


# Krishna Mahavidyalaya, Rethare Bk.

## Department of Mathematics

### Departmental Activities (2017-18 to 2021-22)

Year	Activity No.	Date	No. of Beneficiaries	Name of Activity	Topic/Title	Name of Teacher
2021-22	1	22/12/2021	31	Celebration of Birth Anniversary	Srinivas Ramanujan	Mr. Patil H V & Mr. Tawade S. S.
	2	13/04/2022	30	One Day Seminar	Applications of Mathematics in Real World'	Mr. Patil H V & Mr. Kale M J
	3	02/12/2021 to 18/12/2021	18	Certificate Course	Certificate Course in Operation Research	Mr. Patil H V, Miss. Sawant R S, Mr. Kale M J & Mr. Tawade S. S.
2020-21	1	31/08/2020	423	One Day National e-Seminar	The Role of Mathematics & Computer Science in Artificial Intelligence (AI) and Machine Learning (ML)	Mr. Patil H V & Mr. Tawade S. S.
	2	17/12/2020	58	One Day e-Seminar under Lead College activity	Recent Trends in Fuzzy Mathematics	Mr. Patil H V & Mr. Tawade S. S.
	3	22/12/2020	24	Celebration of Birth Anniversary	Srinivas Ramanujan	Mr. Patil H V & Mr. Tawade S. S.
	4	05/03/2021	24	Quiz Competition on National Science Day	Quiz Competition	Mr. Patil H V & Mr. Tawade S. S.
2019-20	1	28/09/2019 to 12/10/2019	23	Students Seminar	Students Seminar	Mr. Patil H V & Mr. Kale M. J.
	2	10/01/2020, 21/01/2020 and 24/01/2020	77	Mathematical Quiz Competition 2020	Mathematical Quiz Competition 2020	Mr. Patil H V & Miss. Sawant R. S.
	3	15/01/2020 to 15/02/2020	28	Certificate Course in Mathematical Software	Scilab	Mr. Patil H V & Miss. Sawant R. S.
2018-19	1	07/02/2019	21	Certificate Course in Mathematical Software	Scilab	Mr. Patil H V & Miss. Sawant R. S.
2017-18	1	03/01/2018	90	One Day Workshop under Lead College activity	Ancient Mathematics	Mr. Patil H V & Mr. Kale M. J.

  
 Head of Dept. of Mathematics  
 Krishna Mahavidyalaya Rethare Bk

Krishna Mahavidyalaya, Rethare Bk

## IQAC 2018-2019

ACTIVITY REPORT  
MATHEMETICS DEPARTMENT/ COMMITTEE/ FACULTY

IQAC ACTIVITY No: 01

NAME OF THE ACTIVITY:			
DATE	FACULTY	DEPARTMENT/COMMITTEE	COORDINATOR NAME
13/02/2019 to 11/03/2019	Mr. H. V. Patil & Miss. R. S. Sawant	Mathematics	Mr. Sawant R. S.
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor
09.00 a.m. to 11.00 a.m.	Department of Mathematics	21	Indoor
SUPPORT/ASSISTANCE:			

BRIEF INFORMATION ABOUT THE ACTIVITY (CRITERION NO. -):

TOPIC/SUBJECT OF THE ACTIVITY	Certificate Course in Mathematical Software (Scilab)
OBJECTIVES	<ul style="list-style-type: none"> <li>To increase student's interest in Mathematical Software</li> <li>To develop computer programs and programming skill</li> <li>To develop logical and mathematical thinking.</li> </ul>
METHODOLOGY	Periods and Practical's
OUTCOMES	<p>The Certificate Course in Mathematical Software helps the students.</p> <ul style="list-style-type: none"> <li>In learning free source software Scilab</li> <li>In creating interest in the Mathematics and Software.</li> <li>In developing computer programs and programming skill</li> </ul>

PROOFS &amp; DOCUMENTS ATTACHED (Tick mark the proofs attached):

1. Notice & Letters	2. Student list	3. Activity report	4. Photos -	5. Feedback form -
6. Feedback analysis =	7. News clip with details -	8. Certificate -	9. Any other -	-

IQAC CELL ACTIVITY NUMBER: 

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	<del>VICE-PRINCIPALS</del> SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
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Head of Dept. of Mathematics  
Krishna Mahavidyalaya Rethare BK.

PRINCIPAL  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD

IQAC, Coordinator,  
KRISHNA MAHAVIDYALAYA,  
Rethare Bk; Shivnagar - 415108  
Tal. Karad, Dist. Satara

# Krishna Mahavidyalaya, Rehtare Bk.

## Department of Mathematics

Activity Report 2018 - 19

### 'Certificate Course in Mathematical Software (Scilab)'

Department of mathematics introduce a Certificate Course in Mathematical Software (Scilab) for B. Sc. Mathematics students from Feb. 13, 2019 with limited 25 students on first come first serve basis. Total 21 students are enrolled for this course.

The main aim of this course is to learn free and open-source software tool – Scilab. It enables the students to explore mathematical concepts and verify mathematical facts through the use of software and also enhance the skills in programming. On successful completion of this course the students should be able to show proficiency in using the software Scilab, understand the use of various techniques of the software for effectively doing mathematics, obtain necessary skills in programming, understanding the applications of mathematics and utilize the software knowledge for their career and higher studies.

In this course Mr. H. V. Patil, Miss Sawant R. S. and Mr. Mujawar S. I. from Department of Mathematics completed prescribed syllabus by delivering their respective lectures and practical's within in 30 periods. Total 20 students are successfully completed this course. This course helps the students for their further study and career.


  
Head of Dept. of Mathematics  
Krishna Mahavidyalaya Rehtare Bk.


Department of Mathematics

07th Feb 2019

NOTICE

Department of Mathematics and statistics is organizing certificate course in Scilab for B.sc. students from 13th Feb 2019. The course is only for 25 students, students will be selected on a first come first serve basis. please, register yourself for the course as early as possible before 11th Feb 2019.

  
Head of Dept. of Mathematics  
Krishna Mahavidyalaya Rethare BK

  
7/2/19  
Dr. C. B. Salunkhe  
PRINCIPAL  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD

B.Sc II 11.00 - 2.20 PM (Maths) Saunke

B.Sc-I 1.30 - 2.20 PM (math's) Prinwar

B.Sc III 12.40 to 1.30. Maths Prinwar

Department of Mathematics  
24<sup>th</sup> Jan 2019

To,

The Principal,  
Krishna Mahavidyalaya, Rethore Bk.

Sub: Submission of course duration and syllabus

of   
Respected sir,

I am submitting the Title, duration  
and syllabus of the course (certificate  
course in scilab) for mathematics students.  
Please consider the same.  
Thanking you.

Yours faithfully,

  
(Patil H.V.)

Head of Dept. of Mathematics  
Krishna Mahavidyalaya Rethore

~~Patil H.V.~~  
24/1/19  
Bor Patil

## Department Of Mathematics

**Title of Course :** Certificate Course In Scilab.

**Duration :** Two Weeks (Theory & Practicals, 20 hours )

**Course Objective :** This course is a foundation for introducing to free and open source software tool – Scilab. It enables the students to explore mathematical concepts and verify mathematical facts through the use of software and also enhance the skills in programming.

**Course Outcomes :** On successful completion of the course the students should be able to

- Show proficiency in using the software Scilab
- Understand the use of various techniques of the software for effectively doing mathematics
- Obtain necessary skills in programming
- Make students understand the applications of mathematics
- Utilize the software knowledge for academic research

**Course Syllabus :**

### Unit 1. Basic Elements of the language

- 1.1 Creating real variables
- 1.2 Variable name
- 1.3 Comment and continuation lines
- 1.4 Elementary mathematical function
- 1.5 Complex number

### Unit 2 .Matrices

- 2.1 Create a matrix of real values
- 2.2 The empty matrix []
- 2.3 Accessing the element of a matrix
- 2.4 The colon ":" operator
- 2.5 The dollar "\$" operator
- 2.6 Element wise operator

### Unit 3. Looping and branching

- 3.1 The if statement
- 3.2 The Select statement
- 3.3 The for statement

### Unit 4. Function

- 4.1 Defining a function
- 4.2 Function libraries

### Unit 5.


- 5.1 2D plot
- 5.2 Title, axis and legends

**Practicals :**

1. Finding the roots of the quadratic equations.
2. Calculating determinant
3. Product and inverse of matrices
4. Conditional statement and loops: if statement , the "for" loop 2D plotting of different curves
5. 2D plotting of different curves

**References:**

1. M.Baudin: Introduction to Scilab, The scilab Consortium – Digiteo, 2010 <http://www.scilab.org>.
2. Atlas- automatically turned linear algebra software <http://math-atlas.sourceforge.net>.
3. Cecill and free software <http://www.cecill.info>.

  
Head of Dept. of Mathematics  
Krishna Mahavidyalaya Retnare B.

# Department Of Mathematics

## Certificate course in 'SCILAB'

Time : 9:00 a.m. to 11:00 a.m.

Sr.N.	Name Of Student	13/02/19	14/02/19	15/02/19	16/02/19	18/02/19	20/02/19	21/02/19	22/02/19	23/02/19	25/02/19
1	*Jadhav P.B	Feedhav	Feedhav	Feedhav	AB	Feedhav	Feedhav	Feedhav	Feedhav	Feedhav	Feedhav
2	*Pawar P.P	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
3	*Shikalgar S.H	Shikalgar	Shikalgar	Shikalgar	Ab	Shikalgar	Shikalgar	Shikalgar	Shikalgar	Shikalgar	Shikalgar
4	*Shinde P.R	Shinde	Shinde	Shinde	Ab	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
5	*Shinde R.S	Shinde	Shinde	Shinde	Ab	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
6	*Mane P.D	P.D.mane	P.D.mane	P.D.mane	P.D.mane	P.D.mane	P.D.mane	P.D.mane	P.D.mane	P.D.mane	P.D.mane
7	*Mulla A.B	Bmulla	Bmulla	Bmulla	Bmulla	Bmulla	Bmulla	Bmulla	Bmulla	Bmulla	Bmulla
8	*Patil J.V	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
9	*Patil S.J	Baty	Baty	Baty	Patil	Baty	Baty	Baty	Baty	Baty	Baty
10	*Patil V.S	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
11	*Pawar V.D	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
12	*Pawar P.S	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
13	*Somde G.D	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
14	*Sutar M.S	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
15	*Thorat P.P	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
16	*Malavade L.P	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
17	*Mane K.V	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
18	*Pawar K.G	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
19	*Pawar N.N	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
20	*Pawar P.R	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
21	*Salunkhe P.P	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil

*[Signature]*

Head of Dept. of Mathematics  
Krishna Mahavidyalaya, Rehar, M.

# Department Of Mathematics

## Certificate course in 'SCILAB'

Sr.N.	Name Of Student	6/3/19	7/3/19	8/3/19	9-3-19	11-3-19
1	*Jadhav P.B	Badhal	Badhal	Badhal	Badhal	Badhal
2	*Pawar P.P	Ab	Ab	Ab	Ab	Ab
3	*Shikalgar S.H	Shikalgar	Shikalgar	Shikalgar	Shikalgar	Shikalgar
4	*Shinde P.R	Shinde	Shinde	Shinde	Shinde	Shinde
5	*Shinde R.S	Shinde	Shinde	Shinde	Shinde	Shinde
6	*Mane P.D	P.D mane	P.D mane	P.D mane	P.D mane	P.D mane
7	*Mulla A.B	Bimalla	Bimalla	Bimalla	Bimalla	Bimalla
8	*Patil J.V	Patil	Patil	Patil	Patil	Patil
9	*Patil S.J	Sati	Sati	Sati	Sati	Sati
10	*Patil V.S	Sati	Sati	Sati	Sati	Sati
11	*Pawar V.D	Prave	Prave	Prave	Prave	Prave
12	*Pawar P.S	P.Pawar	P.Pawar	P.Pawar	P.Pawar	P.Pawar
13	*Somde G.D	P.Somde	P.Somde	P.Somde	P.Somde	P.Somde
14	*Sutar M.S	P.Sutar	P.Sutar	P.Sutar	P.Sutar	P.Sutar
15	*Thorat P.P	P.Thorat	P.Thorat	P.Thorat	P.Thorat	P.Thorat
16	*Malavade L.P	Ab	Ab	Ab	Ab	Ab
17	*Mane K.V	Ab	Ab	Ab	Ab	Ab
18	*Pawar K.G	Ab	Ab	Ab	Ab	Ab
19	*Pawar N.N	Ab	Ab	Ab	Ab	Ab
20	*Pawar P.R	Ab	Ab	Ab	Ab	Ab
21	*Salunkhe P.P	Ab	Ab	Ab	Ab	Ab

Head of Dept. of Mathematics  
Krishna Mahavidyalaya, Retihare, B.



SHETKARI SHIKSHAN PRASARAK MANDAL'S

KRISHNA MAHA VIDYALAYA, RETHARE BK.



CERTIFICATE

This is to certify that, Mr./Miss Pawar Varsha Dilip, B.Sc-II has successfully completed Certificate Course in 'Mathematical Software(Scilab)' organized by the Department of Mathematics, Krishna Mahavidyalaya, Rethare Bk. in the academic year 2018-19.

Mr. S. J. Mujawar

Co-Ordinator  
Department Of Mathematics

Miss. R. S. Sawant

Co-Ordinator  
Department Of Mathematics

Mr. H. V. Patil

Head,  
Department of Mathematics

Dr. C. B. Safunkhe

Principal  
Krishna Mahavidyalaya  
Rethare Bk.

SHETKARI SHIKSHAN PRASARAK MANDAL'S

KRISHNA MAHA VIDYALAYA, RETHARE BK.



CERTIFICATE

This is to certify that, Mr./Miss Somade Gitanjali Dipak, B.Sc-II. has successfully completed Certificate Course in 'Mathematical Software(Scilab)' organized by the Department of Mathematics, Krishna Mahavidyalaya, Rethare Bk. in the academic year 2018-19.

*Mujawar*

Mr. S. I. Mujawar

Co-Ordinator  
Department Of Mathematics

*Sawant*

Miss. R. S. Sawant

Co-Ordinator  
Department Of Mathematics

*H. V. Patil*

Mr. H. V. Patil

Head,  
Department of Mathematics

*Safunkhe*

Dr. C. B. Safunkhe

Principal  
Krishna Mahavidyalaya  
Rethare Bk.