

ADARSH SHIKSHAN SANSTHA BEED

**KALIKADEVI ARTS, COMM. & SCI.
COLLEGE TQ, SHIRUR (KA) DIST- BEED**



**DEPARTMENT PROFILE
OF MATHEMATICS**

PROFILE OF DEPARTMENT

INTRODUCTION:-

Mathematics play important role in the development of human life. The department of mathematics of Kalikadevi Arts, commerce & Science College, shirur-kasar was established in **July 2004**. Department of Mathematics and is offering B.Sc. Mathematics degree course under UG program since **2004** is Affiliated to Dr. Babasaheb Ambedkar Marathwda University, Aurangabad Now the department has **one** full time faculty members and **Two** C.H.B teaching faculty C.H.B .The department has succeeded in this endeavours. It has produced highly qualified and motivated mathematicians to provide leadership in educational institutions. Graduate of this department are distinctively placed in reputed institutions and organizations. Department motivates and ignites the minds of students through several co-curricular and extracurricular activities of students.

Vision:-

1. To achieve a high standard of excellence in generating and disseminating knowledge in mathematics.
2. Imparting quality mathematics education and inculcating the spirit of research through innovative teaching and research methodologies.
3. To develop the ability to apply mathematical knowledge to solve problems in real life situations.
4. To provide an environment where students can learn become competent users of mathematics, and understand the use of mathematics in other disciplines.
5. To develop the analytical, logical thinking, and problem solving abilities of students.

Mission:-

1. To make students aware of technology to explore mathematical concepts through activity and experimentation.
2. To provide students with knowledge and insight in mathematics.
3. To prepare them to pursue higher studies.
4. to produce UG graduate students with a strong foundation to join research. Or to serve in the industry.
5. To work towards the transformation of students to competent and motivated professions with sound theoretical and applied knowledge.

AIM of department:-

1. To create and impart knowledge of Mathematics among the students.
2. To develop the mathematical attitude in the minds of students.
3. To clear basic concepts and aware of the learning process in mathematics
4. To provide a stimulating teaching environment of graduate students of the department.
5. To make the students fit for society.

SCOPE & IMPORTANCE OF SUBJECT:-

Mathematics is a subject which has wide scope. It plays important role in in many disciplines. Mathematics has always been the language of science and technology. Mathematics is more the just a useful tool. Many. People enjoy mathematics for its own sake. The find deep satisfaction and indeed beauty in its order, precision and complex structures mathematics develops the skills of reasoning developing new ideas and formulating new approach and finally drawing logical conclusions in the working word. Mathematics have immense scope in government job also, mathematics degree graduates are respected for their excellent quantitative and problem solving abilities and win a wide range of rewarding positions in the public and private sectors. The has been an increase in the number of students. Studying maths being employed in the highest paying jobs are directly or indirectly related with mathematics.

Mathematics jobs are available in both government as well as private organizations. In the government sector mathematics graduates may consumed in government departments, semi-governments PSUs, and research organisations, technical branches, banking sectors, colleges and universities. Besides academics jobs, trained mathematicians are also engaged at good remuneration and package in Indian Space Research Organization (ISRO), Defence Research and Development Organization (DRDO), National Aeronautic Limited (NAL) and society for Electronic Transaction and security (SETS) Good opportunities are in specific areas such as financial mathematics and computing along with mathematics.

OBJECTIVES OF DEPARTMENT:-

1. To develop positive attitude among the students to wards instruction mathematics.
2. To develop analytical and logical acumen for problem solving.
3. To train the students for interdisciplinary applications.
4. To provide excellent information of mathematics for higher studies and suitable career.
5. To develop an appreciation for symbolic notations.

ROLE OF DEPARTMENT IN PROVIDING VALUE BASED EDUATION:-

1. National Mathematics day.
2. To publish wall papers.
3. To organize guest lectures.
4. Department Library.

YEAR OF ESTABLISHMENT: - 09 July 2004.

COURCES OFFERED: - GU

Admission Criterion	Course Name	Duration	Intake
12 th Science Mathematics	B.SC General Mathematics	3 Years	B.SC F.Y= 240 B.SC S.Y= 240 B.SC T.Y=120

➤ **COURSE STRUCTURE:-**

[I]. B.SC First Year (MATHEMATICS) Syllabus semester-I & II (First Year)

Choice Based Credit & Grading System [Curriculum will be progressively effective from the Academic Year 2022-2023 onwards **REF.NOSU/2022/6852-62 Date: 10/08/2022**]

[II]. B.SC Second Year (MATHEMATICS) Syllabus semester-III & IV (Second Year)

Semester Pattern [**Effective for-June, 2014-2015**].

[III]. B.SC Third Year (MATHEMATICS) Syllabus semester & VI (Third Year)

Semester Pattern [**Effective for-June, 2015-16**].

SR.NO	CLASS	SEMESTER	Paper Code	Paper No. Title of the papers
1	B.SC F.Y	I	MAT-101	Geometry- I
2	B.SC F.Y	I	MAT-102	Differential Calculus- II
3	B.SC S.Y	III	MAT-301	Number Theory - V
4	B.SC S.Y	III	MAT-302	Integral Transforms - VI
5	B.SC S.Y	III	MAT-303	Mechanics - VII
6	B.SC T.Y	V	MAT-501	Real Analysis- XI
7	B.SC T.Y	V	MAT-502	Abstract Algebra- XII
8	B.SC T.Y	V	MAT-504	Ordinary Differential Equation- XIII
9	B.SC F.Y	II	MAT-201	Number Theory- III
10	B.SC F.Y	II	MAT-202	Integral Calculus- IV
11	B.SC S.Y	IV	MAT-401	Numerical Methods- VIII
12	B.SC S.Y	IV	MAT-402	Partial Differential Equations- IX
13	B.SC S.Y	IV	MAT-403	Mechanics- X
14	B.SC T.Y	VI	MAT-601	Real Analysis- XIV
15	B.SC T.Y	VI	MAT-602	Abstract Algebra- XV
16	B.SC T.Y	VI	MAT-604	Ordinary Differential Equations - XVI

➤ **NO OF TEACHING POSTS :**

Designation	Available
Assistant Professor	Mr. GHADGE RAMESH BHASKARRAO
Part-Time Teacher	Mr. SUYOG NAVATH BADE (C.H.B)
	Mr. UMESH LAXMAN AGHAV (C.H.B)

➤ **FACULTY PROFILE WITH NAME, QUALIFICATION, DESIGNATION, AREA OF SPECIALIZATION, EXPERIENCE AND RESEARCH UNDER GUIDANCE:**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. Students guided for the last 4 years
Mr. GHADGE R.B	M.sc B.Ed. NET,	Asst.prof	MATHEMATICS	09	
Mr. BADE S.N	M.sc B.Ed. NET, SET	Asst.prof (C.H.B)	MATHEMATICS	02	
Mr. AGHAV U.L	M.sc B.Ed. NET	Asst.prof (C.H.B)	MATHEMATICS	02	

➤ **PUBLICATIONS:**

Name of the Faculty	Total No. of Publication	Chapter in Books	Books Edited	Seminar/ Conference Attended
Mr.GHADGE R.B	08	NIL	02	16

➤ **IMPORTANT RATIOS:**

Sr. No.	Description Ratio	
1	Teacher-Student Ratio	85 (2022-23)
2	Teacher-Research Scholar Ratio	

➤ **PARTICIPATION OF FACULTY IN ACADEMIC EVENTS ORGANIZED BY UNIVERSITIES / OTHER INSTITUTIONS :**

Sr. No.	Academic Events Attended	Papers presented	Sessions chaired
1	Conferences	07	
2	Seminars	00	
3	Workshops	01	
4	Symposia	00	
5	F D Programmes	02	
6	Total	10	

➤ **DOCTORAL GUIDANCE:**

Sr. No	Description	Total
1	Enrolment of Ph. D. students (during the last years)	
2	Ph. D. degree awarded to students (during the last 5 years)	
3	Pursuing Ph.D (as on date)	

➤ **AWARDS RECEIVED BY THE FACULTY MEMBERS:**

Sr. No.	Name of Faculty	No. of State Level Awards	No. of National Level Awards	No. of International Level Awards
	Mr.Ghadge R.B	NIL	NIL	NIL

➤ **RESEARCH PROJECTS :**

S. No.	Title of the project	Major/ Minor/ Other Projects	Period of the Project		Funding Agency UGC/ICSSR /AICTE/ Others	Amount of fund
			From	To		
			NIL			

➤ **SEMINARS/ CONFERENCES/WORKSHOPS ORGANIZED AND THE SOURCE OF FUNDING (In Last Three Years)**

Sr. No	National / International, Seminars / Conferences /Workshops Organized	Source Of Funding	Year
1	Application to cryptography Number of Theory Theoretic Function	Self	5 July-2021
2	A systems numerical methods of first order ordinary differential equations	Self	21 Dec-2021

➤ **DETAILS OF MOUS AND LINKAGES:**

Sr. No	Organization	Nature of Collaboration Research/Faculty Exchange /Student Exchange/Others	Year
1	Please mention Name of the University	NIL	
2	Please mention Name of the Institutions	NIL	
3	Please mention Name of the Research Centres	NIL	
4	Please mention Name of the Industry	NIL	
5	Please mention Name of the Any Other organization	NIL	

➤ **STUDENT PROFILE PROGRAM-WISE:**

Name of the Course/Programme	Enrolled (2022-2023)	
	Male	Female
First Year	76	63
Second Year	56	37
Third Year	13	10

➤ **TEACHING METHODS ADOPTED TO IMPROVE STUDENT LEARNING**

We taught to students through traditional method and modern method also. We Use black board and new modern techniques e.i. Zoom Meeting, Google Meet, And power point presentation.

➤ **STUDENTS' PERFORMANCE EVALUATION**

We have to use evaluate students through various methods e. i. Group discussion, Seminar,

➤ **COURSE OUT COME**

The is highest paying jobs are directly or indirectly related with mathematics. Mathematics jobs are available in both government as well as private organizations. In the government sector, mathematics graduates may consumed in government departments, semi-governments, PSUs, research organizations, technical branches, banking sectors, colleges and universities. Besides academics jobs, trained mathematicians are also engaged at good remuneration and package in Indian Space Research Organization (ISRO), Defence Research and Development Organization (DRDO), National Aeronautic Limited (NAL) and Society for Electronic Transaction and Security (SETS). Good opportunities are in specific areas such as financial mathematics and computing along with mathematics.

Financial Mathematics is the booming area where one can get one of the best packages in the industry. IT giants like IBM and Microsoft hired candidates as scientists where salary is beyond your expectation.

Teaching is one of the most sought after profession after Ph.D. One may appointed as Assistant Professor, Associate Professor, Reader and Professor in colleges and universities. Schools also offer good jobs for mathematics graduate both in the government as well as in the private sector.

➤ **Top Job Opportunities in Mathematics**

Mathematics best job opportunities are available in the following disciplines.

1. Operation research analyst
2. Software engineers
3. Teaching
4. Computer system analyst
5. Banks
6. Mathematician

➤ **DETAILS OF INFRASTRUCTURAL FACILITIES**

Department Area Size: 12 X 10.6 =192 Square Foot

SR.NO.	HEAD OF DEAD STOCK	QUANTITY
1	TABLE	01
2	CHAIRS FIBER	02
3	STEEL KAPAT	01
4	ELECTRICAL BOARD	01
5	TUEB CFL	01
6	COMPUTER SET	01
7	CILLING FAN	01

➤ **DETAILS OF STUDENT ENRICHMENT PROGRAMMES:**

- To organizing Group Discussion.
- To organizing seminar class.
- To Organize A Guest Lecture.
- Poster wall Republic day 26 January
- National Mathematics Day celebration-22-December.
- State Level online Quiz competition to celebrate National Mathematics day-2022.
- Organize national seminar online zoom
- State Level online Quiz competition to celebrate National science -28 day.

LIST OF DISTINGUISHED ALUMNI:

Sr.No.	Name	Qualification	Present Position	Contact No.
1	Kharmate Hanuman Shriram	B.Sc.,B.Ed.	Teacher, Pune	8975569286
2	Bhillare Mahesh Rajendra	B.Sc.	Post Office,Ashti	9158873573
3	Raut Sominath Parmeshwar	B.Sc.	CISF	9011994048
4	Pakhare Ashok Tukaram	B.Sc.	Armi	9096489239
5	Pawal Sachin Ganpatrao	B.Sc.	Police,Ashti	8379834008
6	Tambe Sachin Prabhakar	B.Sc.	Police, Mumbai	9049152610
7	Gadekar Vayabhav Shriram	B.Sc.	Post office, Shirur	9420180537
8	Pawar Paras Darebhan	B.Sc.	Civil Engg.Raigad	9421330367
9	Khole Amol Abasaheb	B.Sc.	M.S.E.B.,Alibag	9823464396
10	Dhakne Vikas Bhagwan	B.Sc.	Teacher,Bavi	9420575252
11	Darade Seema Madhukar	B.Sc.	Teacher,Jalna	9421331363
12	Dhakane Sachin Sharad	B.Sc.	Teacher,Bavi	9420575252
13	Andure Kiran Gangadhar	B.Sc.	Teacher,Midsangvi	9423671411
14	Ghule Prashant Udhavrao	B.Sc.	Teacher,shirur(K)	9763395418

➤ **BEST PRACTICES OF DEPARTMENT:**

- Publishing “Wasundhara” wall paper
- Conduct Test

➤ **FUTURE PLANS OF DEPARTMENT**

- To increase the books of Mathematics in the central library.
- To undertake department Minor / Major research project.
- To Organizing Seminar or Workshop & Guest Lectures.
- To establish Well Departmental Library.

➤ **SWOT ANALYSIS OF THE DEPARTMENT**

Our department strength is well qualified, enthusiastic and reliable staff members

To compete any activity or work. Our weakness is participation of students are

Poor after COVID - 19 Pandemic. The opportunity is to inculcate students to

Participate all activities which are run by department.

➤ EVIDENCE OF SUCCESS



Mathematics National Day 22/12/2022



दैनिक महाराष्ट्रच्या मनाचा नकाशा

लोकाशा

22DEC2022

गणित तज्ञ श्रीनिवास रामानुजन यांची जयंती साजरी

शिरूर, दि. २२ (लोकाशा न्युज) - वेदिल कालिकादेवी कला, वाणिज्य व विज्ञान महाविद्यालयातील गणित विभागाच्यावतीने राष्ट्रीय गणित दिवस म्हणून महान गणितज्ञ श्रीनिवास रामानुजन यांची जयंती साजरी करण्यात आली. याप्रसंगी महान गणितज्ञ श्रीनिवास रामानुजन यांच्या प्रतिमेस पुष्पांशु अर्पण करून अभिवादन करण्यात आले. याप्रसंगी महाविद्यालयाचे प्राचार्य डॉ. विश्वास कंधारे, विजय गाडेकर, गणित विभागाचे प्रमुख प्रा. आर.बी.चाहा, डॉ. जे. एस. के. डॉ. पठाण टी.एस. रा.से.जी विभाग प्रमुख प्रोफेसर डॉ. अशोक धोळवे, सहयोगी प्रा. डॉ. सुधीर बेवले, सहयोगी प्रा. डॉ. मुळे पी.एम, डॉ. नवनाथ पवळे, प्रा. ज्ञानेश्वर बेवले, प्रा. गोवर्धन बेडे, प्रा. विठ्ठल गुडे, प्रा. संदीप संगळ, डॉ. चौधरी यू.एम., डॉ. धम्मपाल घुंकरे, डॉ. चेतना डोण्डळकर, कार्यालयीन अधीक्षक जेडके एम.ए., उमाकांत खेंडकर तसेच महाविद्यालयातील शिक्षक, शिक्षकेतर कर्मचारी, विद्यार्थी, विद्यार्थिनी बहुसंख्येने उपस्थित होते.



Poster wall Republic Day 26/01/2023

To organizing seminar-class B.sc T.Y Date: 29/09/2022



To organizing Group Discussion

H.O.D

Mr. Ghadge.R.B