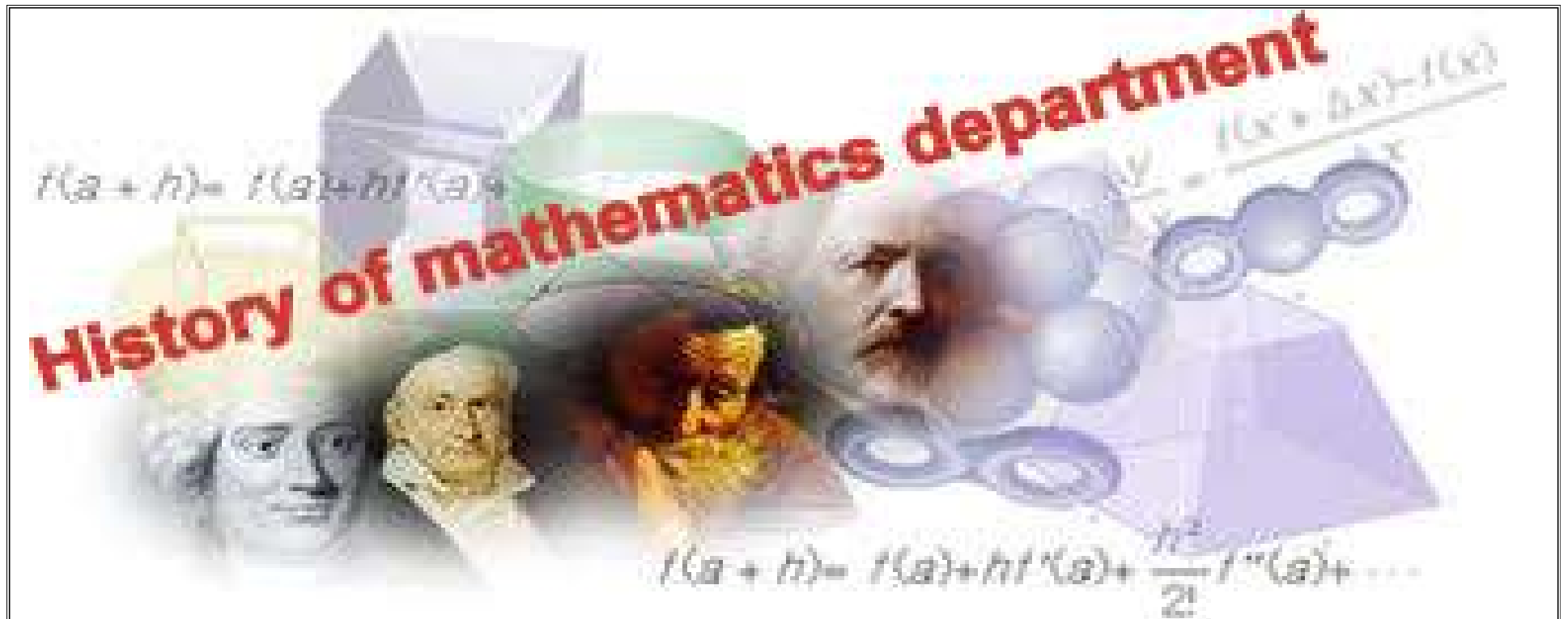


DEPARTMENT OF

MATHEMATICS





- ⦿ The department of mathematics has been in existence since the inception of the institution way back in 1960.
- ⦿ The department imparts education of mathematics for B.Sc. degree.

Course Available (B.Sc.)

Semester	Core Compulsory	Name of the Subject
Semester-I	(CC MAT-111) (PC MAT-111) (ES MAT -111)	Calculus & Matrix Algebra Practical Set Theory & Functions

Semester	Core Compulsory	Name of the Subject
Semester-II	(CC MAT-122)	Differential Equation & Co-ordinate Geometry
	(PC MAT-122)	Practical
	(ES MAT -12)	Industrial Mathematics-I

Semester	Core Compulsory	Name of the Subject
Semester-III	(CC MAT-301)	Calculus and Linear Algebra
	(CC MAT-302)	Numerical Analysis
	(PC MAT-301)	Practical on Calculus and Linear Algebra
	(PC MAT-302)	Practical on Numerical Analysis
	(ES MAT -21)	Business Mathematics-I

Semester	Core Compulsory	Name of the Subject
Semester-IV	(CC MAT-401)	Advanced Calculus
	(CC MAT-402)	Advanced Linear Algebra
	(PC MAT-401)	Practical on Advanced Calculus and Linear Algebra
	(PC MAT-402)	Practical on Advanced Numerical Analysis
	(ES MAT -22)	Business Mathematics-II

Semester	Core Compulsory	Name of the Subject
Semester-V	(CC MAT-501) (CC MAT-502) (CC MAT-503) (CC MAT-504) (PC MAT-501) (PC MAT-502) (PC MAT-503) (PC MAT-504) (ES MAT -31)	Group Theory Mathematical Analysis-I Differential Equations Operation Research- Introduction to MATLAB Polynomials MATLAB Graphics Symbolic Processing with MATLAB Business Mathematics-III

Semester	Core Compulsory	Name of the Subject
Semester-VI	(CC MAT-601) (CC MAT-602) (CC MAT-603) (CC MAT-604) (PC MAT-601) (PC MAT-602) (PC MAT-603) (PC MAT-604) (ES MAT -32)	Abstract Algebra Mathematical Analysis-II General Topology Operation Research-II Input-Output Statements in MATLAB Programming Techniques MATLAB Applications Practical Using MATLAB Programming Business Mathematics-IV

INFRASTRUCTURE

□ PHYSICAL INFRASTRUCTURE

- Staff room with a built up area 7.48 Sq Meter
- Computer Laboratory with built up area 81.04 Sq. Meter.

ACADEMIC INFRASTRUCTURE

- **Department has PC with internet facility and printer.**

- **Mathematics Laboratory:**
 - ❖ **Equipped with Computers: 26**
 - ❖ **Printer : 01**
 - ❖ **Scientific calci :09**
 - ❖ **Scanar:01**
 - ❖ **Classroom with ICT facility**

LIBRARY RESOURCES

- ◎ **Number of Books in the Library -1133**
- ◎ **Number of Journals & Periodicals in the Library– 05**
- ◎ **Number of CDs in the Dept. – 30**



TEACHING / NON TEACHING FACULTIES



Dr. V.R.Patel
Head & Assistant
Professor
M.Sc., B.Ed.,
M.Phil., Ph.D.
09 –YEARS
Experience at UG



**Miss
B.L.Prajapati**
Assistant
Professor
M.Sc.
01–YEAR
Experience



**Miss
A.V. Gajera**
Assistant
Professor
M.Sc.
01–YEAR
Experience



Mr. K.R.Patel
Computer
Operator
D.C.A
M.A, B.ED

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STUDENT -TEACHER RATIO (PROGRAMME WISE)

Year	Programme	No of Students of Department (X)	No of Teachers of Department (Y)	Students-Teacher Ratio (X/Y)
2011-2012	B Sc	231	1+1	115:1
2012-2013	B Sc	269	1+2	89:1
2013-2014	B Sc	305	1+2	101:1
2014-2015	B Sc	302	1+2	100:1
2015-2016	B Sc	272	1+2	91:1
2016-2017	B Sc	285	1+2	95:1

ACHIEVEMENTS OF FACULTIES

SEMINAR/WORSHOP/CONFERENCE

NAME	TOTAL
DR. V.R.PATEL	25
D:\AAA\Conference Attended.docx	
MISS.B.L.PRAJAPATI	01
D:\AAA\Workshop Attended BHAGVATI.docx	
MISS.A.V.GAJERA	01
D:\AAA\Workshop attended ARPITA.docx	
MR.KALPESH.R.PATEL	02
D:\AAA\Workshop Attended KALPESH.docx	

Book published

NAME	TOTAL
DR. V.R.PATEL	04
D:\AAA\list of book.docx	
MISS.B.L.PRAJAPATI	...
MISS.A.V.GAJERA	...

Research paperS

NAME	PUBLISHED	PRESENTED International / National
DR.V.R.PATEL	03	02

D:\AAA\DETAILS OF PAPERS.DOCX

D:\AAA\INTERNATIONAL CONFERENCE PAPER PRESENTATION.DOCX

- ◉ Member Of Board Of Studies: 1 Faculty
- ◉ Life Member Of Gujarat Ganit Mandal and Indian Mathematical Society: 1 Faculty
- ◉ Member of various committee : All faculties

Teaching Methodology

➤ PPT presentation through Audio-Visual aids

➤ OHP

➤ Models

➤ Charts

➤ Live & recorded video lecturers of Sandhan

➤ Assignments

➤ Seminars

➤ Group Discussion

➤ Active participation through Question Answering

➤ Unit Test, Surprised Test

➤ Quiz

ACTIVITIES

1. Wall Paper Display
2. Teacher's Day Celebration
3. Chart paper & Model making
4. Poster Presentation
5. Wall Painting
6. Swachhta Abhiyan
7. Expert lecture

WALL PAPER DISPLAY

Mathematics **NOTICE BOARD** **TITLE**

tifr **National Centre for Mathematics**
A joint centre of TIFR and IIT Bombay

**Advanced Training in Mathematics:
Schools and Workshops**
Sponsored by National Board for Higher Mathematics

Programmes in 2012

Programme	Topic	Faculty
ATM	Algebra	Dr. S. R. Gajjala
ATM	Geometry	Dr. S. R. Gajjala
ATM	Calculus	Dr. S. R. Gajjala
ATM	Number Theory	Dr. S. R. Gajjala
ATM	Combinatorics	Dr. S. R. Gajjala
ATM	Probability	Dr. S. R. Gajjala
ATM	Statistics	Dr. S. R. Gajjala
ATM	Discrete Mathematics	Dr. S. R. Gajjala
ATM	Graph Theory	Dr. S. R. Gajjala
ATM	Group Theory	Dr. S. R. Gajjala
ATM	Ring Theory	Dr. S. R. Gajjala
ATM	Field Theory	Dr. S. R. Gajjala
ATM	Linear Algebra	Dr. S. R. Gajjala
ATM	Matrix Theory	Dr. S. R. Gajjala
ATM	Vector Spaces	Dr. S. R. Gajjala
ATM	Linear Transformations	Dr. S. R. Gajjala
ATM	Eigenvalues and Eigenvectors	Dr. S. R. Gajjala
ATM	Quadratic Equations	Dr. S. R. Gajjala
ATM	Quadratic Functions	Dr. S. R. Gajjala
ATM	Quadratic Equations in Two Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Three Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Four Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Five Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Six Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Seven Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Eight Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Nine Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Ten Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Eleven Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Twelve Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Thirteen Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Fourteen Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Fifteen Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Sixteen Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Seventeen Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Eighteen Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Nineteen Variables	Dr. S. R. Gajjala
ATM	Quadratic Equations in Twenty Variables	Dr. S. R. Gajjala

For more information, details and registration for the programme please visit www.atmschools.org/2012

Six P.T. Science College, Modasa

Graph of Functions

$Y = x$ $Y = x^2$ $Y = x^3$ $Y = \sin x$

$Y = \cos x$ $Y = \tan x$ $Y = \cot x$ $Y = \frac{1}{x}$

$Y = |x|$ $Y = \log_a x$ $Y = a^x$ $x^2 + y^2 = a^2$

By: Bhavsar Divya K. (5404)
Pokus Maital P. (5444)
Pranav Simu D. (5444)

TEACHER'S DAY CELEBRATION



CHART PAPER MAKING



POSTER PRESENTATION



WALL PAINTING



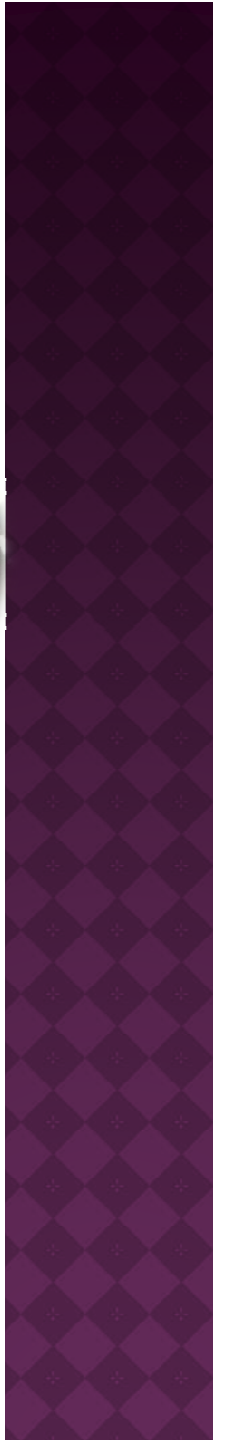
SWACHHATA ABHIYAN



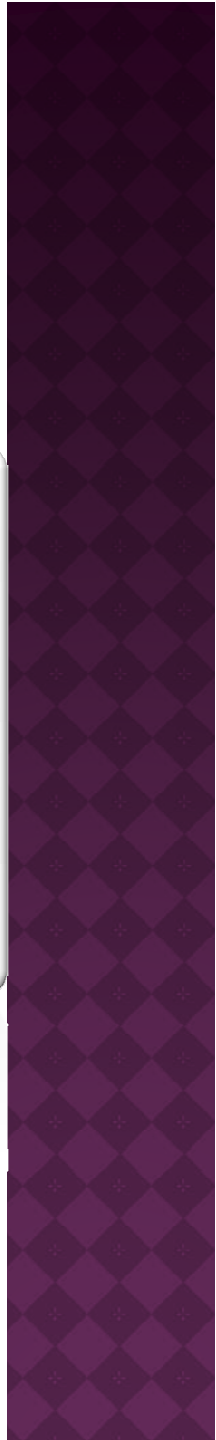
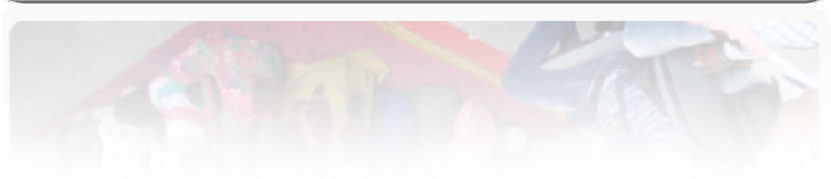
Book exhibition



SEMINAR



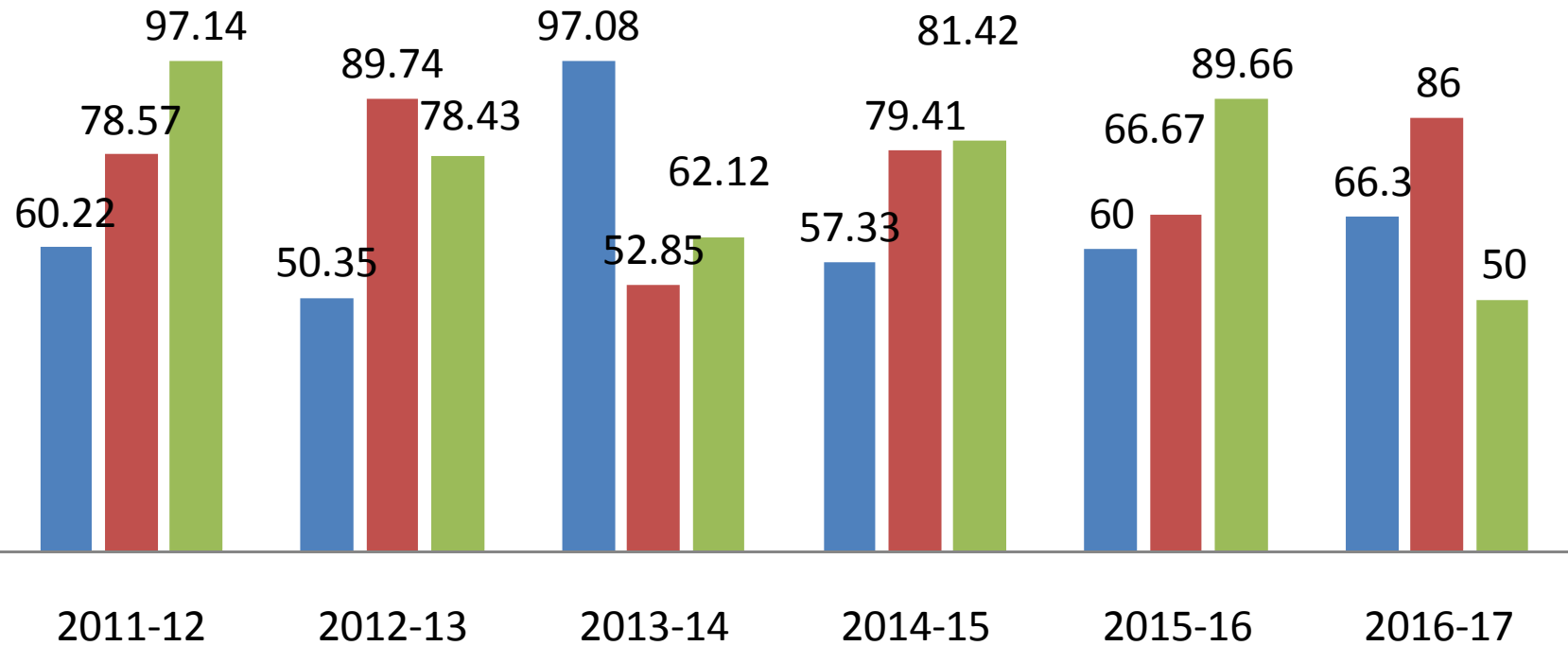
RECORDED VIDEO LECTURERS OF SANDHAN




RESULTS IN THE UNIVERSITY EXAM





Chart Title

F.Y.B.Sc. S.Y.B.Sc. T.Y.B.Sc.

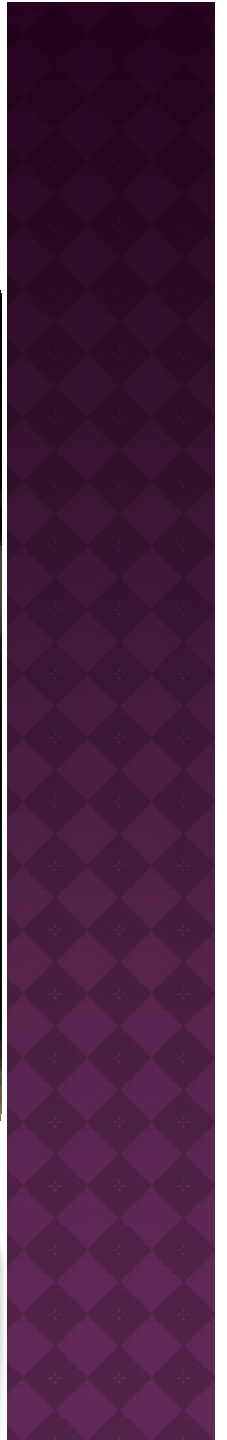




ACHIEVEMENTS
OF STUDENTS

NAME OF STUDENT	ACHIEVEMENT
MISS K.P.PATEL 	NET & GATE D:\AAA\krishna\IMG-20160625-WA0002.jpg D:\AAA\krishna\IMG-20160625-WA0001.jpg
MR.K.R.BALEVIYA 	NET D:\AAA\NET.jpg
MISS B.L.PRAJAPATI 	Adhoc LECT. AT-SCIENCE COLLEGE MODASA
MISS A.V.GAJERA 	Adhoc LECT. AT SCIENCE COLLEGE MODASA
MR.J.K.PARMAR	Adhoc LECT. AT-SCIENCE COLLEGE TAKHATPUR
MR.K.H.MEHATA	I/C PRI. AT SCIENCE KAKANPUR (GODHARA)

GET FIRST PRIZE IN QUIZE IN INTER STATE COMPETITION



RESULT OF TOPPERS STUDENTS IN COLLEGE (MATHEMATICS)

Year	Name of the Students	Class	Rank in CLG
2011-2012	Rohan.A.Patel	T.Y.B.Sc.	FIRST
2012-2013	Sonu.L.Daiya	T.Y.B.Sc.	FIRST
2013-2014	Ripal.Prajapati	T.Y.B.Sc.	FIRST
2014-2015	Hani.R.Patel	T.Y.B.Sc.	FIRST
2015-2016	Maherbanu.I.Meghraji	T.Y.B.Sc.	FIRST
2016-2017	Patiwala Majvinabanu	T.Y.B.Sc.	FIRST



DETAILS ON STUDENT ENRICHMENT PROGRAMME

No.	Date	Programme	Title	Expert
1	29/12/2014	GYANSATRA	Operation Research	Prof.N.V.PATEL
2	22/01/2016	GYANSATRA	Group Theory	DR.K.A.PATEL



HIGHLIGHT OF THE DEPARTMENT

Gujarat Ganit Mandal
held on
25-27, December, 2009,
funded by
Gujarat Ganit Mandal & GUJCOST.



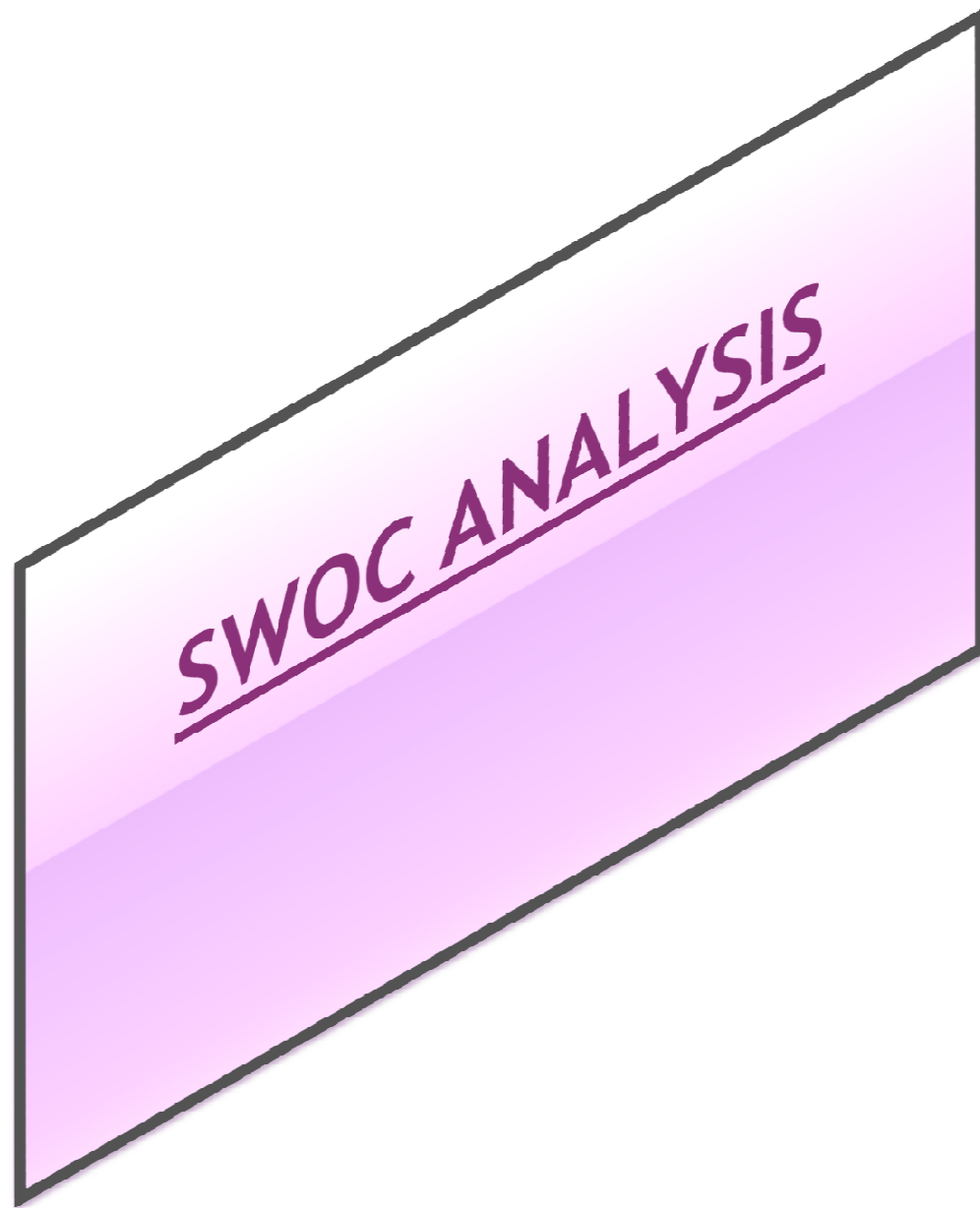
GUJARAT GANIT MANDAL





GUJ.GANIT MANDAL SPEAKERS





SWOC ANALYSIS



STRENGTH OF DEPARTMENT

- ⦿ In our district, our college is only to run mathematics subject which is very beneficial for students from surrounding rural areas.
- ⦿ Faculty member engaged with Ph.D work.
- ⦿ ICT facility is available for modern learning.

WEAKNESS OF DEPARTMENT

- ⦿ More staff members are required
(Assis.Prof., Computer-operator, peon)
- ⦿ More software's of mathematics like –
Maple, Mathematica are required

OPPORTUNITY

- ◎ students can preparing for competitive examinations like NET,SET,GATE,Banking etc. under the guidance of Professors and by use of well equipped library, internet facilities.
- ◎ The knowledge of mathematical software can useful in real life problems, business, Industries.

CHALLENGES

- ⦿ The strength of students is increasing day by day.
- ⦿ Due to subject up gradation, the faculty member have to be prepare

FUTURE PLANS

- ◉ To organize workshop for developing practical skill of students.
- ◉ To purchase MATLAB software.
- ◉ Frantically waiting for the qualified, deserving and efficient staff



THANK YOU