



# ST. ANN'S COLLEGE FOR WOMEN

(A Catholic Christian Minority Institution Affiliated to Acharya Nagarjuna University)  
(Recognized the College Under Section 2(f) of the UGC Act. 1956 - New Delhi)

AMARAVATHI ROAD, GORANTLA, GUNTUR - 522 034. A.P.

Date: 06-07-2019

## DEPARTMENT OF MATHEMATICS NOTICE

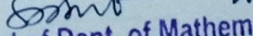
All the students of III B. Sc are hereby informed that the Department of Mathematics in association with IQAC is organizing a 30 hours "Add- On Course" on Vedic Mathematics from 08<sup>th</sup> July to 18<sup>th</sup> July 2019. The course will be conducted offline mode from 9:00 AM to 12:00 PM everyday with following contents.

### Contents:

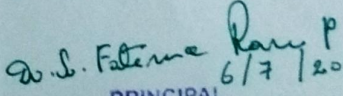
1. EkadhikenPurvenaSutrs
2. NikhilamNavatacharam Am Dasatah Sutras
3. Urdha – Tiruagayam Sutras
4. ParavartyaYojauet
5. SunymaSamyasamuch aye

### Note :

The course is free of cost and the successful candidate will be issued certificate by the college which will help them in future.

  
Head of Dept. of Mathematics  
St. Ann's College for Women  
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6/7/2019  
PRINCIPAL  
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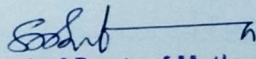
## About the Vedic Maths:

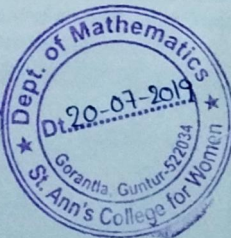
Vedic Mathematics consists of 16 Sutras called formulae and 13 Sub-Sutras called sub formulae which can be applied to the solving of problems in arithmetic, algebra, geometry, calculus, conics etc..

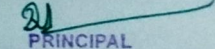
## Vedic Mathematics benefits:

- Calculation become easy and short.
- Students undergo less mental stress.
- Simplifications can be done in less time.
- The possibility of committing errors by students using these Sutras is negligible.
- Vedic Mathematics helps to solve hard problems using mental calculations.

S.No	Sutras
1. Ekdhiken Purvena	Anurupyena
2. Nikhilam Navatacharamam Dasatah	Sisyatesesajnah
3. Urdhva-Tiryagbhyam	Adyamadyenantya-Mantyaena
4. Paravartya Yojayet	Kevalaihsaptakamgunyat
5. Sunyama Samyasamuchaye	Vestanam
6. (Anurupye) Sunyamanyat	Yavadunam Tavadunam
7. Sankalana-Vyavakalamnabyam	Yavadunam Tavadunikrtya Varganca Yojayet
8. Puranapuranaabhyam	Antyayoradaskaepi
9. Chalana-kalanabhyam	Antyayoreva
10. Yavadunam	Lopasthapanabhyam
11. Vyastisamastih	Vilokanam
12. Sesanyankena Caramena	Samuccayagunitha
13. Sopantyaddayamantya	Gunitasamuccayahsamuccayagunith
14. Ekanyunena Purvena	
15. Gunitasamuccayah	
16. Gunakasamuccayah	

  
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Ph : 0863-2236470

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**Course title:** Vedic Mathematics

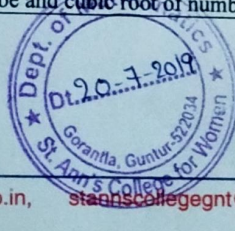
**Category:** Valued Added Course

**Scope of Course:** Skill Development

**Course Objectives:** The course aims to impart skills on solving numerical problems.

Category	Value Added Course	
Scope of the course	<ul style="list-style-type: none"> <li>Skill Development</li> </ul>	
Cognitive levels addressed by the course rules	<ul style="list-style-type: none"> <li>Remembering the basic rules of finding square and square root of number(k-1)</li> <li>Understanding the Vedic sutras and apply them to find square and square root of number(k-2&amp;k-3)</li> <li>Remembering the basic rules of finding the cube and cubic root(k-1)</li> <li>Understanding the Vedic sutras and apply them to find cube and cubic root of number (k-2&amp;k-3)</li> </ul>	
Course Objective	The course aims to impart skills on solving numerical problems.	
Unit	Content	Number of hours
I	Square Introduction-An interesting pattern – relation between triangular number and square number-Vedic mathematics for squaring-Ekkhikenapurvena-anurapyena-yavaddunam and duplex methods-it's meaning and application square root introduction-Aryabhatta's method to find the square root-fundamental rules to extract the square root of number-Duplex Vedic method for finding square root- square root of an irrational number.	15
II	Cube-Introduction-properties of cubic number- algebraic method to find the cube- different Vedic sutras- Anurepyena,nikilam,ekdahikenapurvena and yavaddunam-it's meaning and applications. Cube root:Introduction- Vedic method to find Cube root of any less than 7 digital-Vedic method to extract the cubic root of number having 7,8 or 9 digits.	15
Reference	<b>Text Books:</b> 1.Rajesh Kumar Thakur,Vedic Mathematics, Unicorn books and enlarged edition,S.Chand& Company Ltd.,New Delhi,2017. <b>E-Resources:</b>	
Course Outcomes	On completion of the course students should be able to Find the square of number using Vedic sutras Find the square root of numbers. Find cube and cubic root of numbers	

*S. Sub*  
 Head of Dept. of Mathematics  
 St. Ann's College for Women  
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## ADD- ON CERTIFICATE COURSE

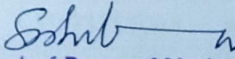
DEPARTMENT OF MATHEMATICS

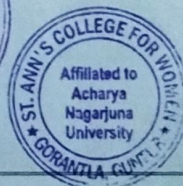
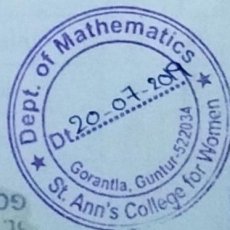
### ❖ Course Syllabus :

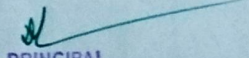
- Multiplication (Base Method)
- Multiplication (Cross Wise Method)
- Multiplication (Special Class)
- Division
- Finding Square Root
- Finding Cube Root
- Addition & Subtraction

### ❖ Course Outcomes :

- **Beat Your Competition** : Stand out from the rest. Make Vedic Math your winning edge.
- **Cultivates interest in Numbers & figures** : Vedic Mathematics helps you build a rock – solid foundation in Mathematics.
- **Improves Memory & Confidence** : Needless to say with all those positive energies you become a calculate yourself.
- **Increases mental ability & intelligence** : Open doors to infinite possibilities in your careers by having Vedic Mathematics skills.

  
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