



**KALPATARU FIRST GRADE SCIENCE COLLEGE, TUPTUR,**  
**DEPARTMENT OF CHEMISTRY.**

**About the Department:**

Department was established in the year 1962. Currently Department is running with seven experienced and well qualified faculty members. The Department has two combinations PCM & CBZ and has well equipped Laboratories, Library and ICT facilities. The faculty is dedicated, disciplined and guide Students in pursuing higher education and to get jobs.

To enrich the knowledge of Students, the Department is conducting many programs like Seminars, Exhibitions and Special lectures. Also, our Department is conducting Industrial tours every year to enhance the knowledge of the Students. Seminar classes are conducted regularly to improve the communication skills and assignment work is given to improve the understanding the subject by the students.

Department has served the society in creating large number of science graduates with great reproducibility. The well-directed, dedicated, contributions of all the staff of yester years in creating a great ambience for scientific education is worthy of praise.

Our alumni are well placed and most of them have excelled in their chosen field. Many of them have continued their studies and are placed in reputed companies.

**Our vision and mission:**

**Our vision:**

- Developing the intellectual strength of Students and to train them to quality education by promoting enthusiasm, interest and passion to study chemistry.
- To provide creative ideas to meet the global challenges in chemistry.

**Our mission:**

- To achieve excellence in teaching.
- To equip the students with skills to study higher education.
- To motivate the students to contribute to the society.
- To empower the students with scientific temper and critical skills.
- To create in our students a concern for the environment and develop appreciation for green chemistry.
- To develop, enhance and improve the quality of human resources.

## Learning objectives and opportunities in chemistry:

### 1. Scientific reasoning and quantitative analysis:

Our majors will be able to apply chemical concepts to solve qualitative and quantitative problems.

### 2. Laboratory practice and safety:

Development of laboratory skills, including preparative techniques, methods for the disposal and handling of toxic compounds and usage of modern instrumentation.

### 3. Impact and applications:

They will understand how chemical principles are applied to address current problems in a variety of fields and impact chemistry on society both locally and globally.

### 4. Development of analytical problem –solving skills in them in areas of chemical study.

### 5. The students will understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines to a wide variety of chemical of chemical problems.

### 6. The students will learn professionalism, including the ability to work in teams and apply basic ethical principles.

## Opportunities

A person with Bachelor's Degree with chemistry subject can work at a variety of fields depending on specific interest. In addition to teaching, they have several opportunities as below

- Chemist. Forensic science chemist.
- Laboratory technician. Medicinal chemist.
- Researcher. Biochemist.
- Chemical engineer. Astrochemist.
- Research associate. Research assistant.
- Medical representative. Chemical technician
- Biotechnologist. Pharmaceutical chemist etc.,

## Faculties from the year 1962.

Sl.No	NAME	QUALIFICATION	SERVICE (From)	SERVICE (To)
1.	Prof. Kumara swamy	M.Sc	1962	1963
2.	Prof.T.D.Subbanna	M.Sc	01-08-1963	13-06-1987
3.	Prof.Y.B. Puttappa	M.Sc	1967	1977
4.	Prof.. N. Lingaiah	M.Sc	19-07-1965	31-08-1998
5.	Prof.A.Sugunendrarao	M.Sc	01-07-1966	31-10-1998
6.	Prof. S.F Jadhav	M.Sc., M.Phil	01-07-1967	30-06-1998
7.	Prof. M.K. Dharmaraj	M.Sc	01-07-1968	30-03-1996
8.	Prof. P.C. Chandrashekar	M.sc	28-07-1975	30-06-2008
9.	Dr.S. Chidananda Sharma	M.Sc,Ph.D	16-11-1978	31-12-1991

10.	Prof. K.R. Chinnaswamy	M.Sc	04-08-1981	30-04-2014
11.	Prof. Y.P. Shirur	M.SC	04-08-1983	31-05-2020
12.	Dr. A.M. Shivanna	M.Sc., M.Phil., Ph.D	19-09-1985	31-05-2021
13.	Sri. Nagarajanaik	M.Sc	29-06-1987	09-09-1992
14.	Dr. K.C. Jagadeeshappa	M.Sc.,Ph.D	31-07-1987	29-02-2020
15.	Prof.. M.B.Shylaja	M.Sc	11-07-1988	-
16.	Prof. G.P Somashekarappa	M.Sc	28-09-1998	-
17.	Prof.. M.S.Thippesh	M.Sc., B.Ed	17-09-1992	-
18.	Sri. J. Prasad	M.Sc	17-09-1992	17-10-2010
19.	Kum.M.S. Shilpa	M.Sc., B.Ed	14-07-2014	-
20.	Smt. R.M. Shobharani	M.Sc., B.Ed	14-07-2014	-
21.	Kum. K.M. Sahana	M.Sc., B.Ed	01-07-2019	28-02-2022
22.	Sri. S. Kirankumar	M.Sc.	15-12-2019	28-02-2022

**Infrastructure:** The Department has two spacious Laboratories (organic and physical), a staff room, a HOD room, a computer room, a preparation room and two store rooms.



PHYSICAL LAB



ORGANIC LAB

**Department Library:** The Department library occupies a unique place in academic and research activities. Our mini library maintains nearly 250 excellent books for reference. The library has a well-equipped facility for reading to meet the informational and needs an intellectual pursuit of department.

### Chemistry topper's list

Sl. No	YEAR	PERCENTAGE	COMBINATION	NAME OF THE STUDENT
1.	2008	93.20	CBZ	NUSRATH BANU
2.	2009	87.00	PCM	CHAITHRA. T. K
3.	2010	87.13	PCM	DEEPIKA B. R
4.	2011	95.12	PCM	KAVYASHREE
5.	2012	96.00	PCM	KALIPRASAD P. D

6.	2013	97.88	PCM	SAMATHA URS
7.	2014	90.63	CBZ	KOWSALYA B
8.	2015	90.38	PCM	LAVANYA B.P
9.	2016	93.75	PCM	LAVANYA K..N
10.	2017	86.00	PCM	CHAITHRA A. M
11.	2018	89.00	PCM	SHARATH
12.	2019	88.75	CBZ	RAKSHITHUPPAR H.S
13.	2020	88.67	PCM	BASAVARAJU N. S
14.	2021	95.66	PCM	MEGHANA H.S
15	2022	90.00	PCM	BHOOMIKA C.B

### **List of Rank holders from 2016**

SL. NO	YEAR	NAME OF THE STUDENT	COMBINATION	PERCENTAGE	POSITION OF THE RANK
1	2015-16	1. BHARATHI H .P 2. LAVANYA K .N 3. POOJA M. C	PCM PCM CBZ	93.71 93.63 92.79	SIXTH SEVENTH TENTH
2	2017-18	1. BALAJI K .M 2. MEGHANAK.S	CBZ CBZ	91.67 88.42	FIFTH GOLD MEDALIST UNDER SC/ST CATEGORY
3	2018-19	1. RAKSHITHUPPAR H. S 2. MEGHANA P.S	CBZ CBZ	89.66 86.75	SECOND SIXTH
4	2019-20	1.BASAVARAJU N.S	PCM	90.8	FOURTH
5	2020-21	1. MEGHANA H.S 2. BHAVYA C	PCM CBZ	94.11 89.95	SECOND SIXTH

### **Papers published in National and International journals by M.B. SHYLAJA, Principal Investigator under Minor Research project.**

1. Estimation of Hardness in Municipal Tap Water of Some Selected Areas Of Tiptur Town, Tumkur District. International journals of Research Studies in Biosciences (IJRSB) Volume3, Issue7, July2015, PP127-133ISSN2349-0357 (Print) and ISSN2349-0365 (Online) Impact Factor2.991
2. Studies On Water Quality Index Of Municipal Tap Water of Some Selected Areas Of Tiptur Town, Tumkur District, Karnataka. Asian Journal of Biochemical and Pharmaceutical Research Issue 4 (Volume:5) 2015 ISSN: 2231-2560 [www.arcjournals.org](http://www.arcjournals.org). Global impact factor 0.456
3. Studies On Dissolved Minerals in Municipal Tap Water of Some Selected Areas OfTiptur Town, Tumkur District.G.J.B.A.H.S.,Vol:5(3):92-94 (July-September,2016) ISSN: 2319-5584 Index Copernicus value 63.93.



## DEPARTMENT ACTIVITIES



One Day National Seminar on  
“Perspectives of Chemistry in Nanotechnology” on 31-07-2015



Lighting the lamp on the occasion of National Seminar



Fresher's day program organized by the Department of Chemistry



Lightning the lamp on occasion of Fresher's day program





Conducted special Lecture program on 25-02-2015 by  
Prof. M.R.Nagaraj



Special Lecture by an eminent Industrialist Sri.T M Swamy,  
Chemical Engineer on 27-08-2015



Visited Naval Aviation, Goa on 16-02-2016



Fresher's Day program organized by the Department of Chemistry





Visited IISC, Bengaluru on **OPEN day** Dated: 04-03-2017



Final Year B.Sc Students in IISC Campus on **OPEN day**





Staff members and Students in the IISC Campus



Visited Chemistry Laboratory in IISC Campus, Bengaluru.





Conducted exhibition for High school Students on 10-02-2018



Visited Agroplast Industry by Staff Members of Dept. of Chemistry on  
13-07- 2018





Principal and Staff Members watching the Working of Machineries  
in Agroplast Industry.



Special Lecture by Dr. Vijay Kumar, Asst. Prof. of Chemistry UCS, Tumkur  
on 16-02-2019.



Honouring the Resource person Dr.VijayKumar on the occasion of special lecture.



Visited Namratha Oil Refineries Pvt.Ltd., Tiptur on 28-01-2020



**Kalpataru Vidya Samsthe (R)**  
**KALPATARU FIRST GRADE SCIENCE COLLEGE**  
 (Affiliated to Tumkur University, recognised  
 by UGC with 12(b) and 2(f)  
 TIPTUR, KARNATAKA- 572201

**DEPARTMENT OF CHEMISTRY & IQAC**  
 Organize International  
 webinar on  
**Multicomponent Reactions and Beyond:  
 Role in Drug discovery**

**Resource person:**



**Dr. Vishwanatha.T.M**  
 M.Sc, Phd  
 Department of Cell and Chemical Biology  
 Leiden University Medical Center  
 The Netherlands

**You are Welcome**

**Date: 22-01-2021**

**Dr.A.M.Shivanna**  
 Principal, KFGSC

**Time: 01:30 PM**

HoD and Staff, Department  
 of Chemistry

International webinar conducted by the Department



Department of Chemistry Organized International Webinar on  
 “Multicomponent reactions and Beyond: Role in Drug discovery” on  
 22-01-2021.







Visited PRAYOGA Laboratory, Bengaluru on 04-08-2021.



Faculty members of Dept of Chemistry along with the Director Dr. Nagabhushan K. S. of PRAYOGA Laboratory, Bengaluru.



PRAYOGA Laboratory, Bangalore.

 **Kalpataru Vidya Samsthe (R)**   
**KALPATARU FIRST GRADE SCIENCE COLLEGE**  
 TIPTUR, KARNATAKA - 572201  
 Affiliated to Tumkur University, accredited  
 with "A" grade by NAAC  
**DEPARTMENT OF CHEMISTRY & IQAC**  
 Organize  
**CHEMISTRY EXHIBITION**  
 For High School & PU College Students

Inauguration by  
**H.G.Sudhakar**  
 Secretary KVS  
  
 Chief Guest  
**G.P.Deepak**  
 Vice President KVS

Date: 29-10-2021    Time: 10AM

All are Cordially invited

Principal  
**Dr.Chitharanjan Rai**

HOD & Staff  
 Department of Chemistry



Exhibition for High School and PU College Students.





Organized Exhibition for High School and PU College Students on 29-10-2021.











Inauguration by the Secretary and Vice-president of KVS,Tiptur.on the Occasion of One Day Awareness Program on Drug abuse prevention.





Awareness Program on Drug abuse prevention Organized by the Dept. of Chemistry KFGSC, Tiptur on 07-01-2022.



Principal Dr. Chitharanjan Rai., taking Oath from all the students against Drug abuse prevention.



Students participated in the awareness program



Industrial visit to Namratha oil Refineries Pvt. Ltd on 06-07-2022









Industrial visit to Sri Gowrishankar chemicals Pvt. Ltd on 09-07-2022



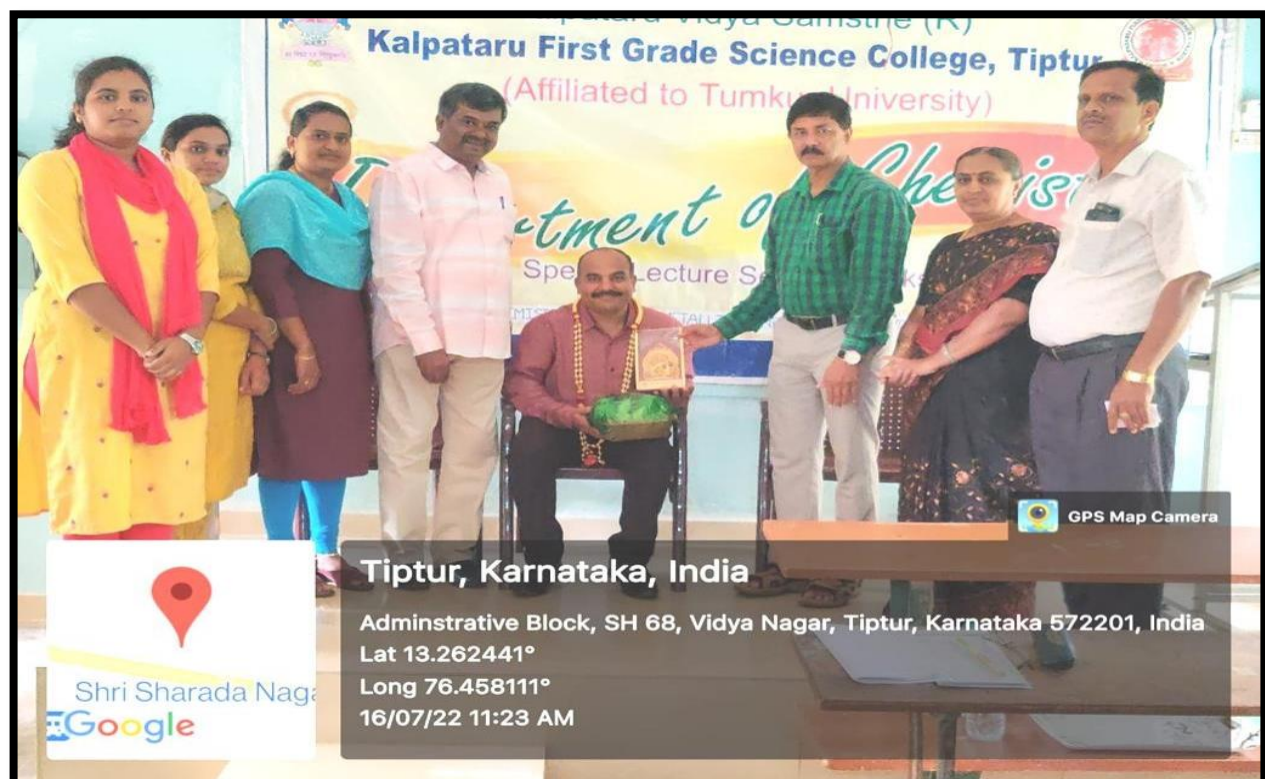






Special Lecture by Dr.Vijaykumar, Assistant Professor of Chemistry  
UCS, Tumkur on 16-07-2022.







Industrial visit to Centre for Nano and Soft matter Sciences, Bangalore  
on 30-07-2022







Special Lecture by Dr. Suchethan P.A, Assistant Professor of Chemistry UCS, Tumkur on 14-02-2023