



Indian Institute of Information Technology, Surat  
भारतीय सूचना प्रौद्योगिकी संस्थान, सूरत

$$\begin{aligned}\sin(\alpha+\beta) &= \cos\left[\frac{\pi}{2}-(\alpha+\beta)\right] \\ &= \cos\left[\left(\frac{\pi}{2}-\alpha\right)-\beta\right] \\ &= \sin\alpha\cos\beta + \cos\alpha\sin\beta\end{aligned}$$



$$\begin{aligned}\frac{\sin\alpha + \sin\beta}{\sin\alpha - \sin\beta} &= \frac{2\sin\frac{\alpha+\beta}{2}\cos\frac{\alpha-\beta}{2}}{2\cos\frac{\alpha+\beta}{2}\sin\frac{\alpha-\beta}{2}} \\ &= \frac{\sin\frac{\alpha+\beta}{2}\cos\frac{\alpha-\beta}{2}}{\cos\frac{\alpha+\beta}{2}\sin\frac{\alpha-\beta}{2}} \\ &= \frac{\tan\frac{\alpha+\beta}{2}}{\tan\frac{\alpha-\beta}{2}}\end{aligned}$$

Organizes  
21 days Online Course  
On

## Vedic Mathematics वैदिक गणित

In collaboration with  
Karnataka Samskrit University  
Bangalore, Karnataka



### ABOUT THE INSTITUTE

Indian Institute of Information Technology Surat is an Institute of National Importance established under the Act of Parliament (2017) by the Ministry of Education, Government of India in Public-Private-Partnership basis, in association with Government of Gujarat, Gujarat Narmada Valley Fertilizers & Chemicals Ltd., Gujarat Informatics Ltd and Gujarat Gas Limited.

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### ABOUT VEDIC MATHS

#### Introduction

Vedic Mathematics is a collection of Techniques or Sutras to solve mathematical arithmetics in easy and faster way. It consists of 16 Sutras (Formulae) and 13 sub-sutras (Sub Formulae) which can be used for problems involved in arithmetic, algebra, geometry, calculus, conics. Vedic Mathematics is a system of mathematics which was discovered by Indian mathematician Jagadguru Shri Bharathi Krishna Tirthaji in the period between A.D. 1911 and 1918.

Using regular mathematical steps, solving problems sometimes are complex and time consuming. But using Vedic Mathematic's General Techniques and Specific Techniques (numerical calculations can be done very fast.

#### Benefits of Vedic Maths

- Reduce of the remembering large amount of stuff
- Enables faster calculations
- Reducing finger counting
- Very simple and straight forward method
- Keeps mind alert
- Helps to develop the spiritual side of our personality
- Enables mental calculations
- Introduces the creativity
- Helps slow learner for grasping basic concept of maths

Best Wishes from

Prof. K E Devnathan  
(Vice Chancellor, KSU)

Prof. J S Bhat  
(Director, IIIT-Surat)



## Online Course on Vedic Mathematics

The Indian Institute of Information Technology Surat, an Institute of National Importance, is organizing a National Level Vedic Mathematics course to encourage the youth of the country to explore more about the wealth of Scientific wisdom lying hidden in ancient Sanskrit literature. This is an innovative initiative to gain the access to the mind space of the younger generations and channelize them towards researching the treasure chest of knowledge of ancient Indic sciences.

This programme is being organized in collaboration with Karnataka Samskrit University, Bangalore, Karnataka. The University, established in the year 2010, is formed exclusively to function as a high-level teaching and research Institution in Samskrit language, Literature and



Vedic studies and Shastras such as Vyakarana, Samkhya, Yoga, Nyaya, Vaisheshika, Mimamsa, Vedanta, Bauddha, Jaina, Dharma Shastra and others and supportive education. Also, the university strives to preserve, foster and promote the traditional system of learning in Vedic, Agamic and Cognate Literature, with special emphasis on unique features available in Karnataka. The university will highlight the wisdom contained in the Vedic and other disciplines, and their reference to the modern world. It has established the Directorate of Samskrit Education, to take care of Pre-university education in Karnataka. For more details on activities, courses offered and publications please visit the website of Karnataka Samskrit University: [www.ksu.ac.in](http://www.ksu.ac.in)

The first online class on Vedic Mathematics will commence on 18<sup>th</sup> Jan. 2021 and continue for 21 days. Every day the online classes will be between 4:00 PM and 6:00 PM. To begin with, Vedic Mathematics (Level-1) online classes will be conducted for the students studying in 9<sup>th</sup> to 12<sup>th</sup> standards. Interested students shall register online using google form link given below.

**The fee for 21-day course (for 9<sup>th</sup> to 12<sup>th</sup> standard students only): Rs.400/-**

The first 60 registered students (of 9<sup>th</sup> to 12<sup>th</sup> class only) will be considered for the class commencing from 18<sup>th</sup> Jan. 2021. The course on Vedic Mathematics will be continued, and students studying in degree classes and all others interested in learning Vedic Mathematics will be considered subsequently. All participants will get a certificate at the end of the course based on the evaluation report received from the subject expert.

The online Vedic Mathematics class will be conducted by the renowned teacher of Vedic Mathematics **Smt. Sumangala M Dandewale, M.A. M.Ed.**, who is resident of Bangalore/Dharwad in Karnataka. She has done extensive study in the subjects of Sanskrit and Mathematics.



She has been teaching Mathematics in Karnataka High School, Dharwad for 40 years. Kursh Gyan Foundation is the Institute established by Smt. Sumangala M Dandewale for popularizing



Vedic Mathematics in schools, colleges and corporate world. The Institute trains students from the 5<sup>th</sup> Standard to students studying in Engineering and Management Colleges. Even corporate employees have undergone Vedic Mathematics training for improving their performance. Several stalwarts and distinguished members of the Society including Educational Ministers have visited the Institute and have deeply appreciated and acknowledged the work done at the Institute.

The details of the account number for remitting the fee is given below:

1. Account Number : **38303120074**
2. IFSC Code : **SBIN0003320**
3. Owner of the Account: Indian Institute of Information Technology, Surat
4. Name of the Bank: State Bank of India
5. Branch: SVRCET branch, SVNIT Campus, Surat – 397005.

**Following steps may be followed to fill the form:**

1. Pay the fee using online banking NEFT. Note the UTR number for paying fee.
2. You need to have an email ID for all correspondences
3. Click the link for the google form: <https://forms.gle/C45KsxtTnc8D8fuL8>
4. Start filling the form as suggested in the form.
5. Upload the photo of your **school identity card**.
6. Submit the form.

**Coordinators of the programme:**

Shri. Ankit Adesara, IIIT-Surat (9624863465)

Ms. Shraddha Patel, IIIT-Surat (9879425745)

Shri. Ravinandan, Kursh Gyan Foundation (9844090608)

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