymath, physicist, biologist, botanist, archaeologist, as well as an early writer of science fiction. He pioneered the investigation of radio and microwave optics, made very significant contributions to plant science

34. Yash Pal

He is an Indian scientist and educator. He is known for his contributions to the study of cosmic rays, as well as for being an institution-builder. In his later years, he has become one of the leading science communicators of the country.

35. Srinivasa ramanujan

He was an Indian and autodidact who, with almost no formal training in pure mathematics, made extraordinary contributions to *mathematical analysis*, number theory infinite series, and continued fractions. Ramanujan was said to be a natural genius by the English mathematician G. H. Hardy, in the same league as mathematicians such as Euler and Gauss.

By

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