

**Sri A.S.N.M GOVERNMENT COLLEGE (A),  
PALAKOL,W.G.DT.**

**DEPARTMENT OF MATHEMATICS**

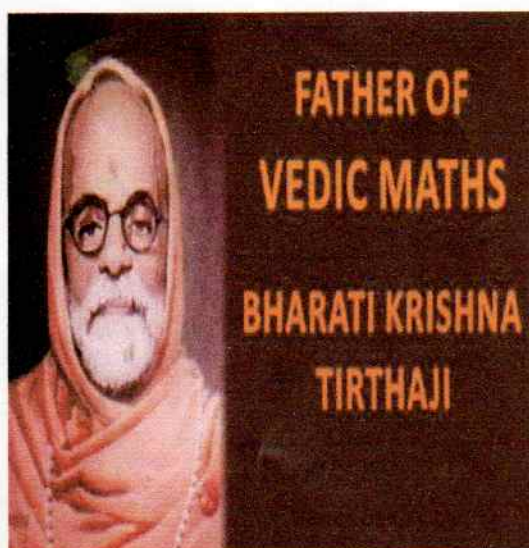
**CERTIFICATE COURSE IN MATHEMATICS**

**(2020-2021)**

**“16 SUTRAS OF VEDIC MATHEMATICS”**

**COURSE COORDINATOR,**

**Dr.G.S.V.S.SAIBABA, HOD OF MATHEMATICS**



## CONTENTS

	Page No.
1.Minutes of the meeting	03
2.Report on Certificate course	04
3.Course Objectives	04
4.Expected program specific outcomes	04
5.Other details	
• List of students enrolled &Attendance particulars	5,6
• Course Syllabus	7
• Multiple choice question paper & Key	8-12
Marks Obtained	13
• Other details	13
• Conclusion &References	13
• Photos & model certificate	14-15


### Minutes of the meeting


The Department of Mathematics staff held meeting on 22-11-2021 and passed resolution to organize certificate course that is 16 sutras of vedic mathematics under the guidelines of


Dr. G.S.V.S. Saibaba, HOD in Mathematics for 30 working days.


The certificate course in **16 sutras of vedic mathematics** was organized from 24-11-2021 to 28-12-2021 for the academic year 2020-2021 to the III B.Sc.MPCs students under curriculum enrichment programme.

#### Signature of the staff members :

Dr. G.S.V.S. SAI BABA, HOD in Mathematics - 

B.K.V. RAMA LAKSHMI, contract lecturer in Mathematics -   
22/11/2021

K.SIVA KRISHNA, Contract Lecturer in Mathematics -   
22/11/2021

  
Signature of the principal  
PRINCIPAL  
SRI A.S.N.M. GOVT. COLLEGE  
NAAC Accredited at B Grade  
PALAKOL - 534 260 W.G.Dt.



## **Report on Certificate course in vedic mathematics**

### **Introduction**

Department of Mathematics conducted a certificate course in 16 sutras of vedic mathematics during the academic year 2020-2021 under curriculum enrichment programme.

Jagadguru , Adi Shankaracharya Shri Bharti Krishna Tirathji Maharaj between the periods 1911 to 1918 rediscovered the sixteen sutras of mathematics from Atharva Vedas, the ancient Indian system of calculations. The sutras collectively were later named as vedic Maths. These sutras were derived from “ The Gaint Sutras “ also known as Sulabh Sutras or the simply system of mathematics. The language of these sutras was in Sanskrit which was difficult to understand for common man. It took the genius of Tirathji to decode the various layers of similar sets with different meaning and make it understandable for all.

According to his researches, mathematics is based on 16 Sutras or word- formulae. The 16 sutras are further divided into 13 sub-sutras, derived from Vedic text covering every branch and part of mathematics- arithmetic, algebra, geometry, trigonometry, physics, plain and spherical geometry, conics, calculus-differential and integral, applied mathematics of various kinds, dynamics etc. In this course mainly we discussed sixteen sutras of vedic mathematics.

### **Course objectives:**

1. High speed of Vedic Mathematics is 10 to 15 times faster than normal Mathematics
2. Increases speed, accuracy and become a mental Calculator.
3. This course will be beneficial for students with mathematics in their school or college.

### **Expected outcomes of specific programme:**

The findings of the study were: 1) Achievement of the students taught through Vedic mathematics was found to be higher than those taught through conventional mathematics. 2) Achievement of the students taught through Vedic mathematics with high intelligence is higher than those with average and low intelligence.

- Helps in Simplifying Calculations. Maths is not always the favourite subject of a child as it can get tricky to calculate numbers
- Enhances Ability for Numbers
- Improves Focus, Memory & Concentration
- Speed & Accuracy.
- Better Performances in Competitive Exams.
- Quick learning.

**SRI A.S.N.M. GOVERNMENT COLLEGE(AUTONOMOUS)**

**PALAKOL, W.G.DT- 534260**

**DEPARTMENT OF PHYSICS**

**CERTIFICATE COURSE 2020-2021**



**CERTIFICATE COURSE**

**IN**

**Instrumentation Basics and Technical Skill Development**

**COURSE COORDINATOR**

**SriG.SRINIVASARAO Lecturer in Physics**

**DEPARTMENT OF PHYSICS**

## **CONTENTS**

	<b>Page No.</b>
1. Minutes of the meeting	03
2. Report on Certificate course	04
3. Expected program specific outcomes:	04
4. Other details	
• Course Syllabus & Examination Scheme	5
• Inaugural Session Photo	6
• List of students enrolled for the certificate course	7
• Student Attendance particulars	8 & 9
• Multiple choice question paper and Key	10 to 17
• Marks obtained	18
• Valedictory photos	19
• Conclusion	20

## MINUTES OF THE MEETING

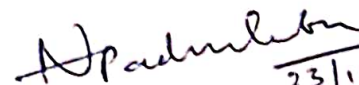
The Department of Physics held a meeting on 23-11-2021 and passed a resolution to organize Certificate Course in Instrumentation Basics and Technical Skill Development under the guidance of Sri GSrinivasa Rao. The other staff members of the Department


Smt N V R D Padma Lata were present in the meeting. The course was planned to be held for 30 working hours. The certificate course was organized from 24-11-2021 to 28-12-2021 for the academic year

### Signature of the staff members:

Sri G.Srinivasa Rao                      Lecturer in Physics & Incharge of the Department  23/11/21

Smt NVRD Padma Lata                      Contract Lecturer in Physics

 23/11/21

 23/11/2021  
Signature of the Principal

PRINCIPAL  
Sri. A.S.N.M. Govt. College (Autonomous)  
PALAKOL - 534260 (W.G.Dist.)



## **Report on Certificate Course**

### **Introduction**

Department of Physics conducted a certificate course in Instrumentation Basics and Technical Skill Development during the year 2020-21 under curriculum enrichment programme. It is important for physics students to Understand the basic working principles of important electrical and electronic circuit components. This can help the students handle simple electrical circuits in household and also in the laboratory.

### **Objectives**

- Familiarisation of electronics circuit components
- Characteristics of AC and DC signals
- Familiarisation of DC power supplies
- BreadBoard, Soldering Techniques
- Construction and working of simple electronic circuits

### **Expected outcomes of program**

- Understand the basic working principles of important electrical and electronic circuit components.
- Troubleshooting the laboratory equipments.
- Develop the skill of simple electronic circuit fabrication and instrumentation.

**Course Title: Instrumentation Basics and Technical Skill Development**

### **Course Objectives:**

- Understand the basic working principles of important electrical and electronic circuit components.
- Troubleshooting the laboratory equipments.
- Develop the skill of simple electronic circuit fabrication and instrumentation.



## Syllabus

Module 1: Familiarisation of electronics circuit components - Resistor, Capacitor, Diodes, Transistor, Inductor, Integrated Circuits.

Module 2: Characteristics of AC and DC signals.

Module 3: Familiarisation of Cathode ray oscilloscope, Ammeter, Voltmeter, DC power supplies, AC signal generator, CRO.

Module 4: Electronics circuit fabrication basics- BreadBoard, Soldering Techniques.

Module 5: Construction and working of simple electronic circuits- Rectifier, voltage regulator, Amplifier, Oscillator, Multivibrator.

Total Hours: 30

Examination Scheme: Exam contain 25 multiple choice questions each one carry 2 marks.

Eligibility: III B.Sc Physics students are eligible to enroll for the course.

No. of Seats: 20

Quality Assurance Mechanism: The quality of the course will be ensured through continuous evaluation of feedback from students and course coordinator by IQAC of the college.

This proposal is placed before BOS committee for syllabus approval.

Committee Members



Dr. N.M.D. Padmalatha

BOS Chairman



Sri G. SRINIVASA RAO

**SRI A.S.N.M GOVERNMENT COLLEGE (A),  
PALAKOL, W.G.DT.**

**DEPARTMENT OF COMPUTER SCIENCE**

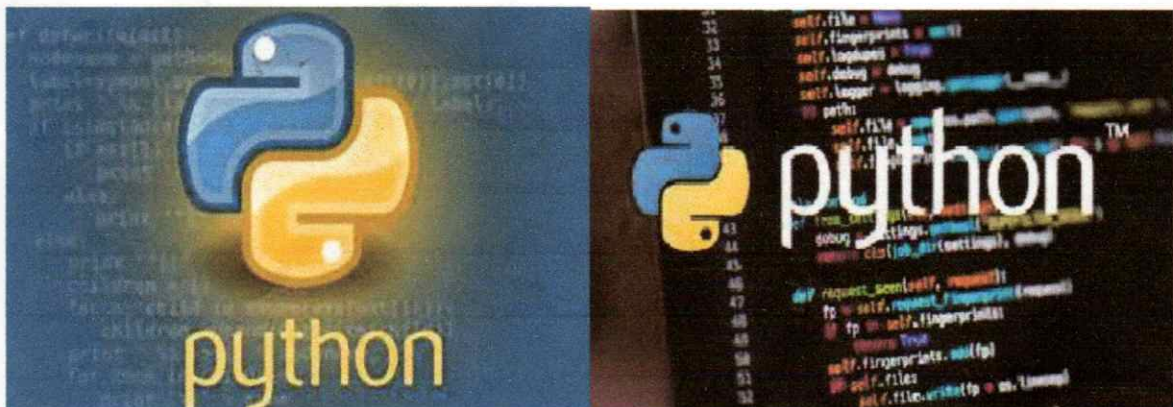
**CERTIFICATE COURSE IN COMPUTER SCIENCE**

**(2020-2021)**

**“Introduction to Python programming”**

**COURSE COORDINATOR**

**K. BHADRACHALAM M.Tech., Lecturer In-Charge**



## **CONTENTS**

	<b>Page No.</b>
<b>1. Minutes of the meeting</b>	<b>03</b>
<b>2. Report on Certificate course</b>	<b>04</b>
<b>3. Course Objectives</b>	<b>04</b>
<b>4. Course Outcomes of specific outcomes</b>	<b>04</b>
<b>5. Other details</b>	
i. List of students enrolled & Attendance particulars	<b>5 - 6</b>
ii. Course Syllabus	<b>7</b>
iii. Multiple choice question paper & Key	<b>8-12</b>
iv. Marks Obtained , Other details	<b>13</b>
v. Conclusion & References & Photos	<b>14</b>
vi. Sample Certificate	<b>15</b>

### Minutes of the meeting

The Department of **Computers** staff held meeting on 22-11-2021 and passed resolution to organize certificate course on trended technology i.e, Introduction to Python Programming under the guidelines of K. Bhadrachalam, Lecturer In-Charge in Computer Science for 30 working days.

The certificate course in **Introduction to Python Programming** was organized from 24-11-2021 to 28-12-2021 for the academic year 2020-2021 to the III B.Sc.MPCs students under curriculum enrichment programme.

#### Signature of the staff members:

**K. Bhadrachalam**, Lecturer In-Charge in Computers

*K. Bhadrachalam*  
22/11/2021

**Ch. Ravi Kumar**, Contract lecturer in Computers

*Ch. Ravi Kumar*

*22/11/2021*

Signature of the principal

PRINCIPAL (A)  
Sri A.S.N.M. GOVT. COLLEGE (A)  
PALAKOL-534 260, W.G.DIST.