

UNIVERSITY COLLEGE OF SCIENCE **TUMKUR**

(A Constituent College of Tumkur University)
*(Recognized as College with Potential for Excellence by UGC and
Accredited B+ by NAAC)*
www.ucst.ac.in



PROSPECTUS 2019-20



VISION

To achieve academic excellence in Higher Education and Research

MISSION

- To inculcate and nurture young minds to evolve an effective mechanism for greater participation of all the stake holders of University College of Science
- To develop and operationalize a strategy to foster financial self-sufficiency
- To promote cordial working conditions work ethics, work culture among the faculty and staff members thereby promoting the welfare of the students and the society
- To introduce innovative curricular framework of knowledge, skill and aptitude
- To encourage application oriented higher education and research

UNIVERSITY ADMINISTRATION



Prof. Y. S. Siddegowda
Vice-Chancellor, Tumkur University



Prof. K. N. Ganganaik
Registrar, Tumkur University

College Facilities: Salient Features

Established in 1940 and located in the heart of the city, the College has been promoting education in Science at the undergraduate, post graduate and doctoral levels for nearly 75 fruitful years. Thousands of students graduate from the college ever year. The college has the built-up area of about 13758.60 sq.m. and is housed in a 'Green Campus'.

- ICT based learning: Classrooms are equipped with LCD projectors and smart boards to enable Technology Enabled learning
- College premise is Wi-Fi enabled
- Well established state of the art laboratories
- Highly qualified faculty members in every department who are engaged in research
- Departments regularly organize workshops, conferences, seminars for the benefit of the students
- Research oriented atmosphere to inspire and engage the students in higher learning of science
- Canteen facility
- C .C. T V surveillance to provide security to the students and staff

RANK HOLDERS and ACHIEVERS

University College of Science has bagged five ranks out of ten ranks awarded by the Tumkur University for the BSc. Courses for the year 2017-18



Nayana V
Fourth Rank



Sneha K
Fifth Rank



Afreen M
Eight Rank



Bhagya N
Ninth Rank



Namana V
Tenth Rank



CSUO Dileep Yadav
National Integration Camp-2018



CJUO Shashank M E
Advanced Leadership Camp-2018



Rohit Chandru C
National Integration Camp-2018



Spoorthi P
State Republic Day Camp-2019



Janshi Rani
(M.Sc. in Physics)
Qualified K-SET -2019



Soundarya
(M.Sc. in Chemistry)
Qualified K-SET -2019

Message from the PRINCIPAL DESK



University College of Science, Tumkur is the first college in Tumkur District to be accredited with “A” Grade by National Assessment and Accreditation Council and the College boasts of its historical reputation of spreading Science Education in the region for the last seventy five years. I am pleased that the college is able to create a conducive atmosphere for learning science by constantly engaging with students, parents and other stakeholders. The role of our teachers in catering to the educational requirements of the students is highly commendable. On the other hand, constant monitoring of progress of the students by mentors creates a sense of community in the college. Well-equipped laboratories and the library fulfill the curricular requirements of the student. Co-curricular activities like sports, N.S.S., N.C.C. Red cross, scouts and Guides attempt to bring out the latent talent, nourish and promote the personality development of the students. It is a matter of pride that teachers are highly qualified, proficient and each teacher is constantly engaged in research activities like undertaking projects, organizing and participation in workshops, seminars and conferences at national and international levels. This research driven action inspires and encourages the students to engage in advanced learning and research. This has contributed to the reputed institution a centre for promoting science education. I hope that the student community shall take advantage of the benefits and encourage us to serve for the cause of Higher Education.

Mrs. Shalini B.R, M.Sc. (Ph.D.)

University College of Science: Introduction

University College of Science (erstwhile Government Science College) was established in 1940. The college was taken into the fold of Tumkur University as its constituent college in 2009. The college was accredited with Grade “A” by NAAC in recognition of quality in education in its second cycle and reaccredited with a B+ grade in the third cycle under the revised grading system. It is also recognized as College with Potential for Excellence by UGC. Presently the college has over 1400 students.

The college has resourceful faculty members who are dedicated to teaching and also undertake research activities with grants from several funding agencies. The College offers three years undergraduate course in different subjects and three Post graduate Departments leading to the award of Bachelor and Master Degrees in Science from Tumkur University, Tumkur. There are Ph.D guides in various subjects.

The college has eleven U.G Departments viz. Kannada, English, Botany, Biotechnology, Chemistry, Computer science, Electronics, Mathematics, Microbiology, Physics, and Zoology. There are three P.G Departments which include Physics, Chemistry and Environmental Science. The Departments are equipped with the state of the art laboratories.

Principal: Mrs. Shalini B.R, Associate Professor, Department of Botany

Vice-Principal: K.V.C Rathnakumari, Associate Professor, Department of Zoology.

Departments of the College

Department of Kannada:

The Department of Kannada engages in providing impetus to the development of linguistic capacities for the students apart from encouraging the students to participate in curricular and co-curricular activities.

H.O.D: Dr Geetha Vasanth, MA, Ph.D, D.Lit, Assistant Professor

Lecturers

Dharmavera K H, M. A, Ph. D. Krishnegowda T S. M.A.
Asharani K, M. A. Shivanna T S M.A. Ph.D.

Department of English

The Department of English aims to facilitate the development of proficiency in English and communication skills apart from writing skills.

H.O.D: Bharat Shilpi M.A, (Ph.D) Assistant Professor

Assistant Professors

Dakshayini G,M.A,M.Phil,(Ph.D)
Jyothi, M,A, Ph.D.

Lecturer

Yahswanth, M.A.
Sudha, M. A.

Department of Botany

The Department focuses on the study of plants including anatomy, morphology, molecular biology, physiology, genetics and plants of economic importance.

H.O.D: Shalini B R, M. Sc, (Ph.D), Associate Professor

Lecturers

Lakshman M. Sc, Ph. D.	Roopashree, M.Sc
Indushree M.N. M.Sc	Sreenivas, M.Sc
Raghuprasad, M.Sc	Kusuma, M.Sc

Department of Biotechnology

The Department aims to equip the pupils in imparting knowledge and practical skills relating to biotechnology, thereby making them the entrepreneurs of the future.

H.O.D: Dr. Krishna, M.sc, Ph. D, Assistant Professor

Assistant Professors

Dwarakanath V, M.Sc. (Ph. D)
Poornima D, M.Sc. Ph. D

Lecturer

Dakshayani S S

Department of Chemistry and Biochemistry

The Department aims to introduce the students to the theories in chemistry and technological practices of chemistry.

H.O.D: Dr. T.N. Ramesh. M Sc, Ph, D, Assistant Professor

Associate Professors

Shet Prakash M, M. Sc. Ph. D
Sreenivas.S, M. Sc. Ph. D

Assistant Professors

Aruna Kumar D.B, M. Sc., M. Tech., Ph. D
Vijayakumar G.R, M. Sc. Ph. D
Savitha K R, M. Sc. (Ph. D)
Suchetan P.A, M. Sc. Ph. D
Shivananda M.K, M. Sc. Ph. D
Narendra N, M. Sc. Ph. D
Suresh, M. Sc. Ph. D
Jayashankar M. M. Sc. Ph. D
Raghavendrakumar P, M. Sc., B. Ed., Ph. D
Nirmala .B, M. Sc., B. Ed., Ph. D
Venkateshappa. G, M. Sc. (Ph. D)
Mrs. Bhagyalakshmi. M, M. Sc. (Ph. D)
Mrs. Madavi sunitha, M. Sc. (Ph. D)

Lecturers

Ayeesha B N, M. Sc.
Chethana K O, M. Sc.
Satheesh C E, M. Sc.
Smitha G N, M. Sc.
Raghavendra T O, M. Sc.
Thanuja L, M. Sc.
Pooja Kamath, M. Sc. Ph. D
Ramyashree D H, M. Sc.
Shreelakshmi J S, M. Sc.
Anusha V, M. Sc.
Sushma A B, M. Sc.
Shwetha S N, M. Sc.
Lavanya K N, M. Sc.

Department of Computer Science

The students are introduced to the requirements of the software industry. The Department employs need-based approach in equipping the students with advanced computation.

H.O.D: Kusumakumari B M, M.Phil, (Ph.D).

Associate Professor

B.L Mukundappa, M.Sc, (Chem & C.S) M.Phil, Ph.D,

Assistant Professor

Ramani R. B E, M Tech (Ph.D.)

Lecturers

Sowmy B, M.C.A.

Nalina M V ,M.C.A.

Sangeetha V, M. Tech.

Sowmya P, M. Tech.

Srilakshmi K, M. Tech.

Srikanth B, M. C. A.

Poornima Patil N, M. Tech

Department of Electronics:

The studies in the Department introduce the students to network the theorems, semiconductor theory, diode application, digital electronics, communication system and b microprocessors.

H.O.D: D.Manjunath M.Sc, (Ph.,D) Assistant Professor.

Assistant Professor

Shwetha D M.Sc, Ph.D.

Lecturer

Mahesh. H , M.Sc.

Department of Mathematics

The Department strives to create adequate opportunities for students to understand and appreciate the applicative potential of mathematics.

H.O.D: Dr. Narahari N, M.Sc, Ph.,D Assistant Professor

Lecturers

Sangeetha T L, M. Sc.

Namratha H V, , M. Sc.

Veena T, , M. Sc.

Shruthi T, , M. Sc.

Shoba K C, , M. Sc.

Rekha R, , M. Sc.

Akshatha M, , M. Sc.

Manohar T, , M. Sc.

Anitha H D, , M. Sc.

Chennabasavaiah, , M. Sc.

Mantesha, , M. Sc.

Gowtham K J, , M. Sc.

Asma Bagam, , M. Sc.

Jeeven Kumar, , M. Sc.

Rabiya Parveen, , M. Sc.

Department of Microbiology

The Department aims to inculcate scientific temperament and research abilities among the students and impart the knowledge of microbiology.

H.O.D: Dr. Rashmi Hosamani , M.Sc.,Ph.D, Assistant Professor.

Assistant Professor

Mrs. Shabeena Anjum K S

Lecturers

Bhanumathi N, , M. Sc.

Shilpa. K M, , M. Sc.

Department of Physics

The Department is engaged in creating adequate opportunities for students to understand the principles and appreciate the applicative potential of physics.

H.O.D: Dr.Rathnakara G, Vaidya, M Sc, Ph.D, Assistant Professor.

Assistant Professors

Ramakrishna. G, M Sc, M. Phil, Ph.D

Malleshappa.,J, , M Sc, M. Phil, Ph.D

Chethan prathap K N, M.Sc.,Ph.D

B S Palakshamurthy, ,MSc, M.Ed, Ph.D

Veerabhadrayya M, , M Sc, M. Phil, Ph.D

Dr.Chikkappa Udagani, M Sc, Ph.D

Harishakumar K, M.Sc., Ph.D

Mangalagowari M, , M.Sc., Ph.D

Hemantha M, M.Sc., (Ph. D.)

Narayan Gaonkar, M.Sc.,

Geetha R N, M. Sc.

Shreelakshmi B P, M Sc.

Sumaiya Banu, M. Sc.

Lecturers

Hanumantharaya H, MSc.

Chitra G, M Sc.

Mahesh G , M Sc.

Shylaja I , , M. Sc.

Dhanalakshmi B L , , M. Sc.

Kiran kumar B M, , M. Sc.

Chethan B S, M. Sc.

Meghana H N, M. Sc.

Chaitra N C, M. Sc.

Sandhya K C, M. Sc.

Swathi B K, M Sc.

Manju M M, M. Sc.

Department of Zoology:

The Department aims to impart basic Knowledge about cytological techniques, structure and functions of various organic compounds, protein synthesis, molecular basics of DNA, genetic analysis.

H.O.D.: K.V.C Rathnakumari, M.Sc, Associate Professor

Associate Professor

Asiya Nuzhat F B, M.Sc, Ph. D

Assistant Professors

Parimala B, M.Sc, Ph. D

H M Lalitha, M.Sc

Bhavyashree S P, M.Sc

Manikanta, M.Sc

Lecturers

Manasa G, M.Sc

Ravikiran K M, M.Sc

Manasa S, M.Sc

Simi Simon, M.Sc

Nandini N, M.Sc

Non-Teaching Staff

Office Support Staff

Sri Nagaraja ,H
Smt. Mamtah K C
Smt .Gayathri .B
Smt. Mamatha.K.C
Smt. Lakshmi B
Sri. Chikkanna C
Sri. Honneshappa ,S.R
Sri Narasimha Murthy
Sri Shivanna H.K.
Sri Mahadeva E
Kum. Pavithra
Kum. Bhanupriya

Lab Support Staff

Smt. Bhramarambha B
Smt. Savithramma B N
Sri Venkatesh N V
Sri Sateesha A
Smt. Indramma
Smt. Puttalakshmmamma
Kum. Chandrakala
Sri. Raghunath M. H.
Kum. Hema

Student Support (*Learning Resources*)

Library and information Centre:

The Library is located in the premises of the college and has rich and diverse collection. The collection of the library is covering areas of Life sciences, Physical Science, Chemical Science, Biological Sciences and Computer sciences and is growing at a very fast pace to match the changing needs of the students and the staff of the college. The collection of over 50,000 books and reference books, CDs and DVDs, back volumes of journals/periodicals, magazines, project reports and other reading materials can be found. Library subscribes 31 state, national and international journals/periodicals in the various fields of science and technology. Open Access approach has been adopted to provide users with best of the service.

Library Automation is complete and it is well equipped with computers and Internet facility. Library has access to more than 6500, e-journals and 1,00,000 e-books through program entitled "National library and information services Infrastructure for scholarly content (N-LIST)" by INFLIBNET and xerox facilities. RFID Technology implementation is in process.

Librarian: Mrs. Rajalaxmi A Govanakoppa, M.L.I.Sc., (Ph.D),

Shruthi S., B. L.I.Sc., Library Assistant

Library Support Staff

Savithramma B.R.,
Raghu

Student Support (Co-Curricular)

Sports And Physical Education

The Department of Sports and Physical Education attempts to create awareness about health and fitness apart from teaching, training and coaching in indoor/outdoor games/fields events. It organizes competitions at the interclass, inter-college and inter-university levels.

Dr. A M Manjunatha, M A, M.P.Ed, Ph.D, Assistant Director of Physical Education

Cultural committee is very active and students are encouraged to participate in co-curricular activities. Many students represent the college at various levels and bring laurels to the college.

Student Support (Overall Development)

Students Counseling Cell

Student counseling cell functions to address the cognitive and psychomotor challenges and assists the students in stress management during distress.

Remedial and Coaching classes

Remedial classes are conducted to help the students to improve their performance in the exam and to resolve the challenges in the class room. Classes are conducted in spoken English to improve the proficiency of the students in English and related soft skills.

Coaching classes are conducted for the students to appear for the competitive examinations like civil services, banking etc.

Sexual Harassment Prevention Cell

Sexual Harassment prevention Cell is established with the senior faculty members as its members to maintain the dignity of the women (students and staff) and to prevent any untoward incidents towards the safety and self-respect of women.

Placement Cell

Placement cell caters to the need of the students relating to employment, personality development and skill development.

Students Welfare Committee

Students' welfare committee functions as a forum for the promotion of academic, social and personality developments of students.

Hostel Facilities

Hostel accommodation is available for men and women. In addition, hostels are also available for the students belonging to SC/ST categories with the funding from the Social Welfare Department of the Government.

Extension Activities

Students are encouraged to participate in NCC and NSS activities are aimed at strengthening the spirit of national integration and democratic spirit towards building a strong secular society. NCC cadets participate in different camps and support the college in maintaining the discipline.

Anti-Ragging Policy

The college strictly adheres to anti-ragging policy as stipulated by UGC and the Government. A student has to submit an undertaking that he/she shall not indulge in ragging or any other activity which violates human dignity and societal norms.

Courses offered by the College

The college offers B. Sc. courses in different fields of studies in science. The B.Sc. course is of six semesters duration and is of the Choice Based Credit System (CBCS) type. For details regarding the regulation of the courses and the syllabi of subjects, please visit the website www.tumkuruniversity.ac.in

The following subjects are available in combination for the B.Sc. Course.

Physics	Chemistry	Mathematics	(PCM)
Physics	Mathematics	Computer science	(PMCs)
Physics	Mathematics	Electronics	(PME)
Chemistry	Botany	Zoology	(CBZ)
Chemistry	Zoology	Biotechnology	(CZBt)
Chemistry	Botany	Biotechnology	(CBBt)
Chemistry	Zoology	Microbiology	(CZMb)

Bachelor of Vocational Course (B.Voc) in Hardware & Networking

Bachelor of Vocational Course is a 3-year undergraduate course is available for pursuance by students hailing from different fields. The basic eligibility for admission to this course is the successful completion of the PUC (class XII or equivalent) from a recognized educational Board. The course has essentially been designed for students wishing to enhance their employability and facilitates students in learning integrated with professional grooming. The curriculum is based to cater the industry demands. The college has entered into MOUs with reputed companies such as INTEL Semiconductor

Devices Ltd. and INCAP Solutions ltd. for technical and placement support to the B. Voc. students.

As per the UGC guidelines the students studying B.Voc Degree can obtain the certificate of:

- Diploma after successful completion of first year of B.Voc.
- Advanced Diploma after successful completion of second year of B.Voc.
- Degree in B.Voc after successful completion of all the three years.

Bachelor of Computer Application (BCA):

The course will be started from the academic year 2019-2020 at the University College of Science.

Bachelor of Computer Application (BCA) is an undergraduate degree course in computer applications. With the rapid growth of IT industry in India, there is an increasing demand for computer professionals. The degree helps interested students in setting up a sound academic base for an advanced career in Computer Applications.

BCA is a three years undergraduate degree program for candidates wishing to delve into the world of Computer languages. The minimum qualification required to apply is a pass in the PUC (10+2 or equivalent) examination from any recognized central or state board with Mathematics / Business Mathematics / Commerce / Computer Science / Statistics as one of the core subjects or a course recognized as equivalent thereto by the university.

Syllabus: The basic course curriculum of BCA, typically lays emphasis on database management systems, operating systems, software engineering, computer Networks, web technology and programming languages such as C, C++, Python, Java, PHP etc.

PG. COURSES

M.Sc. Physics,	Co-ordinator- Dr.Chikkappa Udagani
M.Sc. Chemistry	Co-Ordinator- Dr. Shet prakash M
M.Sc. Environmental science	Co-ordinator -Dr. Raja Nayak H

Fee Structure and Reservation Policy:

Fee Structure for admission and examination is as per the university norms and the orders of the Government Reservation Policy is maintained regarding admissions. Details of the fee structure belonging to different categories shall be displayed in the notice board of the college.

Scholarships:

Several merit based scholarships are available for students belonging to SC/ST, OBCs, minorities, and physically challenged (Divyang) students. The Department of Science and Technology, Govt. of India, corporations and corporate house and community welfare societies also provide scholarships.

Application Fee: Rs. 100-00

For more details contact the Office of the Principal, University College of Science, B.H. Road, Tumkur, Telephone; 0816-2260220

Email ID: Principalucst@gmail.com; College website: www.ucst.ac.in

Infrastructure and Activities: A Glimpse



