



KARNATAK UNIVERSITY'S
Karnatak Science College, Dharwad

PROSPECTUS 2023-24

VISION

JUST, EQUITABLE, TRANQUIL AND HARMONIUS
SOCIAL ORDER, WITH SCIENTIFIC TEMPERAMENT

MISSION

- To enhance the student's ability, to make them special, and thereby creating experiences so surprisingly positive and memorable.
- To provide a variety of options for delivering dazzling science education to our students.
- To offer invigorating experiences in a way that builds confidence and creates sustainable and positive defining moments.
- To inspire students to do what they say they will.
- To help students to network with people who have common needs and interests to do something extra.
- To provide necessary infrastructure to generate a talented human resource pool; this will be useful to our society at large.
- To transform students into sharp thinkers, writers, speakers and leaders in the professions of their choice.
- To instill scientific temperament in the younger generation.



GOALS

- a) Imparting total quality education in pure Sciences.
- b) Providing the curriculum relevant to societal needs.
- c) Creating awareness about the developments in Science and Technology.
- d) Sensitizing global competencies among youth.
- e) Inculcating a sense of National character; contribution to National integration and development.
- f) Creating a pleasant environment to achieve excellence in curricular, co-curricular and extra-curricular activities.
- g) Establishing Memorandum of Understanding (MOU) with neighboring industries.
- h) Empowering students to take up challenging career opportunities.
- i) Designing an action plan for helping physically challenged persons, slow learners and students from rural backgrounds.
- j) Encouraging girl students to face the challenges of life independently.

EMBLEM

“The emblem of our college symbolizes excellence in teaching and research in basic sciences, such as the physical sciences, chemical sciences, biological sciences, earth sciences and their applications”



- The CREEPER is a symbol of the environment which surrounds, sustains and protects all organisms.
- The structure of the PLANETARY ELECTRONS symbolizes the enormous energy and the possibilities offered to man for the study of matter, energy and the phenomena arising from their interactions, in the UG and PG department of Physics, including UG studies on Electronics and Computer Science.
- The CHISEL and DIAMOND symbolize the hidden wealth in the earth and its study in the department of Geology.
- The GLOBE represents the uniqueness of our planet, and challenges offered for its study, which is undertaken in the department of Geography.
- The FINGERPRINT PATTERN signifies the infallibility of scientific evidence in the administration of justice; a symbol of the department of Criminology and Forensic Science.
- The pair of a BIRD and a FISH symbolizes non-aquatic and aquatic animal kingdoms, and the innumerable mysteries awaiting their exploration in the departments of Zoology, Microbiology as well as Industrial Fish and Fisheries department.
- The FLOWER TWIG represents the beauty and tenderness of life around us and the flora, inspiring its fascinating study which is undertaken in the departments of Botany and Genetics.
- The ROUND BOTTOM FLASK and TEST TUBE represents the enquiring, keen observation and experimenting mind of a chemist, in the UG and PG department of Chemistry, including UG studies on Biotechnology.

Administrators



Prof. K. B. Gudasi

Hon'ble Vice-Chancellor
Karnatak University,



**Prof. (Smt.) Chandramma
M**

Registrar (I/c),
Karnatak University Dharwad,.



Dr. C. Krishnamurthy
Registrar (Evaluation) &
Finance Officer,
Karnatak University,
Dharwad, Karnataka,
India.



Dr. (Smt.) M. S. Salunke
Principal
Karnatak Science College,
Dharwad, Karnataka, India

ಅನುಶಾಸನ

ಸತ್ಯವಾದುದನ್ನು ನುಡಿ, ಧರ್ಮದಂತೆ ನಡೆ
ಕಲಿತ ವಿದ್ಯೆಯ ಕಡೆಗೆ ಲಕ್ಷ್ಯವಿಡು.

ಸತ್ಯಕ್ಕೆ ತಪ್ಪಿ ನಡೆಯಬೇಡ, ಧರ್ಮವನ್ನು ಬಿಟ್ಟು ನಡೆಯಬೇಡ
ಕಲ್ಯಾಣದ ಹಾದಿಯನ್ನು ಬಿಡಬೇಡ
ಲೇಸಾದುದನ್ನು ಮರೆಯಬೇಡ
ಕಲಿಯುವದನ್ನೂ ಕಲಿಸುವದನ್ನೂ ತೊರೆಯಬೇಡ.

ತಾಯಿ ದೇವರೆಂದು ಬಗೆ, ತಂದೆ ದೇವರೆಂದು ಬಗೆ
ಗುರು ದೇವರೆಂದು ಬಗೆ, ರಾಷ್ಟ್ರ ದೇವರೆಂದು ಬಗೆ
ನಿನ್ನ ವಿದ್ಯಾಪೀಠವನ್ನು ಗೌರವಿಸು.

ನಿಂದೆಗೆ ಗುರಿಯಾಗದಂತಹ ಕಾರ್ಯಗಳನ್ನು ಮಾಡು
ಮಿಕ್ಕವುಗಳನ್ನೆಲ್ಲ
ನಮ್ಮಲ್ಲಿಯ ಯೋಗ್ಯ ನಡತೆಯನ್ನು ಮಾತ್ರ ಅನುಸರಿಸು.

ಶ್ರದ್ಧೆಯಿಂದ ಕೊಡು ; ಶ್ರದ್ಧೆಯಿಲ್ಲದೆ ಕೊಡಬೇಡ
ಅರಿತುಕೊಡು ; ಅಂದವಾಗಿ ಕೊಡು.

ಇದು ಆದೇಶ, ಇದು ಉಪದೇಶ, ಇದು ಅನುಶಾಸನ
ಇದರಂತೆ ನಡೆಯತಕ್ಕದ್ದು.

ಸ್ನಾತಕರೇ, ಈ ಅನುಶಾಸನವನ್ನು ಜೀವನದುದ್ದಕ್ಕೂ
ನಿಷ್ಠೆಯಿಂದ ಪಾಲಿಸಿರಿ.

(ತೈತ್ತಿರೀಯೋಪನಿಷತ್ತಿನಿಂದ)

Message from Ex-Principal Prof. J. L. Kalyan



Dr. J L Kalyan
Former Principal,
Karnatak Science College, Dharwad, Karnataka

I am pleased to address the students and other stake-holders of Karnatak Science College Dharwad, which has a glorious history. The Karnatak Science College has highly trained faculty who are engaged in research as well as teaching, good laboratories, well-maintained museums and richly endowed libraries. The teachers of this institution provide students the liberty to think and express themselves. The governing body of the college believes that education is an effective medium of social transformation. Education plays a key role in the overall development of the society. Looking at the bright and successful careers of thousands of our students, the staff members and administrators of the college feel a sense of achievement, as these successful students engage in activities which ultimately benefit the society at large. It gives me immense pride to acknowledge the contribution of all the members of the teaching and administrative

(non-teaching) staff in making the various endeavors undertaken by the college successful. The students of this esteemed institution benefit not only from the theoretical and experimental curriculum, but also from efforts to develop their personality, and the encouragement to involve in extra-curricular activities. There is emphasis on holistic development. The list of alumni of our college includes Shri. P. B. Gajendradkar, former Chief Justice of the Supreme Court of India, Wrangler Dr. D. C. Pavate, former Governor of Punjab and Padma Bhushan awardee, Late Prof. Dr. M. I. Savadatti, former Vice-Chancellor (VC) of Mangalore University, Padmashri Nandan Nilekani, Former CEO of Infosys Bengaluru, Prof. Dr. A. M. Pathan, former VC of Karnatak University, Dharwad and the ex-VC of the Central University of Karnataka located at Gulbarga, Dr. Raman Deshpande, a leading surgeon in cancer research at Mumbai, Dr. R. B. Patil, a well-known physician and Padmashri awardee, Dr. K. M. Koliwad, former scientist at NASA in USA, Major General Michigan of Indian Army, Dr. Ravi Surpur IAS, Shri Nanjundaswamy IPS, Shri Jagadeesh Dodamani IFS and Lt. Col. R. S. Desai, among many others.

The role of education is definitely not limited to giving and grasping knowledge, skill and good academic abilities. The true goal of education implies an all-round development of a person, both in mind and spirit. The ultimate goal of education is discovery of the meaning of life, both for oneself and for all mankind. The quest of education is knowledge, humanity, culture, wisdom and sharpness, but it should be noted that knowledge is not given but earned, and character is not granted, but cultivated. Hard work, dedication and perseverance are the most important traits in a person that leads him (or her) to success. The future belongs to the students of today, who have to prepare themselves for an active participation in the modern world. This participation demands that students become well informed, and ultimately grow as responsible men and women, shouldering the great responsibility of being the educated citizens of India.

With Best Wishes,

Dr. J L Kalyan
Professor and Ex-Principal
E Mail: principal.kscd@kscd.ac.in
Mobile: +91 9481124212
Landline: 0836 -2215400

Prof. M. S. Salunke takes charge as Principal of KSCD (on 31-7-2023)



Dr. (Smt.) Manjali S Salunke, Professor of Chemistry, KSCD took charge as the Principal of KSCD from Dr. Jagadeesh L Kalyan, who retired from service on 31-7-2023.

Prof. M. S. Salunke has vast teaching and administrative experience of thirty five years. Earlier, she has served as the Head of the Department of Chemistry, KSCD, the Vice-President and Chairperson of various departments of KSCD Gymkhana, as well as Chairperson of NAAC Criteria Committees. She is the Chairperson of the College Magazine, Varnasaptaka.

Brief profile of Karnatak Science College, Dharwad

The Karnatak Science College, Dharwad (KSCD) is known in the entire North Karnataka region for liberal education in basic sciences (B.Sc., M.Sc. and Ph.D. courses) as well as some

professional courses (BCA course). The institution continues to grow under the watchful eyes of the Karnatak University (KUD) authorities, who encourage and patronize the improvement of infrastructural facilities and human resources in the college in order to enhance academic excellence and social relevance, thereby contributing to the overall personality development of students studying here. The ambience of the KSCD, which is located in fifty five kilometers of a hilly and green region in the centre of Dharwad City, with different departments and other facilities housed in buildings which are spread out all over the campus, provides the best possible environment for students to succeed in the fields of their interest, whether it is in curricular aspects or extra- curricular activities.

- The college has a huge campus, sprawling over 55 acres of land, with eco-friendly atmosphere. It is centrally located and connected by roads to major parts of Dharwad.
- The college has a governing council headed by the Honorable Vice-Chancellor (VC) of Karnatak University, Dharwad and its syndicate members, with three Staff members of the college as its members and the Principal of the college as the secretary. The governing council guides and regulates all administrative and academic activities of the college.
- The college has ten major basic Science departments Viz Physics, Chemistry, Mathematics, Botany, Zoology, Geology, Geography, Forensic Science, Statistics and Computer Science. The Departments of English, Kannada, Hindi, Sanskrit & Yoga Studies, Foreign Languages, Urdu & Persian, Psychology, Economics and Anthropology are common to both the Science College and the Arts College.
- There are thirty eight highly qualified and experienced teachers in regular service in the college. Most of the faculty members of the college possess Ph.D. degree and are active in research, which enables a research culture to be inculcated in students learning here, through project work and activity based training.

- Many students of this college have secured distinction marks in the University examinations, and some of them have secured a place in the KUD rank list.
- Each department has its own study centre, whose mandate is to enhance the academic knowledge of the students by organizing seminars, symposia, workshops as well as competitions for students, and by arranging invited lectures.
- A thought - provoking college bulletin board (named Vichar Kranti) provides an opportunity for students to write scientific articles, poems, compilations and cartoons. A separate notice board is provided for this activity.
- The college has research laboratories in most of the departments. Some of the faculty members of the different departments are recognized as Ph.D. guides by the KUD. Many students have successfully earned their Ph.D. and M.Phil. degrees under the supervision of faculty members of KSCD.
- The faculty members of the college are actively involved in implementing research projects funded by agencies like UGC, DST and VGST. In addition to their teaching work, the staff members regularly attend national and international conferences to present their research work. They have also published research articles in reputed journals.
- The college has an active Student Welfare Officer (SWO) who takes care of the grievances of the students, in co-ordination with the Principal, Wardens, HODs, NSS and NCC officers. He also helps the students by attesting their documents. He arranges campus interviews and workshops to benefit the students, thereby enabling them to take up competitive examinations and face job interviews.
- A health centre is present in the college campus, where students are counseled and treated free of cost. It has a qualified doctor (Health Officer) and a clinical laboratory. Every Monday, a lady doctor visits the health centre of the college to give medical aid to ladies. The health centre is kept open on all working days, from 8 am up to 12 noon in the morning, and from 4 pm up to 6 pm in the evenings. The

college authorities take the help of locally available doctors, including psychiatrists, to counsel the needy students.

- Various facilities are available in the college campus for the students. These include a student's home, a branch of the Canara bank, a canteen, in addition to an auditorium of international standard called Srijana (donated by Shri. Nandan Nilekani, an alumnus of our college). The Canara bank is situated in a central and easily accessible location in the college campus. All financial transactions of students like payment of fees and scholarships are handled through the bank. There is ATM facility too.
- The college has two well - furnished boys hostels, namely, Krishna and Godaveri, accommodating around 100 boys, in addition to a girls hostel named Kaveri (two blocks), accommodating 200 lady students. Students are admitted to the hostels by following the rules framed by the University.

Historical background of the College

The 20th of June 1917 marks an important day in the calendar of education in Northern Karnataka; it was on this day that, after strenuous efforts of several years, Karnatak College in Dharwad was established. The Karnatak College located at Dharwad, in the Northern region of Karnataka, is truly a symbol of a spirit and an embodiment of a sentiment. The college has been a fountain of inspiration to a multitude of people in this region, down to this day. The staff and students of this college remember with gratitude the efforts made by the esteemed founders of the college, Late Diwan Bahadur Rodda Shrinivas Rao, Late Rao Bahadur R.C. Artal and Late Shri. M. B. Choubal, who worked heart and soul to establish this prestigious college which came up in 1917. The proposal for science wing was put up in 1923. The survival of this college is due the efforts of Late Sir Siddappa Kambali, who also was instrumental for the science departments of the college getting equipped with high quality instruments. The Karnatak College, Dharwad (KCD) was bifurcated in 1937 into Karnatak Arts College, Dharwad

(KACD) and Karnatak Science College, Dharwad (KSCD), and the buildings for various subjects of science started sprouting from 1939, whereas the commerce section was added to KACD in 1977.



Busts in honour of Late Diwan Bahadur Rodda Shrinivas Rao (Left), Late Rao Bahadur R.C. Artal (middle), the founders of Karnatak College, Dharwad along with that of Late Sir Siddappa Kambali (right) who is responsible for the survival of the college and the establishment of Science departments.



Picture of the building of Karnatak Science College, Dharwad, which houses the Principal's Chamber, Office, UG & PG Department of Chemistry, the Statistics Lecture Hall and the Department of Geology KSCD

KACD and KSCD share a common campus and many other campus amenities. In fact, the birth of several departments of the Karnatak University, Dharwad (KUD) took place in KCD, before being shifted to a new location, later called Pavatenagar. KUD is the second oldest University in Karnataka, and one of the reputed institutions for higher education in India. KUD started functioning in 1949, with Mr. R. A. Jahagirdar as the first Vice-Chancellor (VC). It was the visionary Late Dr. D. C. Pavate who visualized the role of this University, and during his term as the VC of KUD, he strove to make it one of the best in the country by giving it national and international importance. At present, KUD has forty eight post-graduate departments and more than two hundred and eighty affiliated colleges.

Dr. G. S. Paramasivaiah was the first Principal of KSCD. At present, in addition to under-graduate courses in a wide variety of science, professional and applied science subjects, the KSCD also conducts post-graduate (PG) courses in Physics, Chemistry, Botany and Mathematics. KSCD, being a constituent college of KUD, is a recognized research centre and many of the faculty members are recognized guides for students pursuing their Ph.D. course. Many students have obtained their Ph.D. degree under the guidance of faculty members working in KSCD. The availability of recognized guides and established research laboratories in KSCD adds value to its faculty profile, as a research culture is inculcated in interested students pursuing the UG and PG courses as well.

There are four departments in the KSCD wherein PG courses (M.Sc. courses) are conducted, namely, Physics, Chemistry, Mathematics and Botany. The faculty members of these departments supervise the project or research work of M.Sc. students, leading to the submission of a M.Sc. Project dissertation (by students) in the final semester of the M.Sc. course, which is evaluated by the examiners at the end of the course.

NEW EDUCATION POLICY (NEP -2020)

(DISCLAIMER: The content is subject to modifications, based on revised guidelines by the Government of Karnataka and the Karnatak University, Dharwad, from time to time. The matter presented here is for information purposes only)

Karnataka is the first State in India to issue an order (on August 7th 2021) for the implementation of the New Education Policy 2020 (NEP 2020) by following the guidelines stipulated by the Government of India. The Government of India had notified NEP-2020 on July 29, 2020, which is based on Dr. Kasturirangan Committee's Report. The objective is to bridge the gap between the current system of education and what is required in the 21st century. It is to have holistic and multidisciplinary under-graduate (UG) education in order to produce employable graduates with integrated personality. In Karnatak University, NEP has been successfully implemented for UG courses with effect from 2021-22.

According to the guidelines released by the Government of Karnataka (GOK) for implementing NEP-2020, students joining the B.Sc. Degree courses should opt for two subjects which are available for study in the college, called as Discipline Core (DSC) subjects. However, opting DSC subjects is not necessary for students studying subject based graduate courses like BCA, BBA and BBA. At the start of the third year of the B.Sc. Course, the students can choose one of these subjects (DSC subjects) as MAJOR and the other subject as MINOR. Alternatively, they may opt to study both these subjects as MAJOR. In addition to opting two of the subjects as DSC, the students have to choose Kannada and one more language as language subjects (LS). Also, the students have to choose Open Electives (OE) and Discipline Electives (DSE), as per the curriculum structure. Discipline Core (DSC) refers to core papers in a subject or discipline. Discipline Elective (DSE) refers to elective papers in the core subject or discipline, while Open Elective (OE) refers

to elective papers in a non-core subject across all disciplines. Program structures also contain Ability Enhancement Compulsory Courses (AECC), Languages and Skill Enhancement Courses (SEC) (Both skills and value based). Pedagogy involves Lecture (L) + Tutorial (T) + Practicals (P) model. Generally, subjects with practicals involve L+P, while the subjects without practicals involve L+T model. Generally, one hour of lecture or two hours of practicals per week in a semester is assigned one credit. Generally core subject theory papers will have 3 or 4 credits, while practicals are assigned 2 or 3 credits.

Students are provided with a flexible study curriculum in NEP-2020. They can get entry (admission) to a particular odd semester, before its commencement and can leave at the end of every even semester, after acquiring the necessary credits to get a certificate, diploma or degree. The exit options and details of student progression in NEP-2020 are as follows:

1. If a student discontinues the course (for any reason) after the completion of the first year of graduation which corresponds to the National Skills Qualification Framework (NSQF) level 5 by obtaining the necessary credits, he or she will be given a certificate.
2. If a student discontinues the course (for any reason) after the completion of the second year of graduation which corresponds to the NSQF level 6 by obtaining the necessary credits, he or she will be given a diploma.
3. If a student discontinues the course (for any reason) after the completion of the third year of graduation which corresponds to the NSQF level 7 by obtaining the necessary credits, he or she will be awarded a Bachelors degree.
4. If a student continues the course after the completion of the third year of graduation, in colleges where the four year Honors degree course is available with the chosen optional subjects, and successfully obtains the necessary credits which corresponds to the NSQF level 8, he or she will be given a Honors degree. **In case a research project is a part of the course, such Honors Degree holders are eligible to directly pursue Ph.D. studies.**

The college may offer two extra Elective papers instead of a research project in the fourth year. Alternatively, internship may be offered to the students.

5. Post-graduate (PG) courses will be of one year duration for those who get entry with Honors degree or of two years duration for those who are admitted with Bachelors degree. In case a student pursuing the M.Sc. (PG) Degree and studying in his or her second year discontinues after getting the prescribed credits set for the first year of the PG course, then he or she will be awarded the PG Diploma.

6. Eligible colleges can have integrated M.Sc./PG courses of five years duration, in addition to degrees of three years and Honors degree of duration four years, in which case the student will be awarded a Bachelors degree if he or she opts out after three years after obtaining the necessary credits, and with the Honors degree if he or she opts out after four years of the five year integrated PG course (with the necessary credits, of course).

Excerpts from KUD regulations for NEP-2020

(The content is subject to modifications, based on revised guidelines by the Karnatak University, Dharwad, from time to time. The matter presented here is for information purposes only. For latest details, visit the official website of KUD at the URL <http://www.kud.ac.in>)

SEMESTER SYSTEM, DURATION OF THE PROGRAMMES, REQUIREMENTS AND OPTIONS:

- All the under graduate degree programmes shall have eight semesters duration, unless specified otherwise.
- Each academic year shall have two semesters; odd and even semesters. Each semester shall have 16 weeks (06 days per week system) with 90 working days (excluding Sundays and other holidays).
- The Programme shall have multiple exit option at the end of TWO, FOUR or SIX semesters (that is, ONE, TWO or

THREE academic years, respectively) with the award of Certificate, Diploma and General Degree, respectively.

- The candidate availing exit option shall re-enter the programme at the beginning of any academic year to complete the degree with the prevailing syllabi.
- All candidates shall be awarded Bachelor's degree with Honors on successful completion of EIGHT semesters (FOUR academic years) undergraduate programme.

PROGRAMME STRUCTURE

Each programme shall have three components, Viz., i) Discipline Specific Core Courses (DSCC) ii) Elective Courses (EC) and iii) Ability Enhancement Courses (AEC).

A) **Discipline Specific Core Courses (DSCC)**: DSCC are Compulsory Core Courses of the programme.

a. Students of B.A. and B.Sc. shall choose any two DSCC from 1 to 4 semesters.

b. Among such two DSCCs, the student shall select one DSCC as Major and other as Minor course in 5th and 6th semesters. DSCC other than the discipline of the programme shall be considered as Minor and the DSCC belonging to the concerned discipline shall be considered as the Major course. Some of the courses are allowed as Minor courses only.

c. The student shall continue to study the previously opted Major course in 7th and 8th semesters.

d. Once the DSCC is chosen, there shall not be any provision for change of DSCC.

e. For other programmes, Board of Studies (BOS) of the respective programmes shall decide the DSCCs.

B) **Elective Courses (EC)**: Elective Courses shall have three categories, viz., Discipline Specific Core Elective (DSE) Courses, Open Elective Course (OEC) and Dissertation/ Research Project.

- **Discipline Specific Core Elective (DSE):** Elective courses offered under the core discipline of the study are Discipline Specific Core Elective (DSE).
- **Open Elective Course (OEC):** An elective course chosen from any other discipline/subject, with an intention to seek exposure beyond core discipline is called Open Elective Course in all the programmes. The student shall select any one OEC in the given semester, other than his / her DSCC across the discipline
- **Dissertation / Research Project:** An elective course designed to acquire special / advanced knowledge, such as supplement study / support study to a project work, and a candidate shall study such a course on his / her own, with an advisory support of a teacher / faculty member is called Dissertation / Research project.

C) **Ability Enhancement Courses (AEC):** The Ability Enhancement Courses (AEC) shall be of two kinds: i) Ability Enhancement Compulsory Courses (AECC) and ii) Skill Enhancement Courses (SEC).

i. **Ability Enhancement Compulsory Courses (AECC):** Environmental Study, Indian Constitution, English and Modern Indian languages (MIL) / Modern European Language Communications (MEL) are AECCs. Environmental Study and Indian Constitution are mandatory. A student shall study Kannada as First Language and any one of MIL/MEL as second language. A simple Kannada syllabus shall be prescribed for non-Kannadigas, or those who have not studied Kannada at PUC / 10+2 Level.

P. S.: 1) A deaf/spastic/mentally retarded/visually impaired/learning deficiency student shall be exempted from learning any one of the languages like English or MIL. 2) MIL means the languages mentioned in VIII Schedule of the Constitution of India.

ii. **Skill Enhancement Courses (SEC):** These courses shall be chosen from a pool of courses designed to provide value-based

and skill-based knowledge and should contain lab/hands-on training/ fieldwork.

Special provision for independent learners: Apart from the above mentioned structure of the programme, a student can study any number of courses from Open Elective Courses (OEC) / SEC. The student shall have an option to study any number of courses from OEC from SWAYAM or similar platforms recognized by the University.

Credit system of the programme:

Each course shall have two components i) Lecturing (L) and ii) Tutorial (T)/ Practical (P). Tutorial consists of participatory discussions, seminar presentations, and desk work by the students of the respective courses. P.S: There shall be no tutorial for Practical subjects and the courses having 2 credits.

Each programme shall have 176 credits. Credit means the unit by which a course is measured. a) 1 hour lecture or 1 hour tutorial per week is equal to 1 credit and that of 2 hours practical is equal to 1 credit. Tutorial is not mandatory for all the courses. However, the concerned BOS shall decide the necessity for any Course. b) Courses with 3 to 6 credits shall be evaluated for 100 marks and courses with less than 3 credits, including practical, shall be evaluated for 50 marks.

ELIGIBILITY:

A candidate who has passed two-year Pre-University Course (PUC) Examination conducted by Pre-University Education Board, Government of Karnataka, or 10+2 Examination conducted by CBSE or equivalent examinations by any Other State or any other recognized Board / Department shall be eligible for admission to First Semester U.G. Programme.

a) For **B.Sc. Programmes**, a candidate who has passed PUC / 10+2 with Science or Diploma in Paramedical Courses (not less than 2-year duration) shall be eligible for admission.

i. A candidate opting life science subjects like Botany, Zoology, Biotechnology, Genetics, Microbiology, Anthropology, Psychology, Home Science etc, as DSCC in the B.Sc.

Programme must have studied Physics, Chemistry and Biology as prerequisite subjects at the qualifying examination.

ii. A candidate opting subjects like Physics, Chemistry and Mathematics as DSCC must have studied Physics, Chemistry and Mathematics as pre-requisite subjects at the qualifying examination.

iii. A candidate opting Statistics as DSCC for B.Sc. degree must have studied Statistics or Mathematics as pre-requisite subject at the qualifying examination.

iv. A candidate opting subjects like Geology and Forensic Science as DSCC must have studied at least two science subjects as pre-requisite subjects at the qualifying examination.

v. A student of Diploma in Paramedical Course is eligible for Chemistry and any other Life Science subjects as DSCC.

vi. For other B.Sc. degree programmes, such conditions shall not apply.

b) For **B.C.A. Programme**, a candidate with PUC/10+2 Science or Commerce with Mathematics / Business Mathematics / Accountancy / Computer Science or 3-year Diploma with Computer Science / Information Science or 2-year JOC / ITI with Computer Science shall be eligible.

Admission Eligibility for Second and Subsequent Semesters:

a) All U G. Programmes shall have carry-over system up to 6th semester. The admission conditions are:

i. 75% attendance shall be mandatory for each semester and for each course to appear for semester-end examination. Further, 20% attendance shall be condoned for the students participating or involved in Co-curricular/Extra-Curricular activities like NCC/NSS/Sports/Cultural Activities/Study Tours/Field Work/Seminars etc., with prior permission of the Principal of the College in writing.

ii. Candidates with 75% attendance but failing to appear for semester-end examination shall also be eligible to seek the admission for immediate higher semester.

- iii. Mere submission of application by the candidate to appear for examination without 75% attendance shall not be eligible for higher semester.
- iv. Candidates not submitting examination application forms but maintaining 75% attendance shall not be eligible for admission to higher semester.
- v. If the candidate appears for II semester end examination and discontinued for III semester and wishes to take admission for IV semester in future, such candidates shall not be allowed for IV semester. Such candidate shall again seek admission to III semester as per University schedule. This is also applicable to other odd semesters.
- vi. A candidate who does not satisfy the requirement of 75% attendance even in one Course (subject/paper) shall not be permitted to take the University examination of that semester and he/she shall seek re-admission to that Semester in a subsequent year as per University schedule.

Eligibility for admission to Bachelor's Degree (Honors):

A candidate seeking admission to a Bachelor's degree (Honors) in a specified field of learning shall have passed the relevant three-year bachelor's degree with minimum CGPA of 7.5 is eligible to continue the fourth year undergraduate programme.

- vii. A candidate can seek admission to the 7th Semester in any College running Honors Programme subject to the availability of intake capacity of such Major Courses in the College.
- viii. There shall be a provision for carryover system from 7th to 8th semester, subject to the fulfillment of 75% attendance in each Course and submitting the examination application form. The Degree of 3 or 4 years shall be awarded from the University where the candidate has earned a minimum 50% of the credits prescribed for the programme.

Medium of instruction:

The medium of instruction shall be Kannada/English as decided by the concerned BOS. However, the candidate can write the examination either in English or Kannada.

Change of Programme:

Every U. G. Programme is specific in nature and hence, there shall not be any provision to change the programme.

Change of subject / DSCC:

- a) The MIL/MEL subject studied by the Students in I semester shall be the same for all other semesters as per programme structure.
- b) The DSCC chosen for I semester for B.A. and B.Sc. shall remain same for all other semesters as per programme structure and hence, there shall not be any provision to change the DSCC.

Change of College/Transfer:

- a) Candidate shall be permitted for change of college only for the odd semesters by seeking admission within the stipulated period mentioned in the admission notification with the due consent from both the colleges. There shall not be any provision for transfer/change of college for even semesters. Further, lower semester examination failure/MPC candidates are not eligible for transfer/change of college within the Karnatak University's affiliated colleges.
- b) The same shall be applicable for the candidate seeking transfer from the colleges of other University within or outside the state or country by producing the eligibility certificate issued by Karnatak University with the confirmation of similarity of the programmes with each other. Other conditions shall be same as in (a).
- c) Such transfer of admission shall be within the intake capacity of the respective class/ subject of the respective College.

Examination

The prescribed courses of 3 to 6 credits shall be evaluated for 100 marks and that of less than 3 credits, including practical, shall be evaluated for 50 marks. The project work / dissertation shall have 6 credits and be evaluated for 100 marks.

There shall be a **continuous assessment** of the student. For this purpose, semester examination is divided into two components:

i. Internal assessment - written examinations conducted by the College for 20% of maximum marks allotted for each Course; and

ii. Semester-end written examination conducted by University after 16th week of the commencement of semester for 80% of the maximum marks allotted for each Course.

Internal assessment (IA) examinations:

i. Theory Papers: The College shall conduct IA examination for theory subjects in the 8th week for 10% and 12th week for remaining 10% of maximum marks allotted for each Course. Duration of examination shall be 1 hour each.

ii. Practical: The College shall conduct IA examination for practical paper in the 14th week for 20% of maximum marks allotted for each Course. Duration of examination shall be 3 hours.

iii. Project work /dissertation: The College shall conduct written IA examination for Project work /dissertation in the 14th week for 20% of maximum marks allotted for each Project work /dissertation. Duration of examination shall be 1 hour.

iv. The course teacher shall display the marks on notice board within 4 days after IA examination and allow the student for verification of IA Booklet if he/she wishes. Grievances shall be solved by the course teacher and in complicated cases by the Principal/ representative of Principal as per internal mechanism of the College.

v. There shall not be any provision for improvement of IA marks or for remaining absent. However, IA exam shall be conducted for students who remained absent due to participation in the events related to co curricular / curricular activities conducted by recognized organizations.

vi. The college shall submit the IA marks to the University if student satisfies 75% attendance in the semester and shall be eligible to appear for semester-end examination.

Semester-end examination:

The semester-end examination, for 80% of maximum marks allotted for each paper, shall be conducted by the University after 16th week of the commencement of the semester. The University shall conduct the semester-end examination for either odd or even semesters but not both simultaneously, unless otherwise specified.

i. Duration of theory examination shall be 03 hours for 100 marks per Course (including IA marks) having 3 to 6 credits.

ii. Duration of theory examination shall be 1.5 hours for 50 marks Course (including IA marks) having the credits of less than 3.

iii. Duration of practical examination shall be 3 hours for 50 marks Course (including IA marks) having the credits of less than 3.

iv. Each BOS, in consultation with the concerned Faculty, shall decide the pattern of question paper for uniformity for all the core courses and elective courses.

v. Question papers shall be prepared by a team of members of respective Board of Examiners (BoE).

vi. Concerned BoE shall decide the scheme of valuation of both theory and practical courses.

vii. There shall be a single valuation for theory papers from the members of concerned BoE under the supervision of moderator who is in turn under the supervision of Chairman of BoE.

viii. Practical/evaluation of project/dissertation work/Field Work assessment shall be conducted before the commencement of theory examination at the concerned colleges by two examiners; one from the same college as internal examiner and other from other colleges appointed by University as external examiner. There may be two external examiners but not two internal examiners to conduct the examination. A pair of

examiners shall conduct practical examinations for two batches per day having a maximum of 12 students in each batch.

Passing criteria:

a) A candidate has to score 40% in each course including the IA marks for passing the course, subject to the condition that:

i. There shall be no minimum marks or separate passing for the IA examination. The candidate has to score minimum 40% in the semester-end examination (Ex. for 100 marks paper; 20 IA + 80 semester-end exam and hence, minimum 32 marks for semester-end exam required). If candidate scores 40% by adding the marks obtained from IA and semester-end examination but fails to score 40% from the semester-end examination, such candidate shall be declared as fail.

ii. If the course is having both theory and practical, candidate has to pass both theory and practical independently. If the candidate fails in practical and passes in theory examination, such candidate shall reappear for practical examination only and vice versa.

iii. In all cases of failure in particular course, IA marks shall be protected and carried forward; and the candidate need not reappear for IA examinations in such cases.

b) On successful scoring of minimum 40% in all courses, the candidate shall be declared pass in the programme in that semester.

c) On successful scoring of minimum 40% in all courses and all the semesters, the candidate shall be declared pass in the entire programme.

Possible combinations under NEP for B.Sc. Degree at KSCD:

Please see Annexure 2 and Annexure 3 in the last few pages of this prospectus, for the necessary details, including fee structure for different subject combinations (for 2023-24)

GENERAL INSTRUCTIONS TO STUDENTS

- Students are informed to submit the fees remittance challan to the admission committee on the day of remittance of fees into the bank, failing which their admission in the college is not confirmed.
- The students are required to bring their identity cards and hall tickets at the time of all tests and examinations.
- The students should retain their identity cards with them in the college campus. Presentation of the identity card is essential for obtaining certificates, scholarship amount, caution money, etc.
- If the student loses his / her identity card, he/she has to apply for the issue of a duplicate identity card by paying a fee of Rs. 50/- and explaining the circumstances of the loss of identity card.
- The students who are required to participate in the activities of the college such as debates, exhibitions, sports, meetings, NCC, NSS activities and other extra-curricular activities are required to submit an application through the concerned staff and get prior permission from the Principal for condoning their absence for classes.
- The students are required to attend all tests, seminars, practicals and theory examinations to be conducted by the college. If the student remains absent without valid reasons and without obtaining the prior permission of the Principal they will be liable for fine and disciplinary action.
- If the students are likely to remain absent due to unavoidable circumstances, they are informed to submit an application duly endorsed by their parents/guardians explaining the causes. Medical certificates should be submitted at the time of illness and not after recovery.
- All applications for fee concessions, Scholarships, free ships, prizes etc. should be submitted with necessary documents such as caste certificates, income certificates, affidavits, true copies of marks card, etc. before the last day fixed for the admission process (which will be announced in advance). If the applications with necessary documents are received late, such applications will not be forwarded and the concerned

students are liable for payment of all fees due to the college. No excuse will be entertained in this regard.

- All the extra-curricular activities such as sports, debates, general functions, etc will be conducted by the Study Circles, Science Association, NCC, NSS, SWO and other associations and Gymkhana Departments. These bodies would be meeting periodically to chalk out the programs. The students are required to send their suggestions through the student representatives or the members of staff so that functions will be meaningful and useful to the students.
- The curricular activities such as seminars, symposia, lectures by experts among many other such activities will be organized through the subject Study Circles, which cater to the needs of respective students.
- Chief Editor will look after the College Miscellany. The students are informed to contribute articles on science and General Topics. They are also requested to send their suggestions for the improvement of the Miscellany directly to the Editor.
- Student representatives will be nominated by the committee constituted by the Principal. There will be no Election to the College Gymkhana Departments and Academic Associations.
- Students are informed not to move in the corridor and disturb other classes. If they do not have classes they are advised to be either in the Library or in the Student's Home.
- The students are informed to maintain perfect discipline in the College campus.
- The students are advised to be in constant touch with the Students Welfare Officer/other members of staff for any of their difficulties.
- The students are advised to co-operate with college authorities in maintaining the college campus clean and green.
- The students are required to participate actively in all activities of the college.
- The students must obtain the prior permission of the Principal before publishing and supplying information to the press or

any other agency in connection with the college. Failure to do so will attract disciplinary action against them.

SCHOLARSHIPS AND PRIZES

Every year, students are awarded the following scholarships and prizes by the college.

- Category - 2A, 2B, 3A, 3B Scholarships.
- SC/ST Scholarships.
- Rural Scholarships.
- Scholarships for Physically Handicapped.
- National Merit Scholarships.
- Sanskrit Scholarship
- Urdu Scholarship
- Scholarships for ex-servicemen
- Goud Saraswat Brahmin Scholarships.
- Lingayat Students Scholarships.
- Nijalingappa Nidhi Scholarships.
- College Open Merit Scholarships: 10 scholarships for each class.
- Karnatak College Golden Jubilee Prize.
- Sir Siddappa Kambali Prize
- Karnatak College Platinum Jubilee Cash Prize
- Dr. G. V. Joshi Cash Prize
- Dr. M. M. Joshi Cash Prize.
- Smt. Sheriffa Begum Nawab Cash Prize
- Smt. Kamala Balekundri Cash Prize.
- Prof. (Smt.) Vidya Sapre Choudari Prize
- Lt. Col. R. S. Desai Cash Prize
- Smt. Gangubhai Desai Cash Prize
- Botany Teachers Cash Prize
- Late Shri Parasuram F. Kolkar Cash Prize.

The details about these Scholarships, including application forms and other information will be available in the College Office.

Alumni Association

Karnatak Science College Dharwad is proud to possess an illustrious list of alumni. The alumni of KSCD (the undivided Karnatak College Dharwad was well known as KCD, and the people of this region still recognize both KACD and KSCD by the brand name “KCD”) have distinguished themselves in various spheres of activity. KSCD acknowledges that its alumni form an important part of its development, progression and that the alumni have a vital role to play in the present and future of the college, by formulating appropriate strategies for its development. KSCD looks forward to an increasing involvement of alumni in its day to day activities. The suggestions by alumni for the development of KSCD are solicited by the administrators, staff and students of the college.

The alumni of Karnatak Science College, Dharwad are requested to fill up the application form for registration (Alumni Registration Form) and send the same to Dr. J. T. Gudagur, Secretary of the Alumni Association at the Email address jagadishgeo@gmail.com. Mobile number of Dr. Jagadish T Gudagur is +91 9448760054. He can be contacted for further details about the alumni association. At present, the life membership fee is Rs 500/- (It is Rs 250/- for those who are still studying; that is, for the past students of KSCD who are pursuing higher studies). Additional amount can be paid as donation to the alumni association, after consulting the President and Secretary of the association. The QR code and bank account details follow.

Alumni association fees and donation QR code:



The executive committee of the Alumni Association meets frequently in order to prepare a programme of its planned activities, in addition to offer assistance for the development of the college and suggestions for improvement. All matters of interest related to things that are useful to the college are discussed in the Alumni meetings.

The General Body (GB) meeting of the Alumni Association is held once, every year or sometimes twice in a year; the dates, venue and timing of such meetings are published in the local newspapers. All the past students of Karnatak Science College, Dharwad are requested to attend the GB meeting and offer their constructive suggestions for the development of the College.



Dr. J. T. Gudagur, Professor, Department of Geology, Karnatak Science College, Dharwad is the Chairman of Alumni Association of KSCD, at

present; Email:jagdishgeo@gmail.com; Cell number: 6363587787,
9448760054

SCHEME OF EXAMINATION (FOR OLD/ CBCS SCHEME)

There shall be an examination conducted by the University at the end of each semester. For the odd semesters it will be in the month of November/December and for the even semesters it will be in the month of April/May as notified by the University from time to time.

The candidates who fall in any odd or even semester and also who intend to improve the performance shall appear for the respective examination only when such odd or even semester exams are conducted in the subsequent academic years.

Marks for the Theory and Theory Internal Assessment Test for the each paper shall be 80 and 20, respectively. In case of practical and Lab Internal Assessment Test marks shall be 40 and 10, respectively. Duration for the examination of theory papers and practicals shall be 3 hours and 4 hours, respectively.

Practical examinations in different subjects shall be conducted by the University at the end of each semester. The candidate shall submit the record book for practical examination duly certified by the course teacher and the H.O.D./Staff in charge. Practical examination includes viva, evaluation of lab records, reports of field work, study tour, Project work etc.

Each paper of 100 marks shall carry 20 marks as Internal Assessment(IA). Out of the 20 marks, 10 shall be internal test and remaining 10 shall be for assignments/class records/skill development in the case of the old scheme; this is modified for CBCS scheme, wherein 20 marks are allotted for internal assessment tests, whereas no marks are allotted for home assignments. In each paper two tests for one hour each shall be conducted for the award of IA marks for a maximum of 20 marks reduced to 10 marks later.

First test shall be conducted in 8th week and second test in 12th week of the respective semester. The average marks obtained in the two tests for 10 marks shall be taken as final Internal Assessment marks for the test component. The award of IA

marks for assignments/class records/skill development shall be based on the submission of the same by the candidates duly certified by the concerned teacher. IA marks shall be displayed on the notice board one-week prior to the commencement of semester end examination. There shall be no provision for improvement of IA marks.

Practical examination paper of 50 marks shall carry 10 marks as Internal Assessment. Practical test will be conducted at the end of each semester by the college carrying 10 marks.

A candidate shall be declared to have passed a semester end examination only if he/she obtains not less than 40% marks (32 marks out of 80 for theory and 16 marks out of 40 for practicals) in the semester end examination for the theory examination shall have appear for practical only and vice versa.

A candidate who fails in any paper under Group I, II and III shall take the examination only in the failed papers at any specific examination within the period of six years from the date of registration to the semester I.

Percentage of marks for declaring class is based on the aggregate marks obtained in the optional subjects in all the six semesters. For Distinction, the candidate should score 70% and above. For First class, the candidate should score 60% and above but less than 70%. For Second class, the candidate should score 50% and above but less than 60%. For Pass class, the candidate should score 40% and above, but less than 50%.

Only those candidates who have studied and completed all the VI semester in the first attempt itself within the stipulated period of 3 years in Karnatak University, shall be eligible for ranking provided they score 60% and above marks.

The students, who intending to improve his/her performance in one or all paper of the respective semester after the declaration of said semester is allowed to do so, subject to the payment of fees as stipulated by the University, and only at the time when the examination such semester conducted next time. Such students may improve their performance in the desired papers along with the papers in which they have failed, as per existing

syllabus prevailing at the time of examination of the respective semester.

The students are not eligible for applying for the improvement of their results in respect of internal assignments, practical, project reports, viva, field work etc. if any. The student who applies for improvement shall not be eligible for the award of any rank, prize gold medal on improvement of his/her performance. The students allowed to apply for improvement of his/her results only once in any semester, in respect of any or all papers. Application for improvement shall be submitted by the students through the principal of the college to the Registrar Evaluation along with prescribed fees and the necessary documents on or before the last date prescribed.

UG and PG DEPARTMENT OF CHEMISTRY

Chemistry is a universal and dynamic subject. The importance of Chemistry is that it serves as the interface to practically all the other life sciences as well as physical sciences, and also to many other areas of human health and organism's endeavors. For this reason, chemical science is often said to be the "central science". The emerging trend in chemical research is the synthesis of products or chemicals and involving technologies that are environmentally friendly, which is a great achievement of contemporary researchers in chemical sciences, as in some cases it helps to sustain the environment.

FACULTY MEMBERS OF UG & PG DEPARTMENT OF CHEMISTRY, KARNATAK SCIENCE COLLEGE, DHARWAD

Dr. (Mrs) M. S. Salunke

Professor

Area of Specialization:

Inorganic chemistry

Email: mssalunke@gmail.com



Dr. S. D. Dhumwad
Professor
and Head of the Department
Area of Specialization:
Inorganic chemistry
Email: dhumwadsd@gmail.com



Dr. S. M. Tuwar
Professor
Area of Specialization: Physical chemistry
Email: sm.tuwar@gmail.com



Dr. (Mrs) V. A. Aminabhavi
Associate Professor
Area of Specialization: Physical chemistry
Email: vidyaaminabhavi@gmail.com



Dr. O. Kotresh
Professor
Area of Specialization: Organic chemistry
Email: kotresh.obelannavar@gmail.com



Dr. R. G. Kalkhambkar
Assistant Professor
Area of Specialization: Organic chemistry
Email: rgkalkhambkar@gmail.com



Dr. (Mrs) Jayalakshmi K.

Assistant Professor

Area of Specialization: Physical chemistry

Email: jayatheertha_xrdlab@yahoo.co.in



Dr. K. S. Katagi

Associate Professor

Area of Specialization: Organic chemistry

Email: kskatagi@gmail.com



Dr. (Mrs) S. P. Masti

Associate Professor

Area of Specialization: Inorganic chemistry

Email: dr.saraswatimasti@yahoo.com



Dr. S. K. Rajappa

Assistant Professor

Area of Specialization: Industrial chemistry

Email: drrajappask@gmail.com



Non-teaching staff:

Mrs. Geeta Harutekar (OS)

Shri. M.A Agadi (Sr.Lab Asst.)

The Department of Chemistry, which is one of the vibrant departments of Karnatak Science College, Dharwad was established in 1924. At the beginning, under the leadership of eminent chemists Prof. Alim Chandani and Prof. K.S.Nargund, the department grew to greater heights. Since then, it has trodden the path of more than nine decades. The department is enriched with ten scholarly permanent teachers with doctoral degree and 16 teaching assistants. The department has well equipped laboratories and an independent library, the latter with more than 5100 books and equipped with ICT facility serves about 80 students pursuing their Post graduate degree in Chemistry, 600 students studying in the undergraduate (B.Sc.)

course and 25 students under Ph.D. program. A few under graduate students of the department have undergone training in National and International reputed institutions like JNCASR, IITs and NCL. Majority of the faculty members are recognized as Research Guides by the Karnatak University, Dharwad. The department possesses basic research amenities, including several sophisticated instruments required for research activities. The department has received funds for implementing various research projects, by funding agencies like VGST, UGC, DST, and SERB. In addition to research projects, some of the faculty members have received awards for best publications from VGST (Govt. of Karnataka) and young scientist awards from Indian Chemical Society and other reputed organizations. As on date, the faculty members of this department have published more than 300 research papers in highly reputed journals of good impact factor (up to 9), and 18 students have completed their Ph.D. degree from KUD under the supervision of the faculty members of the Department of Chemistry, KSCD. The department has additional activities under the banner of Madam Curie study circle, in which students will get an opportunity to visit chemical industries which are highly relevant in day to day life, viz., sugar industry, Paper industry, Nuclear power plant (Kaiga). This helps students to get necessary exposure to the industry environment as well as to corporate life, to consider the option of becoming independent entrepreneurs. The students get a chance to involve in extracurricular activities, such as exhibitions, seminars, quiz programs, debates and essay writing; they also interact with eminent scientists from various institutes through programmes conducted under the banner of the Madam Curie study circle. Teachers and students also conduct scientific awareness programs in the nearby villages and also arrange educational programs for high school and primary school children.

M.Sc. (General Chemistry) at KSCD

The Post Graduate course was established in the year 2009 under the able leadership of the then Vice chancellor Dr S.K Saidapur. This is the first P.G centre in the Northern part of Karnataka. The

course was introduced with Organic Chemistry specialization and later, in the year 2011-12 it was converted to General Chemistry. In the last decade, the PG department of Chemistry has grown with its academic power providing quality education to students coming from various parts of the Country and also has been instrumental in providing employment to various candidates, both in teaching and non teaching (technical) area.

The P.G department has independent three well established laboratories functioning for Inorganic, Organic, Physical and Analytical chemistry experiments. The department faculty is thoroughly engaged in training the students to not only meet their P.G curriculum, but also train the final year students for the campus placements. The PG department in Chemistry aims for giving knowledge to all the students to achieve excellence. Further, it aims to develop collaboration with various industries as well as National and International Research Organizations for the overall development of the students.

Research Profile of the Department of Chemistry, KSCD

Among the various departments in the faculty of sciences, the department of chemistry which is established in 1924 is one of the most active departments in research; it has good reputation as the center of academic and research activities in the college. The active involvement of the faculty in research activities is well evident from receipt of grants from various funding agencies like VGST, UGC, DST, and SERB. As an outcome, there is evidence of over 200 research publications in highly reputed journals of good impact factor. In addition, the department has conducted many national and international conferences and workshops to discuss and learn about latest advancements and novel approaches in all the branches of chemistry.

For further details, contact:



Dr. S.D.Dhumwad, Professor and Head, Department of Chemistry, KSCD; E Mail: dhumwadsd@gmail.com; Mobile number: +91 9449188294; Landline: +91 836 2215403

DEPARTMENT OF BIOTECHNOLOGY

The Department of Biotechnology was started in the year 2002 as a division of the department of Chemistry in KSCD. Biotechnology is a subject which deals with the technologies applied to biology, molecular biology, genetics and many other sub-fields of biology. Biotechnology utilizes cellular and bio-molecular processes to create technologies and products that help to improve our lives and the nature. In homes, we prepare useful food, such as bread and cheese, and preserve dairy products. Recent biotechnology develops breakthrough products and technologies to fight diseases, reduce our environmental harm (carbon footprint), and feed the hungry, use less and cleaner energy, and have safer, cleaner and more efficient industrial manufacturing processes. The Biotechnology section is sheltered within the Chemistry building, with well equipped laboratory, classroom and library. It is evolving in strength and facilities day by day to reach the requirements of young minds. The department of Biotechnology was started with an initial admission of 22 students; at present, the department has 90 students who are pursuing their Bachelor's degree. The department caters to the needs of the students by organizing regular lectures and conferences by eminent personalities; also, as a part of the curriculum, the department of Biotechnology organizes industrial visits to research institutes and industries, for enriching the academic knowledge of students. The department has produced good number of students who have

achieved greater heights in their research field, during their doctorate and post doctoral studies in India and abroad. The department of Biotechnology has taken special care to develop a library in which several books and volumes are added every year. Students make use of these books regularly, which is issued for home study at their convenience, in the departmental library. The department has its own well equipped laboratory for students to enhance their practical knowledge under the supervision of the respective teachers. The equipments which are present in the department of Biotechnology includes Cooling Centrifuge with Rotary Head, Photo-electric Colorimeter, Advanced Microscopes, Binocular Microscopes, Electrophoresis Kit, Rotary Shaker, Laminar Air Flow, Autoclave, Incubator, Refrigerator, Tissue Culture Rack and Hot Air Oven.

Careers in Biotechnology:

The areas in which students who study Biotechnology can work are as follows: Bio-manufacturing Specialist, Bio-production Specialist, Research & Development Scientist, Process Development Scientist, Biomedical Engineer, Biochemist and Biophysicists, Medical Scientist, Bio-manufacturing Specialist, Bio-production Operators, Medical Scientist, Bio-technological Technician, Epidemiologist, Medical & Clinical lab technologist and technician, among many others.

Biotechnology Companies in India:

Serum Institute of India, Biocon, Panacea Biotec Limited, Dr. Reddy's Laboratories Limited, Wockhardt, GlaxoSmithKline Pharmaceuticals Limited, Bharat Serums & Vaccines Limited, Novozymes and Indian Immunologicals Limited are few of the famous biotechnology companies existing in India. The Biotechnology section was started as a dream child of the Chemistry department in the year 2002, with Dr. V. H. Arali as the first Coordinator. At present the Coordinator for Biotechnology is Dr. K. S. Katagi, Associate Professor and, Department of Chemistry, KSCD

For further details, contact:



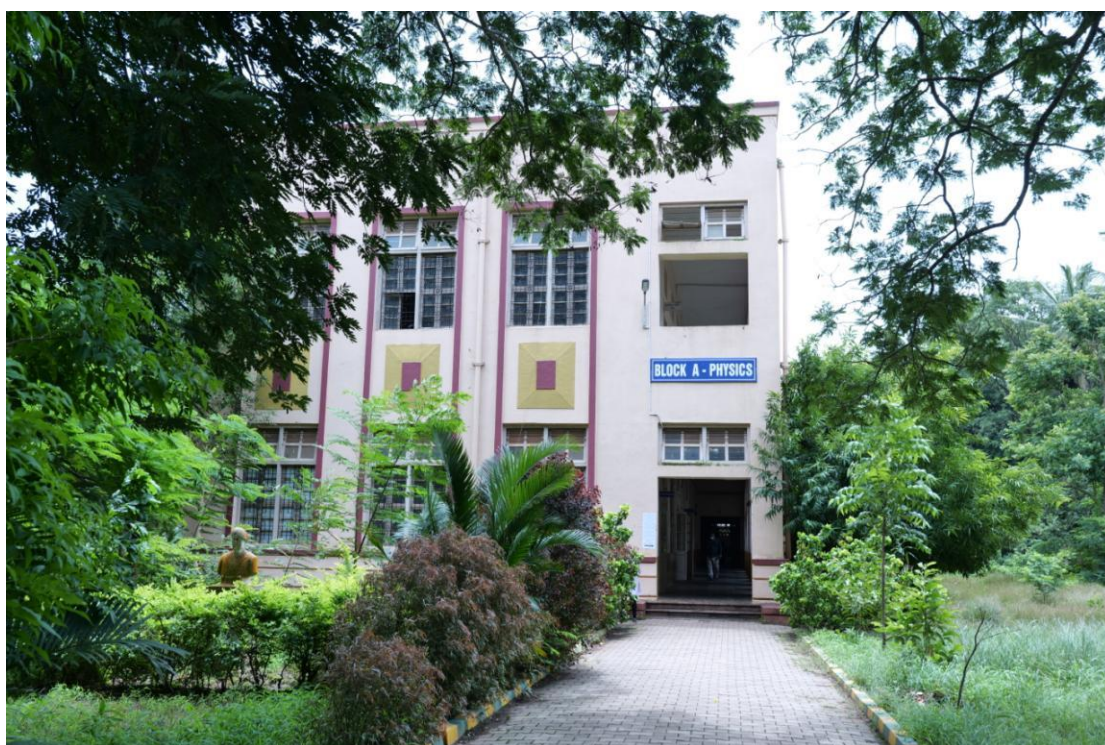
Dr. K. S. Katagi, Associate Professor and Coordinator,
Department of Biotechnology, KSCD
E Mail: kskatagi@gmail.com
Cell number: 9916248809

UG and PG DEPARTMENT OF PHYSICS

The building of Department of Physics, KScCD occupies a prime position at the entry of the college from main gate, a bit away from the College Road, distanced from it by the garden (park) and the football ground. Physics, Electronics and Computer Science are the optional subjects taught here. In addition to the under-graduate (UG) or B.Sc. Courses, a post-graduate (M.Sc. Physics) was started in the year 2011 and has been successfully conducted on “self- finance” basis with two specializations, namely, Nuclear Physics and Condensed Matter Physics.

All the faculty members have supervised the M.Sc. (Physics) project work done by PG students of the department. Most of the faculty members in the Department are active in research, in addition to their teaching duties. Dr. G. H. Malimath and Dr. Blaise Lobo are recognized by the KUD as Ph.D. guides, working in the areas of fluorescence spectroscopy and materials science (polymer physics), respectively. They have already guided four students (two each) successfully for the Ph.D. degree, and several students (eight students) are working towards their Ph.D. degree under their guidance.

The faculty members of the department (Dr. Blaise Lobo, Dr. Geeta Chavan, Dr. Smt. Nirupama J. M. and Dr. Smt. Reshma Nesargi) have successfully completed Major and Minor research projects funded by the University Grants Commission and using start - up funds (seed-money) from KUD.



Side entrance to the building which houses the Department of Physics, including Electronics and Computer Science laboratories.

The faculty members of the Department of Physics routinely attend National and International Conferences to present their research work. They also have attended faculty development programmes to update their knowledge and skills, both for teaching and research. The department always keeps its door open for reach - out activities, and high school teachers in the region have benefited from this. The students of the department are encouraged to engage in extra- curricular activities, like for example, demonstrations using project and experimental work (exhibitions), Seminars, Quiz programs, Debates and Essay writing. Special lectures and workshops are arranged for the benefit of students in the Department by the Einstein Study Circle (the physics study circle of the Department of Physics), which is headed by a faculty member (Dr.(Smt.) Nirupama J M).

Students who have the necessary aptitude and temperament are encouraged to take up research activities as an extra-curricular project work at the UG level. The faculty of the department extends their services to monitor the practical (laboratory work)

in Physics of the pre-university section of the college. The Department has a library with a good collection of books on Physics, Electronics and Computer Science, which is maintained by a lady librarian. The books from the library are issued to students, for home study. In addition, there is a good seating arrangement in the departmental library, using which the students can refer books in the reference section of the Departmental library as well as access the high speed WiFi internet facility available in the department.

In addition to permanent faculty members, the extra-workload in the department of Physics is handled by teaching assistants (TAs) and guest faculty (GF). For the PG (M.Sc.) course in Physics, there are four TAs, whereas there are two TAs and two GF for UG (Physics), two TAs and one GF for UG (Electronics) and four TAs for UG (Computer Science).

**FACULTY MEMBERS OF THE DEPARTMENT OF
PHYSICS, KARNATAK SCIENCE COLLEGE,
DHARWAD**

Dr. G. H. Malimath

Professor & Co-ordinator of PUC Course

Area of Specialization:

Fluorescence Spectroscopy, Nanoscience

Email: guru_kcd@gmail.com



M.R. Ranganath

Associate Professor

and Head of the Department

Area of Specialization:

Nuclear Physics

Email: mannekote@gmail.com



Dr. Blaise Lobo

Professor & Head

Area of Specialization: Nuclear Physics,
Polymer Physics,

Spin offs of Nuclear Physics
in Materials Science, Radiation Physics

Email: blaise.lobogmail.com



Dr. (Mrs) Nirupama J. M

Assistant Professor

Area of Specialization: Nuclear Physics,
Fluorescence Spectroscopy

Email: nirupamajmgmail.com



Dr. Geeta Chavan

Assistant Professor

& Coordinator of B.Sc. Electronics

Area of Specialization: Nuclear Physics,
Materials Science (Ferrites)

Email: geetachavan1gmail.com



Dr. (Smt.) Jyothi S Doddamani

Assistant professor

Area of Specialization:

Condensed Matter Physics

Email: jyothimk1gmail.com



Dr. (Mrs) Reshma A Nesargi

Assistant professor

Area of Specialization:

Condensed Matter Physics

Email: reshma.nesargigmail.com



Non-Teaching Staff:

1. Smt. Vijaya Khanadali, OS (Lab & Stores)

The P1 gallery hall in the building which houses the Department of Physics is not just used for conducting classes, but it is also utilized to conduct departmental functions and programs like seminars and special lectures. The department has LCD projector facility for conducting classes and seminars. There are two degree laboratories for UG (physics), one for UG (Electronics) and one laboratory for UG (Computer Science), in addition to the M.Sc. (Physics) laboratory. The PUC laboratory on the ground floor of the Department of Physics is also utilized for conducting UG practical classes whenever there is vacation for the PUC course. The best practices followed by the faculty of the department of Physics include the sharing of ideas, charts and study materials with colleagues of other colleges, to help them conduct experiments in their laboratory and the conduct of National Graduate Physics Examination (NGPE) organized by Indian Association of Physics Teachers (Smt. Jyoti Doddamani is presently the Professor in-charge for NGPE from our college). One of the salient features of the Department of Physics is avoiding the use of ready-made kits for experimental work (as they have less practical or experimental learning or pedagogical value), but the design of experiments by the faculty members themselves, using in-house facilities.

The Office in the Department of Physics, KSCD is maintained by an office superintendent (O.S), on the direction of HOD (Physics) and other higher authorities. He is supported by other office staff and peons, who have been appointed on contract basis. In addition, five laboratory assistants and five laboratory attenders are working on contract basis in the department.

DEPARTMENT OF ELECTRONICS

Electronics Section in the Department of Physics

Electronics is one of the fastest expanding fields in research, application development and commercialization. Electronics is the branch of Physics that deals with flow of electrons and their effects in vacuum, gas or a semiconductor. There is no field

without the role of an electronic device. Electronic devices are applied in a wide range of areas like for example, the checking savings account at bank, automobile insurance, credit cards, airline tickets and in communication. Most of the parts used in the space shuttle, satellite power supplies, aircraft power management and some mind blowing innovations such as Robotic Arm, Robotic Check-Ups, Bionic Eye are electronic devices.

Electronics is used in medical instrumentation like NMR, ECM, X-ray, Needle-Free Diabetes Care, Blood gas analyser, Medical glucose Monitor, Electronic Brain Wave Machine, Medical heart monitors, Infrared and Digital Thermometers, Defibrillator, Sphygmomanometer etc. Electronics has also applications in utility systems such as High voltage DC Transmission, VAR compensation, Static circuit breakers, Solar, wind power management system, Smart grid system.

Electronic devices and gadgets are widely used for the commercial purpose such as Telephone, Air conditioning, heating, Digital Advertising, power supplies, Personal computer, MP3s, office equipment, light dimmer, uninterruptible power supplies (UPS) etc. Electronics is now part of our everyday life, from the mobile phones to televisions, computers and even the high-end advanced satellites that are helping us to lead a smooth life. Ever since the evolution of technology, Electronics has become an essential discipline which is required by all the industries. Hence, Electronics is one of the most sought after branches by students.

Electronics Division was started in the Department of Physics in the year 1994. UG students with PME combination are trained by NET/SET qualified teachers. This division has all the necessary infrastructure and instruments such as Microprocessor training kits, Fibre optic communication training kit, Computers, Arduino training kits to train the students as per new National Education Policy 2020. Students learn Communication Electronics, basic principles of digital communication systems,

basics of information theory using Fourier transforms and the sampling theorem and experiments using MATLAB, which would be beneficial particularly to students who are interested in doing research in the fields related to communications, networks and signal processing. Students also learn the technology of fiber optical communication system, a balanced discussion between component operation and system design consideration, performance parameters and fabrication problems, lasers, LED modulation and detector responses. This course will cater the needs of the students to develop the knowledge and skills in the field of electronics.

Skill Enhancement Experiments taught in the course:

A) Embedded Systems experiments using microcontroller/Arduino:

An embedded system is a combination of a computer processor, computer memory, and input/output peripheral devices that perform some specific task within a larger mechanical or electronic system. The Students learn to interface different modules with Arduino like stepper motor, LCD, GLCD. Interfacing different modules will provide all information about coding and protocols regarding peripheral and programming. This course has career opportunities in Medical electronics and automation industry, automotive industry, Robotics Industries and Cyber security.

B) PCB design and simulation Experiments:

Students learn modeling methods and simulation tools and learn to simulate electronic circuits and prototype Printed Circuit Boards (PCBs). This is a basic course for designing of PCB using software. PCB designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade.

The Electronics students in the Department of Physics, K.Sc. C. D are provided access to a large number of standard Electronics books which are available in both the Departmental library as well as the centralized Dr. V. K. Gokak library. The library in

the building hosting the Electronics Section (Department of Physics) has a collection of 701 good text books and reference books on Electronics. The books recommended by the staff members in the last few years are managed by the librarians of Dr. V. K. Gokak library.

**For further details regarding Electronics (Optional Subject),
Contact:**



Dr. (Smt.) Geeta N Chavan

Co-ordinator of the Electronics Section and Assistant Professor,
Department of Physics, Karnatak Science College, Dharwad.

E Mail: geetachavan1@gmail.com

Cell phone number: 9686693964

**M.Sc. (Physics) course conducted by the Department of
Physics, K.Sc.C.D.**

The M.Sc. Physics Course was initiated in the year 2011 in the Department of Physics KSCD, on a self-finance basis. The course is managed by the HOD ((Physics), KSCD, on the direction of the Principal of the College. The course has been a success, with several batches of students coming out with their M.Sc. Degree in Physics, with either Nuclear and Particle Physics (NPP) or Condensed Matter Physics (CMP) as specializations. The permanent faculty members of the department handle classes as well as supervise the Project Work done by the M.Sc. (Physics) students, supported well by four teaching assistants. Expert Professors from different Universities are invited to deliver lectures to these students.

The M.Sc. Physics laboratory is well equipped with all the necessary instruments, in order to perform the experiments suggested in the PG syllabus framed by the BOS in Physics,

Karnatak University, Dharwad. In addition to the infrastructure available in the department, the students use the research facilities available at the USIC of KUD to complete their project work. The Department has a separate PG library section which is managed by the non-teaching staff of the department; the students and teaching staff members are issued books, to study at home. In the last few years, the Dr. V. K. Gokak Central Library has taken the responsibility of procuring books required by the M.Sc. (Physics) students of the department. Some students of the department have cleared their UGC (NET and JRF) as well as SLET qualifying examinations, which make them eligible to become Assistant Professors as well as pursue research on fellowship (JRF).

Admission procedure for M.Sc (Physics) course:

The entire admission procedure is carried out by the Department of Physics, Karnatak University, Pavatenagar, Dharwad as per the merit - cum - roster policy of the Government of Karnataka. In order to get admission into the department, the students should submit an application with required documents to the Department of Physics, Karnatak University, Dharwad during the period of that academic year mentioned by the University and advertised in the KUD website (<http://www.kud.ac.in>) under the menu item, "Notifications". Later an entrance examination may be conducted and seats will be allotted based on the merit list, strictly following the reservation policy of the Government of Karnataka, taking into consideration the performance of the student in both undergraduate examinations as well as the entrance test conducted by the concerned department of the University (KUD).

Library in the Department of Physics, Karnatak Science College, Dharwad:

The library in the Department of Physics contains a good number of reference books and text books on Physics, Electronics and Computer Science. There is a seating arrangement for students to study the books referred from the library. Students are also given books to study at home, which

they return (or renew) after a week. There are 4253 books on Physics, 701 books on electronics and 775 books on Computer Science in the Departmental library. In addition to books for B.Sc. (Physics), several standard books at the M.Sc. (Physics) level and above are available in the Departmental library. In the last few years, the books purchased from the Departmental budget provisions for B.Sc. (Physics), B.Sc. (Electronics), B.Sc. (Computer Science) and those purchased from the PG (Science Courses) budget are kept in the Central Dr. V. K. Gokak library at KCD.

For further details, contact:



Dr. Blaise Lobo

Professor and Head,

UG & PG Department of Physics,

Karnatak Science College, Dharwad 580001

Email: blaisefranklobo@gmail.com

Cell Phone Number: 9980250761, 9844145087

DEPARTMENT OF FORENSIC SCIENCE

The Department of Forensic Science (Criminology) was established under the leadership of Shri. K. P. Venkateshmurthy, I.P.S., in the Karnatak Science College, Dharwad in 1965. It was the first such Department (focusing on Criminology and Forensic Science) in South India. The Department offers Criminology and Forensic Science as optional subjects for B.A. and B.Sc. Degree courses, respectively. The Department is presently housed in a separate building, with two spacious halls, named as Dr. E. H. Sutherland Lecture Hall and Lombroso Lecture Hall. There is a well - maintained, good museum in the

Department, containing rare collections. The museum in the Department of Criminology and Forensic Science, K.Sc.C. D has a collection of wax models, photographs of pioneers in the field of Criminology and Forensic Science, charts on motor vehicle and train accidents, photographs of finger prints and footprints and toxicological specimens, among many others.



Museum of the Department of Criminology and Forensic Science, K.Sc.C.D. Right: The building housing the Department of Criminology and Forensic Science, Karnatak Science College, Dharwad.



Left: Teaching and non-teaching staff members of the Department of Criminology and Forensic Science, Karnatak Science College, Dharwad. In the picture on the right: Dr. J. L. Kalyan, HOD of the Department of Criminology and Forensic Science, along with office and technical staff members. Seated L-R: Shri A.S.Kallolikar (Artist), Dr. J. L. Kalyan (HOD), Sri. Ramesh Nirwani (Sr. Lab Assistant).

The Department of Criminology and Forensic Science contains two well equipped laboratories and a separate library. The Departmental library has a collection of nearly one thousand books and journals. The Department imparts training to students of Criminology and Forensic Science on various aspects of the subject, like for example, Police Science, Criminology, Penology, Victimology, Forensic Science, Criminal Law and

Forensic medicine. The Department arranges exhibitions during Traffic and Crime Prevention week, with the co-operation of the local police. The Study Circle in the Department of Criminology and Forensic Science is named after the well - known Criminologist Dr. Walter Reckless. The Walter Reckless Study Circle arranges Seminars, Symposium and Debates in order to train the students in academic pursuits. At present Dr. J. L. Kalyan, Associate Professor of Criminology and Forensic Science is the Head of the Department. He is supported by six teaching assistants (TAs) and a few non-teaching, including technical staff members. All the teaching staff members are quite competent to teach Criminology and Forensic Science in both Kannada and English medium (medium of instruction). Among the teaching staff members, two members are Ph.D. degree holders and Dr. J. L. Kalyan is a recognized Ph.D. guide of the Karnatak University, Dharwad. The teachers belonging to the Department of Criminology and Forensic Science are actively engaged in both academic teaching and research activities. Modern teaching methods are practised in the Department; the teaching methods include suitable educational teaching aids like LCD projector and OHP projector, in addition to sophisticated instruments. The Department of Criminology and Forensic Science celebrated its Golden Jubilee in the year 2016. The success rate of students of Criminology and Forensic Science, from both B.A and B.Sc. Courses is around 95%. A gold medal has been instituted in the name of the founder H.O.D Prof. K. P. Venkatesh Murthy. Each year, one student is awarded this Gold medal.



Dr. J. L. Kalyan, Professor and Ex-HOD, Department of Criminology and Forensic Science and Former Principal of Karnatak Science College, Dharwad retired from service on 31-7-2023.

Non-teaching Staff: Shri.S.B.Radder (Sr. Lab.Assistant) & Shri A.S.Kallolikar (Artist),

For further details, contact:

Dr. (Smt.) Manjali S Salunke, Principal
Incharge H.O.D and Professor of Chemistry,
Department of Criminology and Forensic Science,
Karnatak Science College, Dharwad.

DEPARTMENT OF GEOGRAPHY

The Department of Geography started functioning in Karnatak Science College in the year 1937. It offers Geography as an optional subject for students pursuing B.Sc. and B.A. degree courses. The Department of Geography, KSCD has an independent building with three lecture Halls, each with a seating capacity for 120 students. It also contains three lecture halls and one museum.

The Department of Geography, KSCD has a study circle, through which tours, seminars and group discussions for students are arranged. Meteorologic predictor information is available to the general public, as the Department of Geography has six meteorological equipment.



Professor Dr. (Smt.) V. B. Saviramath, Associate Professor Dr. G. N. Kummur, (HOD), Professors Dr. S. S. Motebennur and Dr. L.T. Nayak, along with teaching assistants and non-teaching staff members of the Department of Geography, Karnatak Science College, Dharwad.

The faculty members of the Department of Geography, KSCD are recognized as Ph.D. Guides by the Karnatak University, Dharwad. Many students are pursuing their Ph.D. degree under the faculty members of the Department of Geography, who have also completed the implementation of research projects funded by the University Grants Commission, Government of India.

List of Faculty members in the Department of Geography, Karnatak Science College, Dharwad:

1. Dr. L.T. Nayak, Professor.
2. Dr. S. S. Motebennur, Professor.
3. Dr. (Smt.) V. B. Saviramath, Professor.
4. Dr. G. N. Kummur, Associate Professor and H.O.D.



For details, Contact:

Dr. G. N. Kummur, Associate Professor and H.O.D of the
Department of Geography, Karnatak Science College, Dharwad.
E Mail: gnkummur27@yahoo.com
Mobile: +91 8861502460 Landline: 0836 2957532

DEPARTMENT OF GEOLOGY

In the present scenario, Earth Science has got tremendous scope, and therefore, education in this field has gained momentum. There are plenty of opportunities for well - trained Geologists in academic, organizational, institutional and departmental fields. Geology deals with the science of Earth, that includes all aspects of the study of Earth, but it is more focused on its internal aspects. Geology throws light on Earth dynamics, its history, geodesy, geometry, geochemistry, geophysics, minerology, petrology and palaeontology. It includes a study of economic Geology, structural Geology and other applied aspects. The Department of Geology at Karnatak Science College, Dharwad is equipped has good lecture halls, laboratories, library, research laboratory and a separate Computer lab for Staff and Students. The Department has well - qualified faculty members and skilled laboratory staff.



Faculty members and non-teaching staff members of the Department of Geology, KSCD. Seated (L-R): Professors Dr. R.Y. Budihal (H.O.D), Dr. S. Manjunatha, Dr. J. T. Gudagur, Rtd. Principal Dr. S.C. Chougla and Office Staff, Shri. Nerlekar (O.S)

There is a marvelous museum in the Department of Geology, which has excellent exhibits comprising minerals, rocks and fossil specimens which have been systematically arranged. The museum has several maps, models, charts, aerial photographs and imageries, among many other educational materials. A few specimen available in the Geology museum are unique and rare. Thus, the museum in the Department of Geology, Karnatak Science College, Dharwad is considered as one among the best Geology museums in South India.

The Department of Geology arranges seminars, workshops, exhibitions, invited lectures, field mapping and other competitions for students. The staff members engage themselves in societal activities, especially the popularization of Geo-sciences, in addition to their teaching and research work. The faculty members of the department extend their services by giving free technical advice regarding borewell locations, rain water harvesting, ground water recharge structures, the estimation of ore bodies, mineral deposits and rocks. Two of the faculty members of the department are recognized Ph. D. guides, namely, Dr. J. T. Gudagur and Dr. S. Manjunatha.

The Department of Geology was established as a separate department on August 1st, 1961. Karnatak University started the post graduation course in Geology in 1956. When Dr. M. S. Sadashivaiah assumed charge as Professor and Head of Department of Geology in the University, he realized the importance of introducing Geology for undergraduate level. The introduction of Geology as a principal subject was success. The strength of students increased year after year and the need for a separate undergraduate department of Geology was felt. As a result the department of Geology was separated from the department of Geography with Prof. C. Paramashivaiah as head of the department. This was mainly due to the efforts of Principal G. S. Paramashivaiah who took keen interest and Dr.

M. S. Sadashivaiah who transferred material and equipment consisting of a number of polarizing Microscope including accessories, sets of rocks, minerals, fossils and other equipment from the P.G. department to the college. Earlier the department was housed in the first floor of the new staff building. The subject was then taught as both as Major (core) and minor (elective) to the B.Sc. students. As the accommodation provided for the department has become inadequate and there was a need for spacious building, in 1984 the department was shifted to new premises, the left wing on the first floor of science block. In 1994, the three principle subjects of equal importance, spacious class rooms, and two labs were introduced by the University. Students are admitted to B. Sc (Optional) based on merit cum roster system.

The students admitted belong to different social and economical background as well as rural and urban background. The students admitted to B. Sc (Geology optional) study in English medium. In recent years students have got attracted towards the subject i.e. strength has increased three fold and rate of absorption to jobs has improved a lot.



Left: Instructions being given to students regarding Geological samples by Professor, Dr. R. Y. Budihal. Right: Experiment on Geological samples using a polarizing microscope, explained to students by Professor Dr. S. Manjunatha and Ex-Principal Dr. S.C. Chougala.



For further details, contact:

Dr. R. Y. Budihal

**Professor & Head, Department of Geology, Karnatak Science
College, Dharwad & Nodal Officer, UUCMS, KSCD**

E Mail: rybudihal@gmail.com

Mobile: +91 8762334251

UG & PG DEPARTMENT OF BOTANY

The department of Botany is in the midst lush green vegetation providing a congenial environment for enhancing students studies. Earlier the department was housed in Biology building since 1937 and subsequently moved to its independent building in 1951. Biology was taught in main building (Arts Building).

The Botany subject was introduced at the subsidiary level of the graduate course in science. Prof. D.V. Shinde was the first to teach the B.Sc. Botany subject. Dr. L.K. Gunjekar joined him in 1937. Efforts of Prof. P.W. Gideon to introduce botany as a principle subject in 1938 was turned down by the Government of Bombay as the Second World War had started. Efforts were resumed in 1946 after the second world war and the Government gave the sanction to teach Botany as the principle subject in 1946, headed by Prof.(Mrs.) Elva Gonzalves in the independent building from 1951 to 1954. She was also the pioneer of phycology in this region. The credit for this tireless effort must go to wrangler Dr. D.C. Pavate the then Director of Public Instruction.



Photograph of the Botany Department building (Left); Front View; (Right:) Students in the Botany Laboratory, Karnatak Science College, Dharwad. Professors Dr. Smt. Doris. Singh and Dr. K. P. Kolkar are seen in this photograph.

In 2000-01 looking into the needs of the students an applied subject Genetics was introduced. The course is run by the Coordinator who is a teaching faculty of Botany department.

The department has four laboratories, two labs for B.Sc, one lab for Genetics and the other lab for PUC course (which is shifted in New PUC block). There is only one classroom which can accommodate 60 students hence classes are also taken in Biology hall (Z1). There is one HOD room and five staff rooms and one preparation room. The most attractive part of the department is the garden which has about 2000 different plants both potted and grounded. The garden has almost all the plants for day to day practical use also a small medicinal garden has been developed.

The department has a herbarium housing more than 10000 specimens including algae; in the herbarium, a type specimen *Isoetes dixtii Shinde* is an extinct species (Ex. 11352, Panchghani, Maharashtra) and other is *Fischer Herbarium* specimens from Holland. The department has three permanent teaching staff; Dr. (Mrs.) Doris M Singh, Dr. K. Kotresh and Dr. K.P. Kolkar. All are well qualified and experts in their field like Microbiology, Taxonomy and Environmental Biology, Developmental Biology etc. Teachers are carrying out research work. All of them are Research guides. So far 16 students have been awarded Ph.D.; 18 students are perusing their Ph.D. and

four major and four minor projects have been completed. There are ten temporary teachers who are actively involved in teaching and research.



Dr. (Smt.) Doris M. Singh, Dr. K. Kotresha (Head of the Department) and Dr. K. P. Kolkar (Coordinator, Genetics Division), Professors in the Department of Botany, Karnatak Science College, Dharwad

The office is small having a computer operator (Smt. Surekha K.) and three peons (Shri M.B. Bachagundi, Shri Shrikant, Shri Praveen Madar) who look after all the labs both Genetics and Botany. Each day four labs run simultaneously a field collector (Mr. Angadi) and a gardener (Mr. Ramesh Chakrasali) are also part of the department. The department also has a lab assistant (Shri Kambi). Dr. K. Kotresha takes up consultant activities of identifying the plants, students of Pharmacology Ayurveda regularly visit the department for identification for which a minimal fees of Rs. 100/- is charged. Teachers of various schools and colleges come to take plants from the Botany department for which they are charged Rs. 10/- per unit. At present the total strength of the students is 293 at the U.G. level. The department has best practices; all teachers are mentors who conduct activities in developing the skill of the students while giving knowledge about the subject.

The Botany department also maintains a museum which has 7 sections comprising of Algae, Pteridophyte, Gymnosperms, Ecological instruments, economic botany, dried, fruits and fossil forms. Over all well being of the community is being taken care by imparting good education and conducting various programs like extension programs, development of nursery, production of organic manure, carbon sequestering, plant diversity documentation and keeping our environment clean.

The list of faculty members in the Department of Botany is as follows:

1. Dr. (Smt.) Doris M. Singh, Professor
2. Dr. K. Kotresha, Professor and HOD
3. Dr. Kiran P. Kolkar, Professor



For further details, contact:

Dr. K Kotresha

Professor and Head of the Department of Botany, Karnatak
Science College, Dharwad.

E Mail: kotresh_sk@yahoo.com ; kotresh65sk@gmail.com

Phone:0836-2744334

Mobile: 9449897532, 8088646309

DEPARTMENT OF GENETICS

Genetics Division in the Department of Botany, KSCD

Genetics, a discipline of biology, is the science of heredity. This includes the study of genes, and the inheritance of variation and traits of living organisms. In the laboratory, genetics proceeds by mating carefully selected organisms, and analyzing their offspring. More informally, genetics is the study of how parents pass some of their characteristics to their children. It is an important part of biology, and gives the basic rules on which evolution acts. The fact that living things inherit

traits from their parents has been known since prehistoric times, and used to improve crop plants and animals through selective breeding. However, the modern science of genetics seeks to understand the process of inheritance. This began with the work of Gregor Mendel in the mid-nineteenth century. Although he did not know the physical basis for heredity, Mendel observed that organisms inherit traits via discrete units of inheritance, which are now called genes.

The twentieth century began with the rediscovery of Mendel's rules of inheritance and ended with the complete sequence of the human genome, one of the most monumental scientific accomplishments of all time. What lies in the future? What will the twenty-first century, the century of genomics, bring? Will geneticists a hundred years from now speak of a complete cure for cancer, heart disease, and mental illness? Will we have a cure for autoimmune diseases such as diabetes and arthritis? Will aging be slowed or even prevented? Will we have a complete understanding of the process of development and a concurrent elimination of birth defects and developmental problems? Will genetics put an end to world hunger? How will we live, and what will be the quality of our lives? The students who now are taking genetics will learn the answers to these questions as time progresses. Some students will contribute to the answers. The science of genetics includes the rules of inheritance in cells, individuals, and populations and the molecular mechanisms by which genes control the growth, development, and appearance of an organism. No area of biology can truly be appreciated or understood without an understanding of genetics because genes not only control cellular processes, they also determine the course of evolution. Genetic concepts provide the framework for the study of modern biology. An understanding of genetics is however crucial to advancements in medicine, agriculture, and many industries. Genetic controversies such as the pros and cons of the Human Genome Project, the potential ethical and medical risks of recombinant DNA and cloning of mammals, and human behavioral genetic issues such as the degree of inheritance of

homosexuality, alcoholism, and intelligence. Genetics can help us to understand why people look the way they do and why some people are more prone to certain diseases than others. Genetics can help health-care professionals to identify certain conditions in babies before they are born using techniques such as prenatal testing. Genetics helps explain a lot of things, like what makes you unique, why you look like other members of your family, and why some diseases run in your family. Taking time to learn about genetics can help you understand your own health and make healthy choices. The subject comprises different aspects of living activities and their precise control through DNA, DNA mutation causing various diseases like cancer, congenital diseases, neuropathy and biochemical disorders like phenyl Ketonuria. The technical expertise of the students in the field of Genetics and Molecular Biology make the student employable.

In Karnatak Science College, GENETICS is taught as one of the optional subjects with Chemistry as the compulsory subject, and Botany or Zoology as the other optional subjects under three subjects of equal importance scheme. For academic and administrative purpose, genetics course is housed in Department of Botany. There is a dedicated laboratory for genetics with the state-of-the-art facilities to perform experiments in classical as well as molecular genetics. Separate group of teachers with expertise in the subject are appointed to teach the subject. Teachers are well trained in theoretical as well as practical aspects of genetics and are always available to the students in both online and offline mode. Students can consult the faculty members at any given time to clear their doubts. Alumni of the department with genetics optional subject are well placed in various National and International research organizations, working in various capacities in Government and non-Governmental organizations, indicating the contribution of the division in creating responsible citizens for the future. In order to nourish the academic zeal of the students, Karnatak University has started the Post-Graduation Department of

Applied Genetics in the main campus, where the student can pursue his/her Post-Graduation and the Doctorate degree in genetics.



For further details, contact:

Professor Dr. K. P. Kolkar, Coordinator of Genetics Division,
Department of Botany, Karnatak Science College, Dharwad

E Mail: kpkolkar_kcd@gmail.com

Mobile: +91 9986096876

DEPARTMENT OF ZOOLOGY

The Department of Zoology was established in the year 1934. This department has the prestige of starting PG course in Zoology in 1959, which was later on shifted to Karnatak University, Dharwad in 1967.

The department is housed in a beautiful red colored building and covers largest area on the campus. It has spacious building with a Library, 3 Lecture halls, 4 Student Laboratories, 3 well equipped research laboratories and one of the largest and best Museums in the entire North Karnataka, which is one of the best Zoology museums in India. The museum is well furnished with a collection of 2500 species of specimens, which are well maintained and appreciated by the public, visitors and students from the different places. The Department of Zoology has well qualified faculty members; all three of them are having the Ph.D degree. One faculty member is recognized as a Research Guide of Karnatak University. Since its inception, 26 students have completed Ph.D and the department has received research grants from funding agencies like DST, UGC and VGST. Papers are

published from the department in National and International journals. All the teaching staff are student friendly and the department offers courses from B.Sc. to Ph.D.



Building housing the Department of Zoology, KSCD

The Department of Zoology organizes seminars, workshops, training programmes, extension programmes and study tours. B.Sc students are encouraged to take up small research projects and many of them have presented papers in National level conferences and seminars .Student knowledge enrichment programmes are organized by Dept. study circle i.e, Dr.Salim Ali Zoology Study circle. Department has some innovative practices like Vermicomposting, Apiculture, Rain Water harvesting, Construction of fish aquaria etc. The Department also has two sister departments, viz., Department of Industrial Fish and Fisheries, established in the year 1995. This is a Vocational course which expertise the students in preparing fish aquaria, rearing of ornamental fish, fish farming, fish preservation and other activities are organized like study tours, field trips and hands on training from the field.

Another department is Microbiology, which was established in the year 1997. This Dept. has necessary infrastructure, well equipped laboratory, with various equipment like Autoclave, Colorimeter, BOD incubator, Laminar airflow, Electrophoresis,

Bacterial incubator, Hot air oven, Rotatory shaker incubator, Centrifuge, Defreezer etc. catering to the needs of the students. This course teaches microbiological techniques, medical microbiology, food processing and preservation technologies. This Department has the pride of producing many eminent personalities in the field of Life sciences.



Dr.(Smt.) R.D.Sanakal (HOD, Department of Zoology), Dr. S. S. Mangalawade and Dr. Harsha D. Neelgund, Assistant Professors, Department of Zoology, Karnatak Science College, Dharwad.

Non Teaching Staff: Smt. Sumitra S Mensinkai (AOS)

For further details, contact:

Dr.(Smt.) R. D. Sanakal, Assistant Professor & HOD,
Department of Zoology, Karnatak Science College, Dharwad.

E Mail: sanakalraju@gmail.com

Landline: +91 836 2215410; +91 836 2215400

DEPARTMENT OF INDUSTRIAL FISH AND FISHERIES

Industrial Fish and Fisheries course was introduced as a vocational course by UGC at Karnatak University's Karnatak Science College, Dharwad in the year 1994. It was started in the Department of Zoology, Karnatak Science College, Dharwad as an undergraduate course. From the last 25 years, this course is being conducted with optional subject combinations involving

Chemistry as the main subject and two allied subjects, namely, Zoology and Botany (known as CZIF and CBIF, respectively). At present, this is a six-semester course (3 years) and minimum eligibility is an intermediate (10+2) in science discipline.

The syllabus for Industrial Fish and Fisheries at UG level using the Choice Based Credit system (CBCS) has been framed in compliance with the model syllabus given by the UGC. The main objective of this syllabus is to give the students a holistic understanding of the subject, giving substantial weightage to both the core content and techniques used in Industrial Fish and Fisheries. Keeping in mind and in tune with the changing nature of the subject, adequate emphasis has been given on new techniques and understanding of the subject. The syllabus has also been framed in such a way that the basic skills of the subject are taught to the students, and the scope of securing a job after graduation will increase.

Industrial Fish and Fisheries is a field that is associated with the Science and Technology utilized in the industrial fishing business. Subjects studied under this degree are the biology of fishes and shellfishes; marine and inland fisheries aquaculture; cold water fisheries, ornamental fisheries, and their culture and management. Students gain information on fisheries marketing, economics and management; harvest and post-harvest technology of fish; fish by-products; fishery microbiology and seafood quality control; fish and shellfish processing technology and freshwater aquaculture and mariculture.

This course also encourages the student to be an entrepreneur in the field of fish culture, aquarium industries, aquaculture, fish food processing industries and research fields related to fisheries. The mission of this course is to educate the students about the conservation and sustainability of fishery resources and aquatic ecosystems by advancing fisheries and aquatic science and promoting the development of fisheries professionals. The training imparted during the UG course of study on “Industrial Fish and Fisheries (IF)” helps the students to understand the diverse mission, which includes the management and stewardship of the nation's freshwater and marine resources,

their habitats, sustainable seafood and the recovery of protected fish species. Study tours are also conducted regularly as a part of the curriculum, so as to provide hands-on training to the students.

The alumni of IF division of the Zoology department are now serving in the various fields related to fisheries, such as, research, harvest and post-harvest technology related industries; seafood quality control industries; freshwater aquaculture, mariculture industry and hatchery units.



For further details, contact:

Dr. Harsha D Neelgund,
Assistant Professor & Co-ordinator
Department of Industrial Fish and Fisheries,
Karnatak Science College, Dharwad
E Mail: neelgund2021@gmail.com
Mobile number: +91 99649779021

DEPARTMENT OF MICROBIOLOGY

---- MICROBIOLOGY: STUDYING THE INVISIBLES ----

History: The Department of Microbiology was established in the year 1997 exclusively to offer “Microbiology” as one of the optional subjects for the B.Sc. Degree offered under the

Biological Sciences Stream. It is the sister Department of Zoology, Karnatak Science College, Dharwad.

Vision: Upgradation of existing teaching and research activities in order to keep pace with the global scientific progress in the field of Microbiology, and to meet the welfare of society.

Mission: The development of academic processes to enhance scientific research through strategic planning and a clear vision for Science and Technology at the National level, to introduce a methodology developed to meet the different needs of society, and to serve the scientific community by implementing various research projects.

Objectives: Through the three-year undergraduate (B.Sc.) course with Microbiology as one of the optional subjects, the Department is committed to provide transformative education through the following elements:

- The Department is dedicated in providing the quality education, through both lectures and practical sessions, which are necessary to meet the needs of the growing field of Microbiology.
- Fundamental research training for undergraduate, graduate and postdoctoral students who will become future leaders in science, medicine, agriculture, and industry.
- The syllabus (CBCS and NEP) covers a wide portfolio of Microbiology courses at the undergraduate level. It is a Centre of expertise for numerous aspects of fundamentals of Microbiology and its applications.
- Research that advances the frontiers of knowledge in the field of microbiology.

Syllabus: The syllabus broadly covers different areas, such as Microbiology and Microbiological Techniques, Microbial Physiology and Genetics, Molecular Biology and Genetic Engineering, Environmental and Agricultural Microbiology, Food and Industrial Microbiology, Microbial Biotechnology and Bioinformatics, Microbial Quality Control in Pharma, Food and Industries, Microbiological analysis of air and water Immunology and Medical Microbiology, Advances in Microbiology and Biostatistics. The college has central library

facility as well as Departmental library dedicated for Microbiology students Library is currently housing more than 200 books including reference books and laboratory manuals for use by faculty and students. The Department has experienced teaching staff, who have cleared SET/NET and hold Doctoral degree in Microbiology. The Department of Microbiology is academically managed by co-ordinator and HOD of Faculties of Zoology Department.

Laboratory Facilities:The Department is well equipped in terms of infrastructure and receives a deluge of students applying for its undergraduate courses. Microbiology laboratory has a separate air conditioned room for uniform air flow and Laminar Air Flow unit for maintaining sterility during microbial cultivation and handling of pathogens, Bacterial incubator, BOD incubator, Shaker incubator, Digital Colony Counter, -18°C Deep Freezers, Hot Air Oven, Monocular, Binocular and Stereo Microscopes, Digital Autoclave, Digital and manual water bath, Digital pH meter, Digital Weighing balance, Anaerobic jar, Electrophoresis Units, Thumb Shaker, Digital Centrifuges, camera lucida, many Instant dehydrated culture medias, teaching kits, teaching aids such as LCD projector, slides projectors and other facilities related to Microbiology and Molecular biology of National standards.

Research activities:The Department is involved in research on various topics related to biodegradation and bioremediation, antimicrobial activity, endophytes, probiotics, actinomycetes etc. Students and faculty are routinely engaged in presenting their research work in the form of research papers, oral presentations and posters on national and international platforms. Till date, the department had successfully completed 4 VGST SPiCE students projects sponsored by the Department of Information Technology, Biotechnology and Science and Technology, Government of Karnataka.

Outreach Activities: Along with academics Department of conducted many hands-on workshops and seminars related QC/QA Microbiology and Molecular biology.

Participation in Science Model exhibitions, Scientific assay writing and Quiz competitions. There will be study tour for final year students to QA/QC Microbiology related to industries and National and International Research Institutes.

Placement and Job opportunities: Many of the outgoing students have been placed in wide range of jobs such as QA/QC Microbiologist in Pharmaceutical Industry, Food Processing and Beverages industries, pathologist in Hospitals, Microbiology analyst in Packaged food and drinking water industries, NABL Testing laboratories, Diagnostics labs, Many Govt sectors such as FSSAI, BIS, KSPCB, CPCB, Rural Drinking Water and Sanitation Department etc. After this course one can become entrepreneurs in many fields like – Mushroom Cultivation, Spirulina cultivation as SCP, Production of Biofertilizer, Biogas Production, Biopesticides, Food Processing Units and Probiotic industries.



For further details, contact:

Dr. S. S. Mangalawade

Assistant Professor & Co-ordinator,

Department of Microbiology,

Karnatak Science College, Dharwad

E Mail: mangalawadess@gmail.com

Mobile number: +91 9741621010

Department of Computer Science

The Department of Computer Science and BCA, Karnatak Science College, Dharwad, was established in the year 1998 with BCA, and B.Sc (CS) was started in the year 2001, to

provide quality education at very low cost to the student. Due to the implementation of NEP-2020, KUD has closed down the B.Sc (CS) course with effect from 2021-22.



The building housing the Department of Computer Science, KSCD

PERMANENT TEACHING STAFF:

1. Dr. Nagaraj S., Assistant Professor
2. Smt. Lalitha R. Naik, Assistant Professor and HOD
3. Smt. Ambika Ramchandra, Assistant Professor
4. Shri. Rajshekhar.V. Baraker, Assistant Professor
5. Smt. Kalpana C. Dalwai, Assistant Professor

NON-TEACHING STAFF:

1. Smt. Surekha Kankanwadi, Computer Operator
2. Smt. Sakuntala Kansavi, Peon
3. Shri Shekappa Karalingannavar, Peon

The Department has registered speedy progress. It possesses adequate infrastructure, computing facilities, well-equipped laboratories to meet the curriculum requirements. In a very short span of its existence, the Department has earned the reputation as one of the best learning centers in Karnataka. Functioning of all the academic activities are taking place in a new magnificent building of its own. The Department gives thrust and encourages students to demonstrate creative talents based on realistic approaches. An all-round development of student is aimed at with emphasis on the computer applications.

Observing the emergence of computer science as the new discipline and looking at the explosive growth in the field of information science and technology, the Department introduced a new course leading to B.Sc.(Computer Science) in the year 2001-02. This course was designed and developed to meet the need for human resource in the area of information technology and informatics. Due to the implementation of NEP-2020, KUD has closed down the B.Sc (CS) course with effect from 2021-22, as it was felt that taking Computer Science as a MAJOR subject and either Electronics or Mathematics as a MINOR subject becomes equivalent to the B.Sc. (CS) course. This course provides an opportunity for advanced studies. All round development of students is aimed at with emphasis on the computer applications, projects, practical training and seminars. Students are given enough scope to develop innovative ideas and creative thinking. The department is currently headed by Smt. Lalitha R. Naik.

BACHELOR OF COMPUTER APPLICATION (B.C.A):

I. OPPORTUNITIES:

B.C.A. graduates can join professional courses like M.C.A & M.Sc.(C.S.) or any other institution dealing with M.B.A. They will have ample of opportunities in joining various organizations. They will be very well trained to take-up independent business. The R and D establishments of the Government as well as Private Organizations require these B.C.A. Graduates. They can join software development firms or any Institute dealing with Information Technology. The course prepares students who desire to join any business organization, industry and other prestigious Institutes as Hardware/Software Personnel. In last couple of years, placement record of the institution has been excellent.



Dr. Nagaraj S., Smt. Lalitha R. Naik (HOD), Smt. Ambika Ramchandra, Shri. Rajshekhar.V. Baraker, Smt. Kalpana C. Dalwai, Assistant Professors, Department of Computer Science, Karnatak Science College, Dharwad.

II. STRUCTURE OF THE BCA COURSE:

1. The duration of B.C.A. Course is three years (6 Semesters)
2. Each Semester will consist of 16 weeks and minimum of 90 working days.
3. Choice Based Credit System (CBCS) is introducing for the academic year 2020-21 onwards.

III. ELIGIBILITY FOR ADMISSION:

Candidate securing minimum of 35% (for all categories) of PUC / 10+2 with Science or Commerce with Mathematics / Business Mathematics / Accountancy/ Computer Science or 3 years *Diploma with Computer Science / Information Science or 2 years *JOC / *ITI with Computer Science shall be eligible.

IV. ADMISSION PROCEDURE:

1. Admission is made based on merit cum roster as per Government of Karnataka regulations.
2. 60 Candidates will be admitted to this course for every academic year, out of which 20 candidates will be admitted on self-financing basis.

PLACEMENT ACTIVITIES:

Placement and Training Center (PAT) which is headed by the coordinator functions in the Department. Placement officer works as secretary and other faculties members of PAT. PAT Centre looks after the industrial training needs of the students and their placements for jobs on graduation.

Four major areas on which the training is planned are

1. Communication Skills
2. Group Discussions
3. Analytical Skills
4. Personality Development

Main responsibility of the PAT is to motivate and prepare students for campus interviews. This center also arranges programmers for career guidance, mock interviews, mock tests, group discussions to assist the final year students in preparing for campus recruitment. Department organizes campus recruitment fairs. Every year many top rank organizations recruit final year students of our department. The placement record of the institution is excellent.

VISION : "TRANSFERRING EVERY STUDENT'S DREAM IN TO REALITY"

MISSION : "TO EMPOWER STUDENTS TO MEET INDUSTRY CHALLENGES"

For further details, contact:



Lt. Rajshekhar Baraker
HOD/Co-ordinator and Assistant Professor,
Department of Computer Science,
Karnatak Science College, Dharwad.
Email: rajshekhar.baraker@gmail.com
Mobile number: +91 9590061642

UG & PG Department of Mathematics

The Department of Mathematics in KCD was started in the year 1918. Since its inception, the Department has produced many eminent mathematicians and personalities who have occupied high positions, both in India and abroad. The architect of KUD, Late Wrangler Dr. D. C. Pavate, Ex-VC of KUD and later the Governor of Punjab was a student of this Department. The Department of Mathematics has developed due to dedicated services of its eminent teachers. There is a study circle in the Department, named Ramanujan Study Circle. This provides a platform for students to show their innovative talents in mathematics. The Department is conducting a Mathematics Olympiad every year, in the month of November. The faculty members of the Department are engaged in research work, in addition to their teaching duties. Dr. Keerthi G. Mirajkar has successfully guided students for the Ph.D degree, as a recognized guide of the KUD.



Dr. Jagadeesh B. Toranagatti (Associate Professor) , Dr. (Smt.) Keerthi G. Mirajkar (Associate Professor) and Shri. B. Parvatalu (HOD & Assistant Professor) in the Department of Mathematics, KSCD.

The faculty members of the Department of Mathematics are as follows.

1. Dr. Jagdish B. Toranagatti, Associate Professor.
2. Dr. (Smt.) Keerthi G. Mirajkar, Associate Professor.
3. Dr. B. Parvatalu, Assistant Professor & HOD.

M.Sc. (Mathematics) Course at Karnatak Science College, Dharwad

The program of Masters (M.Sc. Or PG) in Mathematics has started in the year 2011. In the span of 10 years, the Post-Graduate (PG) Department of Mathematics has evolved and grown beyond its prospects. The main aim of the course is to produce post-graduate students with strong mathematics foundation to join research, industries as well as various jobs. The department has been trying to groom a large pool of best trained students as scientific manpower for quality doctoral programs and well educated individuals.

In the beginning, the students had shared class rooms and laboratory (computer) with undergraduate (B.Sc.) students. Later, the PG department has got its own full fledged computer lab with 35 systems and separate class rooms in the PG building of Karnatak Science College, Dharwad. Initially, the faculties of Mathematics from Karnatak University, Dharwad were engaging classes as well as monitoring the laboratory work. From the last two years, the University has appointed Teaching Assistants (TA), who took responsibilities in the smooth conduct of departmental academic activities. The University has appointed young, dedicated and highly qualified faculties. At present, three TAs are working in the department, who have completed their doctoral research from Karnatak University, Dharwad in various fields of Mathematics. These TAs have produced more than 35 research papers in the reputed international journals. The faculty's teaching is oriented in preparing the students for research activities and NET/SLET examinations in mathematics. Students of this department have consistently performed well in all examinations and have successfully faced various academic challenges.

Structure of the M.Sc (Mathematics) Course:

The two years masters program in Mathematics has been designed to mold the students in taking up their career in research or teaching. The first two semesters focus on Algebra,

Real Analysis, Topology, Discrete Mathematics, Operations Research, Linear Algebra, Complex Analysis, Differential Equations, and Functions of Several Variables. In the next two semesters, the subjects like Differential Equations, Complex Analysis and Topology are continued to higher levels along with the introduction of new subjects such as Measure Theory, Functional Analysis, Differential Geometry, Numerical Methods, Fuzzy Topology, Integral Transforms and Integral Equations. Higher semesters have advanced core courses emphasizing both theory and applications. In particular, in the final semester, the students can choose subjects based on their interest. The subjects such as Graph Theory, Nevanlinna Theory, Dimension Theory, Relativity, Ring Theory, Galois Theory, Number Theory, Differentiable Manifolds, Geometric Function Theory, Group Theory and Commutative Algebra have been introduced as elective papers. In addition, the students execute C-programs in connect to various numerical methods at computer laboratory for three semesters. In the final year, the students should carry out a project work under the guidance of faculties, which helps them to understand the subject in view of applications and also to take up the research in future.

Admission procedure for M.Sc (Mathematics) course:

The entire admission procedure is carried out by the Department of Mathematics, Karnatak University, Dharwad as per the reservation policy of Government of Karnataka.

In order to get admission into the department, the students should submit an application with required documents to the Department of Mathematics, Karnatak University, Dharwad during the period of that academic year mentioned by the University.

Later, the seat will be allotted based on the merit list, which was prepared by considering the performance of the student in both undergraduate examinations as well as the entrance test conducted by the University.

In total, 35 candidates are admitted to this course in every academic year under the self-financing category.

Extra curricular Activities:Through sports students learn to respect authority and rules. Sports increase mental alertness, reduces stress and anxiety in students. It creates discipline in a person. Every year, the department organizes indoor and outdoor games. Students are free to participate in any event of their interest. The outdoor games, such as, Cricket, Volleyball, Football, Track and Field Sports are organized in the college ground, while to organize indoor games, such as, Chess, Badminton, Carrom, etc., the college has got separate halls.

For the Academic year 2021-2022, the department has planned to organize workshop and webinars in association with IQAC Karnatak Science College, Dharwad. Students find it a privilege to be here because of the academic environment and the facilities provided by the P. G. Department of Mathematics, Karnatak Science College, Dharwad.

For further details, contact:



Dr. B. Parvathalu

HOD/ PG Co-ordinator & Assistant Professor
UG & PG Department of Mathematics,
Karnatak Science College, Dharwad.
Mobile: +91 9880865914

E Mail: headmathkcd@gmail.com; bparvathalu@gmail.com

DEPARTMENT OF STATISTICS

The Department of Statistics was established in 1961, with a modest faculty. Over the last 59 years, the department has grown into a major center for teaching and learning Statistics, both Science and Social Science courses. The optional subjects

taught are “Mathematical Statistics” for the B.Sc. Course, “Applied Statistics”, “Elements of Mathematics and Statistics” for the B.A. course and “Business Statistics” for the B.Com. course. For B.Sc. Students, they can opt for Statistics as one of the optional subjects along with Physics and Mathematics (PMS combination) or with Mathematics and Computer Science (SMCs combination) or Chemistry and Mathematics (CsMS combination). There are four highly qualified permanent teaching staff members in the Department of Statistics, of whom three have Ph.D. degree, and there are six temporary lecturers. They are as follows:

1. Shri. A. S. Ainapur, Associate Professor
2. Dr. (Smt.) K. M. Astagimath, Associate Professor
3. Dr. M. N. Megeri, Professor
4. Dr. S. R. Gani, Professor and HOD



L - R: Associate Professors Shri. A. S. Ainapur, Dr. (Smt.) K. M. Astagimath, Professors Dr. S. R. Gani and Dr. M. N. Megeri, the faculty members of the Department of Statistics, KSCD.

Apart from teaching, the faculty members of the Department are actively engaged in research activities. They have published papers, are guiding Ph.D. students and carrying out Research Projects funded by the UGC and other funding agencies. At present, there are two research Guides, under whom four candidates already been awarded the Ph.D degree, and there are four regular students who are pursuing their Ph.D. degree. The alumni of the department are working in reputed Universities, Research Centers, IT and BT sectors and Government organizations in India and abroad. Late Girish Karnad, the well

known play-wright, essayist and the recipient of Jnanapeeth award is an alumnus of the Department of Statistics.

Facilities provided by the Department of Statistics:

1. Computer laboratory: The department has a computer laboratory, which contains seven computers and two printers. The staff members and students use these computers for their research work, and to work out the results of practical problems in Statistics. The UG (B.Sc.) students also use these computers for their practicals.

2. Practical Laboratory: The department of Statistics has two laboratories, each one of them accommodating about 20 to 30 students to work on practical exercises in statistics. The Department of Statistics also provides Scientific Calculators to the students, to enable them to perform their practical work.

3. Lecture Hall: The Department has one Lecture Hall on the first floor of the main building. This lecture hall can accommodate one hundred students.

4. Library facility: The Department of Statistics has recommended about two thousand standard books on Statistics to be purchased by the Dr. V. K. Gokak Central Library of the college. In addition to these books which suit the student's need while pursuing the B.Sc. course, some standard National and international journals in Statistics are also available in the Central Library. In addition, a departmental library started functioning in the Department of Statistics from the year 2007, for the welfare of students. Here, books which are donated by staff members of the department, including the retired teachers, are kept for reference by students and staff members. There are 150 books in the departmental library.

5. Study Circle and Seminars: Prof. C. Mahalanobis Statistics Study Circle is a forum which has the objective of providing an opportunity for students to interact with their teachers and experts in the field of Statistics. In this forum, the Department of Statistics invites academicians to deliver special lectures on various topics in subjects related to Statistics. The Prof. C.

Mahalanobis Statistics Study Circle is also involved in conducting Seminars for Students.



For details, contact:

Dr. S. R. Gani

Professor and HOD of Statistics,
Karnatak Science College, Dharwad.

E Mail: gani.sr.kcd@gmail.com

Mobile: +91 9448329576

DEPARTMENT OF SANSKRIT, PRAKRIT AND YOGA STUDIES, KACD

The Department of Sanskrit and Prakrit came into existence right from the inception of the college, in 1917. Prof. A. B. Gajendragadkar an eminent scholar was the first Professor of Sanskrit. A course of Yoga Studies was introduced in 1994 in Karnatak College and it was attached to the Department. Yoga Studies was taught for B.A. and B.Sc, as one of the optional subjects During this period, Dr.C.S. Naikar was the Head of the Department. Under the headship of Prof. M. N. Joshi for nearly twenty years, the department exercised a remarkable influence on students by conducting good functions like Sanskrit-Day, Vishwabharati (Poem reading of other languages), Kalidasa-Jayanti, Geeta-Jayanti, Study tour, Kaumudi Mahotsava (Moonlight Dinner) and Vayu Vihara every year Some of these events are continuing by the Department even today. After the retirement of Prof. L.V Panchamukhi in 2014,

Dr Rajani H. took charge as the Head of the Department. As an organizing secretary, she has successfully conducted seminars, workshops and exhibitions, which include UGC

Sponsored Two-day National Seminar on "Yoga Philosophy and Practice: Its Global Approach" held on 22 and 23 of August 2015, and One-day National Seminar on "Fine Arts in Sanskrit and Praakrit Literature" held on 20th December, 2017 in Collaboration with Karnataka Sanskrit University, Bengaluru.

OBJECTIVES:

- To provide a discussion forum through lively and friendly interaction between students and teachers.
- To encourage the students to understand and speak Samskrit in a simple way.
- To create awareness among students about the importance of Sanskrita language
- To enhance the memory power in the students through kantha-patha competition
- To reveal the importance of yoga
- To create the sense of research and promoting rational thinking among students.

The students and teachers take the best advantage of the College Library (Dr.V.K. Gokak Library), which has a good number of Sanskrit, Prakrit & Yoga books and journals. Apart from this, the department also has its own library. Sanskrit and Prakrit section has 315 books. The yoga section has 181 books.



For further details, contact: **Dr. Rajani H.**, HOD of Sanskrit, Prakrit and Yoga studies, KACD; Mobile: 9986511844; E Mail: kcdsansdwd@gmail.com

DEPARTMENT OF ANTHROPOLOGY

Anthropology is the holistic science of man. It traces the evolution of man right from the time he was born. Anthropology always endeavors to cover all the facets of human existence, including socio-cultural, biological, linguistic and historical

aspects, without being confined to space and time. Anthropologists seek answers to a wide variety of questions related to man. They are interested in discovering when, where and why humans appeared on earth?; how and why they have changed since then?; and how and why modern humans are not one and same in their physical features.

Anthropologists also study how and why societies in the past and in the present have varied customs and practices? Anthropologists specialized in Applied Anthropology apply Anthropological methods and information to seek solutions to practical problems of humans. Clyde Kluckon a great anthropologist, considered Anthropology as 'Mirror of Man'. The main aim of this discipline is to understand human nature, both at level of an individual and at cultural and global level. Anthropology in recent years is attracting more and more students because of the varied career opportunities it offers. To cite a few, the students opting for Anthropology have job prospects in Anthropological Survey of India, Museums,(at Centre, state and district levels), Indian Council of Medical Research(ICMR), ICSSR, Indira Gandhi Rashtriya Manav Sangrahalaya, Tribal Research Institute, Forestry Sector Development Projects, Directorate of Women and Child Development, IIFM, Institute of Languages, Institute of Archives, Department of Urban Planning, Ministry of Culture, Ministry of Tribal Affairs, Ministry of Minority Affairs, NIN, NGOs, Population Research Center, National/Regional Medical Research Centers, UNESCO and UNICEF projects, UPSC, etc. as Scientists, Project Officers, Research fellows, Curators and Technical Development Officers along with teaching opportunities available at Central and State universities all over the country.

The subject of Anthropology is taught for both, the Arts and Science Courses. The Department of Anthropology was set up as a branch of Sociology at Karnatak Arts College in 1960. It became a separate department in 1971. Anthropology was taught as major and minor subject for Arts course from 1960. In

1975, Anthropology was introduced as Minor subject in Karnatak Science College.

In 1988, Anthropology was taught as one of the optional subjects, for both B.A and B.Sc courses. Practicals were introduced for B.Sc course in 2016 and subsequently for B.A in 2020. The department has a well equipped Anthropological laboratory with all necessary infrastructure. To enhance practical knowledge of students, they are taken to tribal hamlets, cancer hospital, Anthropological survey of India and other such places of Anthropological interest. The top scorer in Final degree course will get the Dr K.G. Gurumurthy Gold Medal at Karnatak University's annual convocation.



For further details, contact: Dr. V. Jagadeesh, Professor and HOD, Department of Anthropology, KACD. Mobile: +91 9449555274; Email: drvjagadeesh@gmail.com

DEPARTMENT OF KANNADA

The Kannada Department is one of the oldest Departments in KCD.

VISION: Create department of national repute to pronounce the eminence and significance of Kannada language and its classical prospects.

MISSION: Create and develop an exclusive academic work-culture leading to the enhancement of intellectual property of the department.

SALIENT FEATURES OF THE DEPARTMENT OF KANNADA:

- Established in the year 1921
- Linguistics wing was started in the academic year 1974-75 when Dr. R. C. Hiremath, a well known linguist, of India was the Vice-Chancellor of the Karnatak University.
- Folk Literature wing was started in the academic year 2002-03.

The department of Kannada has three sections. One section deals with Kannada languages and literature. The second section deals with languages and linguistics. The third one deals with folk literature. As these are inter-related disciplines, their main aim is to explore the knowledge regarding Kannada, Karnataka and Kannadigas. So an attempt has been made to teach Kannada language and literature in the light of the knowledge of Linguistics and Folk literature.

Teaching staff members in the Department of Kannada, KCD are listed:

1. Dr. D. B. Karadoni, Professor & Principal, KACD
2. Dr. (Smt.) M. R. Hiremath, Associate Professor & HOD
3. Dr. B. S. Bhajantri, Assistant Professor
4. Dr. Vamdev Talawar, Assistant Professor



Faculty members of the Department of Kannada, KCD; Left to right : Professor Dr. D. B. Karadoni (Principal of KACD), Associate Professor Dr. (Smt.) M. R. Hiremath (HOD), and Assistant Professors Dr. B. S. Bhajantri and Dr. Vamdev Talawar.

Some of the senior teachers are members of the Board of Studies at different Universities. The faculty members in the Department of Kannada play an important role in redesigning the syllabus, based on their experiences in teaching at the college and feed back from the students. So changes have been brought by the teachers in the curriculum.

For example communication skills, different linguistic domains are being taught to the students in the functional kannada classes.



For further details, contact: Dr. (Smt.) M. R. Hiremath, Associate Professor & HOD of Kannada, KACD. Mobile: +919886178267; E Mail: drmrhiremath@gmail.com

DEPARTMENT OF ENGLISH

The English department of KCD is as old as the college. The department was established in the year 1917.

VISION :

- To create awareness regarding the need of importance of English in today's competitive world
- To make the students of this Department globally competent.

MISSION :

Creating a keen interest in language and literature and hereby developing their literary skills and humanistic attitudes.

At present the department is having two sections. One deals with Language and Literature, whereas the other deals with Functional English. Functional English caters to the needs of corporate world wherein business etiquettes are taught.

STAFF MEMBERS (TEACHING STAFF):

There are nine permanent faculty members in the department. Four of them are Associate Professors and the rest five are Assistant Professors.

1. Dr. (Smt.) S. A. Jalihal, HOD and Associate Professor
2. Smt. K. A. Gaonkar, Associate Professor
3. Dr. M. K.V. Lamani, Professor
4. Dr. P.S. Subrahmanya Bhat, Associate Professor
5. Smt. Joan Leela Madtha, Assistant Professor
6. Dr. (Smt.) Vibhavari S. Kulakarni, Assistant Professor
7. Dr. Stella Steven, Assistant Professor
8. Dr. Channabasappa Inalli, Assistant Professor
9. Shri. Veerendra Yadav, Assistant Professor



Faculty members of the Department of English; (Left to Right:) Associate Professors Dr. (Smt.) S. A. Jalihal (HOD), Smt. K. A. Gaonkar, Professor Dr. M. K.V. Lamani and Associate Professor Dr. P.S. Subrahmanya Bhat.



Faculty members (Assistant Professors) of the Department of English; (Left to Right:) Smt. Joan Leela Madtha, Dr. (Smt.) Vibhavari S. Kulakarni, Dr. Stella Steven, Dr. Channabasappa Inalli and Shri. Veerendra Yadav.

The English study circle conducts several activities every year for Optional and Functional English students. Extra

curricular activities provide a platform to the students to exhibit their abilities and develop leadership qualities.

For further details, contact:



Dr. (Smt.) Kanchan A. Gaonkar, HOD and Associate Professor,
Department of English, KACD; Mobile: +91 9845817401;
E Mail: kanchangaonkar4@gmail.com

DEPARTMENT OF HINDI

The Hindi Department of KCD was established in the year 1953, with Prof. S. V. Bhat as the first teaching staff-member. From 1958 onwards, Hindi was introduced both as Major and Minor subject at the B.A. level. In 1959, post graduate instruction in Hindi as a subsidiary subject started in KACD. Subsequently, provision for the entire Hindi course was made from 1960. Dr. S. S. Kattimani of the Department of Hindi was promoted as a Principal of Karnatak Arts College in March 2011. Functional Hindi course is introduced in KCD from the year 1994. The Hindi language laboratory is equipped with computers and type writers, for training the students of Functional Hindi.

Now, the department of Hindi has one permanent staff member; Dr. Z. A. Gulagundi (Head of the Department) along with the Three Teaching Assistants and Two Guest Lecturers.

FEATURES AND OBJECTIVES :

The B.A., B.Sc. and B.Com courses extending over three academic years provide teaching and guidance for acquiring a

thorough knowledge of Hindi language and literature. These courses mainly aims at exposing the young generation to the nature, usages and terminology of Hindi, which is recognized as the official language of the Union by the Constitution of India.

SCOPE :

These courses are intended to make the students efficient to go straight away in to the job desks or to help them to take up self employment. These courses match the present and future employment opportunities.

PROSPECTS :

One becomes eligible for Job-oriented courses, several trades and employment such as

1. M.A. Course in Hindi
2. Post-Graduate Diploma course in Functional Hindi
3. Post-Graduate Diploma course in Translation
4. Employment as a Translators and Hindi Assistant
5. Employment as Journalists and Reporters.



For further details, contact: Dr. Zakir A. Gulagundi, Assistant Professor and Head of the Department of Hindi, KCD; Mobile: +91 9743276645; E Mail: zakirhussaingulagundi@gmail.com

DEPARTMENT OF URDU AND PERSIAN

The Department of Persian and started in the year 1918, with the appointment of Prof. A. M. Moulvi as Lecturer. Mr. A. M. Khatib joined as assistant lecturer in 1920. Pass course in Persian & Urdu was introduced in 1920. Honours course in Persian was introduced in 1921-22. In 1958, when the college was taken over by the Karnatak University, the Department of Urdu and Persian was adequately staffed to be able to introduce

the then new three year degree course. During 1968-69, Urdu was introduced as Major subject for the under Graduate courses and during 1970-71, it was made a principal subject at the post graduate level. The Post-Graduate Department was shifted to the University campus in July 1997; till then the P. G. Department was housed in Karnatak College. On rotation basis, the senior teacher from the department is appointed as chairperson, who looks after the activities of the academic year. Bazam-E-adab conduct activities, such as debate, Elocution, Quiz, Bait-Bazi, pick & speak, Essay writing competition, etc regularly with an intention to provide better stage for students to enhance the knowledge and communication skills. The certificates and prizes are given to the winners in the valedictory function.



Professor Dr. (Smt.) S. A. Kolar (HOD) and Associate Professor Dr. (Smt.) Saiyad Yasmin Fathima of the Department of Urdu and Persian, KCD.

The department offers Urdu as Basic and optional Subject to BA/BSC/B. Com/BSW students. The department of Urdu has an active study circle named as Bazm-e-Adab; the academic activities of the department are conducted through this study circle.



For further details, contact: Dr. (Smt.) S. A. Kolar, Professor and HOD, Department of Urdu & Persian, KCD; Mobile: +91 8147455635; E Mail: urdukscd@gmail.com

DEPARTMENT OF MARATHI

The department of Marathi was established in KCD IN the year 1937. Dr. S. G. Tulpule, popularly known as ‘Sham Go’ was a great scholar of Old Marathi literature, which covered Sant Sahitya of all the Saints. Various literary, theatre and film personalities including renowned poets used to attend the department of Marathi and deliver special lectures. At present Dr. Y. S. Raut is working in the Department. The subject, Marathi, is offered both as a basic and an optional subject for UG students. During the academic period of three years (Basic UG course), students are made to study prose and poetry, Biographies and Autobiographies Travelogue & Reports, History of Old Marathi literature and Modern Marathi literature through various texts.



For further details, Contact: Dr. Yashawant S. Raut, Assistant Professor and HOD of the Marathi Department, KCD; Mobile: +91 7019609893; E Mail: rautyashawantkud@gmail.com

STUDENT WELFARE OFFICE

Student Welfare Office is an important component of college or any institution. It plays vital role in assisting students to get their problems solved. Student Welfare Officer (SWO) will support students with safeguarding and/or welfare issues, to ensure that they are successful in conducting their programs. SWO is the first staff member to be approached by students with problems of a non-academic nature (mainly). Hence, the Head of the Institution or Principal will appoint any one of permanent faculty members based on his or her experience as Student Welfare Officer to assist students. SWO will assist Principal in organizing an “Induction program” for fresh students, Parents Meet, Academic Programs such as seminar competitions, Education Trips conducted by few departments as a part of curriculum. SWO will link the students with Non - Governmental Organizations (NGOs), and provide an opportunity for students to take up social activities or similar events. This helps students to understand social, economic problems faced by society and will turn them into responsible citizens, in future. SWO helps in organizing campus interviews in association with placement officer of the college. SWO gives required guidance to eligible students, to get various Scholarships, offered by Government and Non- Governmental funding agencies. SWO helps all students to open their saving bank account by giving the required introduction. Students always approach SWO to get their documents attested, as attestation by SWO is very much needed while applying for scholarships, exams, jobs and for other higher level courses. In this college, SWO is the member of selection committees for admission to both boys and girls hostels. During extraordinary situations like Covid-19 pandemic, the SWO bridges the gap between stake holders and college administration, and hence helps all students get proper medical care. Thus, SWO will

connect and build a rapport with a wide range of stakeholders and respond appropriately to their needs.



For further details, Contact:Dr. (Smt.) Saraswati Masti, Associate Professor of Chemistry, Student Welfare Officer (SWO), Karnatak Science College, Dharwad.

E Mail:dr.saraswatimasti@yahoo.com

Landline: 0836-2215410, +91 836 2215403

Kaveri Girls Hostel, Karnatak College Campus, Dharwad

Kaveri girls hostel is located in the campus of our college; the students residing here can reach any department of the college within 2 to 3 minutes. The hostel has two blocks (block I and block II); both are in same compound. The total capacity of the hostel (block I + block II) is around 500. The admission is done on the merit basis for the first year degree students. There are 100 rooms in block I with a general hall and 55 rooms in block II with a general hall. There are two wardens, who are permanent staff of our college (one for each block). There is a very cooperative administrative staff in hostel that do all the admissions and other office work. There are various Student secretaries (General, Cultural, Health, Sports, Mess, Lawn and Wing secretaries) elected by the students themselves, who take the responsibilities of the respective department and a student secretary (mostly from degree final year). Soon after the selections of the student secretaries, official welcoming of new hostel students is done.

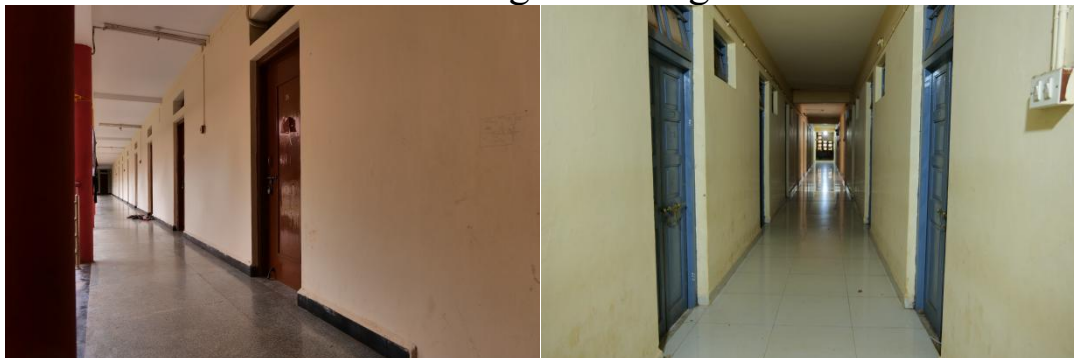


Photographs of the buildings of Kaveri Hostel (Block 1 and Block 2), which are present in the Karnatak College Campus.

All National and State festivals, like Independence Day, Karnataka Rajyotsava, Republic Day, Gandhi and Shastri Jayanti, Swami Vivekananda Jayanti and Dr. B. R. Ambedkar Jayanti are celebrated in the hostel. Apart from these celebrations, there is also the culture of conducting Hostel Day, where a renowned woman achiever is invited as the Special Invitee.

Facilities:

- Mess (provides good food in time according to university guidelines)
- Reading room (News papers :English and Kannada and Monthly magazines: competitive)
- TV room
- Solar water heater
- 24/7 security guard
- Watchmen at night
- Facilities for basic indoor games for girls



The photographs show the inside view of the hostel for girls (Kaveri hostel)



Dr. (Smt.) Keerthi Asthagimath (Left), Warden of Kaveri Hostel (Block I) and Associate Professor, Department of Statistics, Karnatak Arts College, Dharwad and Dr. Geeta Chavan (Right), Warden of Kaveri Hostel (Block II) and Asst. Professor, Department of Physics, Karnatak Science College, Dharwad.

E Mail:kaverihostelkcd@gmail.com

Landline: 0836-2215236

Godavari and Tungabhadra hostels for boys

Karnatak Science College, Dharwad is providing hostel facility for the Boy students of B. Sc., B. Sc. (CS) and BCA courses. The students admitted here are from remote areas and different districts of Karnataka state. The students are selected as per the merit and Karnatak University Guidelines. The selected students are accommodated in Godhavari and Thungabhadra hostels, which are located at Keshavanagar, Railway Station Road, Dharwad, very near to the college campus (Walk-able distance).



A view of the Godavari (Left) and Tungabhadra (Right) Hostels for Boys studying in K.Sc.C.D.

Both the hostels are well equipped with good lighting, drinking water, hygienic toilets, bath rooms, spacious rooms, individual cot and table facilities. Cultural and sports activities for the students are conducted regularly. Dr. Rajappa S. K., Assistant

Professor, Department of Chemistry is the incharge of hostel warden for boys. All the three hostels for boys are supervised by the higher authorities of Karnatak University, Dharwad.



For further details, contact : Dr. RAJAPPA S K. (Boys hostel incharge Warden), Assistant Professor, Department of Chemistry, Karnatak Science College, Dharwad.

E Mail: drrajappask@gmail.com

Landline: 0836-2215410 (Office)

Mobile: +91 9620626968

Dr. V. K. Gokak Library at Karnatak College, Dharwad

A well-equipped and well-managed library is the foundation of modern educational structure. The importance of library in education can be appreciated properly and precisely only if we try to understand the changing concepts of education. Today, education bereft of library service is like a body without soul. Education and library service are twin sisters and one cannot live apart from the other. The Karnatak College library has been catering to this thirst for knowledge to the users of Karnatak



College since its inception. In the beginning, the library was housed in the main Arts College building. Later, in 1977, the library was shifted to its present abode. The College library was known as the Central Library till

1991. It was renamed as “Dr. V.K. Gokak Library” on 1st January 1992, in the very presence of late Dr. V.K. Gokak, who was an eminent Principal of this college and a Jnanapeeth awardee; the library is a fitting tribute to his memory, as the esteemed Karnatak College, Dharwad reached its highest glory during his tenure as the College Principal. The College library also has its own departmental libraries, located in different departmental buildings spread over the college campus.

Vision:

Knowledge base, to empower the student community and the nation to create a just and Humane Society.

Mission:

To promote, and foster a culture of high quality teaching and learning process. Library is to provide access to information resources, services and in support of the evolving curriculum of the college.

Library Hours:

All working Days: 10.30 a.m. to 6.00 p.m.
Saturday: 10.30 a.m. to 2.30 p.m.
Sunday : Holiday

Working hours of Library during the Exam Time :

All working Days: 08.00 a.m. to 8.00 p.m.
Saturday: 08.00 a.m. to 6.00 p.m.
Sunday : Holiday

Details about the infrastructure (Dr. V. K. Gokak Library):

Total area of the Library: 3440.52 Sq. m.

Total seating capacity: 450

Total Number of Collection: 1, 82,308

Total Number of Periodicals:

- **Journals/ Magazines/ Newspapers:** 31

Finance Source: UGC and College grant

Book Collection: General, Reference, Text, Rare books, French, Hindi, Kannada, Urdu, Sanskrit, Archeology, criminology among many others.

Total seating capacity: Students: 450
Staff: 17



Ground Floor:

- Spacious Reading Hall, Separate Reading Hall for ladies
- Reference Counter
- Home issue sections for B.A. , B.Sc. , B.B.A. and B.Com
- Binding and Xerox section
- Ladies and Gents rest rooms



First Floor:

- Reading Hall 2.
- Newspaper and Journal section.
- Library office.
- Librarian chamber.
- UGC and Technical section.
- Internet section.

24/7 Reading Room

- To facilitate 24/7 reading room facility for the students.
- Total seating capacity: students: 100.

Library Advisory Committee:

Library committees are generally appointed for improving the library services and framing of policies to coordinates the library services and helps to provide high class library services. Dr. V.K. Gokak library has a library advisory committee for the effective functioning of the library. The committee comprises

Chairman: Principal, Arts/ Science

Member: two senior faculties (Arts and Science College)

Member: Two Student's Representatives

Secretary: Librarian.



The main functions of the Library advisory Committee are as follows.

1. To prepare budget proposals for the development of the Library
2. To formulate a development plan for the library.
3. To suggest the Librarian on the distribution of funds made available for the purchase of books, journals and other academic requirement.
4. To recommend to the authorities for collection of fees and other charges for the use of the Library.
5. To prepare the collection development and selection policy for library.
6. To upgrade towards modernization and improvement of Library and library services accordingly to the needs of the user.
7. To contribute a wider vision in building the future shape of Library services
8. To enhance the library aims towards the collection management and services, to establish advanced

techniques for blended e-learning and e-learning process with professional touch.



Library Collection:

The library has a unique collection comprised of different subjects such as Arts and Humanities, Basic Sciences, languages such as English, Kannada, Urdu, Sanskrit, Persian, French and Hindi. The library has a rare and rich collection of reference books like Gazetteers, Dictionaries, and encyclopedias which are useful for faculty and research scholars. The present collection of the library is 1, 82,308.

Binding section:

The library has separate binding section, the back volumes of journals and rare collection of the library are taken utmost care and it also supports the binding works to upkeep the departmental libraries and other miscellaneous bindings.

ICT Infrastructure:

The library has Separate internet section to the students in the UGC section. The students are provided 10 computers with internet facility. The students and staff can access the UGC INFLIBNET-NLIST consortium where you can access to 6237+ e-journals and 93809+ebooks.

The library has 16 computers with internet connectivity and 01 laser printer cum copier for the office purpose.

Library Automation:

The e-lib software is used for library automation. The Barcode of the books is being in process and the collection of the library is huge.

Physical Amenities:

- The library has drinking water facility in the premise.

- The provision of rest rooms for gents and ladies are provided separately.

Library Staff:

Library staff plays an important role for the effective and efficient functioning of library. The present staff of Dr. V.K.Gokak Library is as listed in the following table.

SL.. No.	Library Staff	Number
1.	Principal (I/C Librarian)	01
2.	Asst. Librarian	03
3.	Library Assistant	04
4.	Senior Assistant	02
5.	Binder	01
6.	Asst Binders	02
7.	Attenders and Peons	04
	Total Number of Staff	17

Library Services:

- Providing identity cards and home issue cards to the students for authentication and authorization.
- Lending of books in home issue section.
- Reference counter for reference reading in the library premises.
- The books are issued in UGC section for a period of one semester based on the selection process based on merit.
- Reference reading facility for U.G. and P.G. students in UGC section. The students can avail this facility along with regular reading of syllabus oriented books on submission of college identity cards.
- Newspaper, Magazine and Periodical section is provided to the students.
- Along with text books good numbers of reference books are made available to library users.
- Reprographic facility is made available to students, staff and research scholars.

- Internet facility is provided with UGC NLIST Programme. Library staff assistance in searching the database.
- Inter library loan facility is provided to students, staff and research scholars of our sister concerned collages and also to our Karnataka University staff and students.
- Career guidance for competitive exams and higher education.
- Newspapers Clipping service is provided.
- The library automation software (e-lib software) is installed and the work is in process. The students and staff can access the OPAC facility.
- User Orientation Programmes are conducted for the new students to make use of the library effectively.

Library Rules and Regulations:

- It is obligatory on all students of the college to be members of the library.
- It is mandatory for the students to bring the Identity cards to the library.
- Books will be issued only on presentation of the college Identity card of the students.
- The users of the library shall not write, scratch, mark or damage the library books, if so fine is levied.
- The students, staff and research scholars have to sign in the attendance register in the counter.
- The students have to maintain silence and abide by the rules and regulations of the college library.



Left: Group photo of staff members, Dr. V. K. Gokak Central Library, KCD. Right: Assistant Librarian Shri. Ashok M. Alakatti

For further details, Contact: Assistant Librarian Shri. Ashok M. Alakatti, Dr. V. K. Gokak Library, Karnatak College, Dharwad

E Mail: vkglib@yahoo.com ;

kcdvkgokakcentrallibrary@gmail.com

Landline: 0836-2951257

Mobile:+91 9886996733

SPORTS ACTIVITIES

The students of K.Sc.C.D have a wonderful opportunity to take part in various sports activities. The Physical Director (PD), Shri D. B. Govindappa, on the advice and support of the chairpersons and the student secretaries of different departments of the college Gymkhana organizes and conducts various sports activities in the college. Many students of the college have actively participated in different sports activities. The PD has trained good athletes and players in various games. The college has good infrastructure for indoor and outdoor games. There are two main playgrounds in the college campus. There is a 400 metre athletic track with eight lanes, a cricket ground, a foot ball and hockey ground, basket ball court, Volley ball court, Kho-Kho, throw ball and kabaddi courts. In addition, there are ball badminton, tennikott and tennis courts in the college campus.





There is a well maintained “Indoor Hall” for shuttle badminton, table tennis, chess and gym facilities. The college gymkhana provides standard equipment for selected teams to participate in tournaments. In addition to fee concession, the Gymkhana also provides diet and pocket money for outstanding sportsmen. Also, there is a provision for free medical check-up of sportsmen by experienced doctors. The outstanding sportsmen are honored in a function (Pratibha Puraskar) arranged in the Srijana Auditorium at the end of the even semester, each year.

For further details, contact:



Shri. D. B. Govindappa, Physical Director, Karnatak Science College, Dharwad.

E Mail:principal.kscd@gmail.com

Mobile Number: +91 9902675705

Landline number: 836-2215410

GYMKHANA: Department of Cultural Activities

The Cultural Activities is one of the important departments of Karnatak Science College Gymkhana, Dharwad. Cultural activities include various performing and non-performing arts

which are unique, and nurture the talent of the students. It is the culture hub for the faculty and students of our prestigious, century-old Institute. Karnatak Science College , Dharwad is not just an institute for home learning and knowledge; it also has a significant number of musicians, artists and sports persons who have represented themselves and the Institute at various levels. The Gymkhana provides all possible facilities, infrastructure and support, so that students can pursue extracurricular activities along with their academic work. The department of Cultural Activities conducts all the cultural activities of the college. Every year, the academic year starts by celebrating and remembering the founders of the College on 9th of August, immediately followed by Independence day celebration. The department has a chairperson a (permanent faculty of the college) and a student secretary (mostly from degree final year). The selection of the student secretary is done purely on merit basis, according to the laws of gymkhana. Soon after the selections of the student secretaries, the Inauguration function of cultural activities for the academic year and official welcoming of the first year under-graduate students is done (generally in the 4th week of August). Renowned personalities are invited as special guests for every function organized by the department of cultural activities.

The department takes the responsibility of conducting all National and State festivals, like Independence Day, Karnataka Rajyotsava, Republic Day, Gandhi and Shastri Jayanti, Swami Vivekananda Jayanti, Dr. B. R. Ambedkar Jayanti and Founders Day, Siddappa Kambli day, Valmiki Jayanti, Kanakadas Jayanti and Basava Jayanti. Various functions are organized by the Department of Cultural Activities, Karnatak Science College, Dharwad. Many dignified chief guests, who are experts in their field, are invited to address the students, thereby enhancing the knowledge of students and motivating them to achieve something great in their life. It is the culture in Karnatak Science College, Dharwad, to honor the achievers in both academic and also non academic (that is, extracurricular activities) streams at

the end of each academic year, by conducting the PRATIBHA PURASKARA FUNCTION.



For further details, Contact: Prof. Dr. V. B. Saviramath,
Chairperson of the Department of Cultural Activities, Karnatak
Science College Gymkhana, Dharwad; Associate Professor,
Department of Geography, Karnatak Science College, Dharwad.
E Mail: viramma.saviramath@gmail.com
Mobile number: +91 9449967423

GYMKHANA: Department of “Youth Festival”

Youth festival is one of the wings of the college gymkhana having the responsibility to nourish the talents of our students, other than curricular aspects. The student secretary of the youth fest will be chosen, one who has scored highest marks in their curriculum. The students are selected via audition by experts, for different categories of activities like folk dance, music, drama, mime, painting, photography, collage, mehandi, rangoli and many more. The selected students are further trained (if required, professionals are hired for training the students) in the respective activity and are taken to participate in the inter-collegiate youth fest competition.

Further, achievers in these fest are selected to participate in the inter-zonal youth fest conducted by University (Unifest) and winners in this competition are automatically chosen for participation in the South zonal youth fest. The students of Karnatak Science College, Dharwad have won 11 prizes in different categories during 2018-19), and three of them have participated in the Unifest for elocution, music and singing. One of them has represented the Karnatak University in south zone

youth festival. Students of Karnatak Science College, Dharwad are the runners-up in inter collegiate youth fest for 2019-20. About twenty nine students from Karnatak Science College, Dharwad have participated in Unifest in different categories like mimicry, cartooning, on the spot painting, collage, spot photography, group song, folk orchestra and dance. They have obtained the first, second and third prize in cartooning, folk dance and folk orchestra, respectively, and one of them has represented the Karnatak University, Dharwad in the south zone youth festival. Apart from this, the students also participated and won several prizes in the quiz competition conducted by the postal department and akashvani. Several students also participated in cultural programs conducted by different organizations.



For details, contact: Chairperson of “Youth Festival”
Department of Gymkhana, Asst. Prof. Smt. Kalpana Dalawai,
Department of Computer Science, Karnatak Science College,
Dharwad

E Mail: sayhi2kalpana@gmail.com

Landline: +91 836 2955415; +91 836 2215410

Mobile number: +91 9535997526

GYMKHANA: Reading Room

Apart from the curricular training, the students of our college are encouraged to take part in extra curricular activities through Gymkhana. Reading room is one of the departments of Karnatak Science College Gymkhana, which is headed by a permanent faculty member as a Chairperson. The Student secretary is selected, based on merit.



Reading of books, general newspapers, magazines develops our thoughts, imparts us endless knowledge, improves vocabulary, helps us visualize things and keeps our mind active and improves memory, helps in communication. The main aim of this department is to build the understanding and awareness in students about handling different situations, and also to enhance their imagination, creativity, positive thinking and writing. It gives them an opportunity to understand the social, economic and political problems and current affairs of the society and country. It helps them understand the scientific research scenario of the country and various National institutes of higher education, provides employment opportunity, and helps in their holistic development. In general, reading turns them into good citizens of the country.

The department provides infrastructure and furniture for the students to spend their leisure time without wasting time. The Reading room department provides daily news papers like Prajavani and Deccan Herald to the students which is kept in “Students Home”, for reference in their leisure time. It also provides Weekly magazine like Sudha, Women’s Era which helps for the overall development of the lady students, other

magazines such as Science Today, India Today, Current Affairs, Competition Success, Spardha Spoorti are helpful for the students to take up Public Service Exams like IAS, KAS, IPS and Banking screening examinations.



For details, contact: Chairperson of “Reading Room”
Department of Gymkhana, Dr. Smt. Reshma Nesargi,
Department of Physics, Karnatak Science College, Dharwad.

E Mail: reshma.nesargi@gmail.com

Landline: 0836-2215402; Mobile: +91 9916265737; E Mail:
reshma.nesargi@gmail.com

Akka Association

Akka Association is a unique association comprising of all the lady teaching faculty, girl students of M.Sc., B.Sc., B.C.A., and also the non-teaching lady staff members of the Karnatak Science College, Dharwad; all these ladies are the members of this association, which has a Chairperson and two student representatives. As the name suggests, ‘AKKA’ means an elder sister; the association takes care of the girl students and lady staff members. Its main motto is to strengthen the girl students in all aspects, and to build a happy and healthy environment among them.

The Akka association organizes Workshops, Special Lectures and Extension programmes, giving priority to women education, awareness of law, Health issues and women entrepreneurship. Students are encouraged to participate in various programmes, seminars and conferences in the different fields, which are arranged not only in the college, but also other institutions. It also provides a platform for the girl students to come out with

their hidden talents, like Dance, Music, Rangoli, Painting , Debating, and Cookery, by conducting various competitions .

The AKKA association also has the responsibility of two more important units, details of which follow.

1) A counselling cell “SNEHA” where counselling sessions are arranged for the benefit of girl students by inviting psychiatrists and also medical professionals from the field of Gynaecology.

2) Anti-sexual Harassment cell:- This is concerned with solving the problems of ragging or any other harassment faced by the girls in the society.

The Chairperson, Girls representatives (Secretaries) and all the Ladies staff of the College are actively involved in the functioning of this association. The work done by this association is highly appreciated by the members of NAAC committee.



For further details, Contact: Smt. Ambika R, Asst. Prof. of Computer Science & Chairperson, Akka Association, Karnatak Science College, Dharwad.

E Mail: ambikadhane@gmail.com

Mobile number: +91 9481519265

Miscellany

The Karnatak College has the tradition of publishing a Miscellany -A college magazine ever since its inception in 1917. It was then an important forum having a Professor of Language to work as Chairman or Chief Editor of the magazine, and it was publishing the articles, poems written by students, reports of activities and also recording important state and national events. In the beginning, two editions were published in one academic year and later it only one edition was brought out. When Karnatak Science College got independent existence as a

result of bifurcation, the college gymkhana (for Karnatak Science College Dharwad) was also newly formed. The Karnatak Arts College Miscellany is named as “Ninaad” and Karantak Science College Miscellany is named as “Varnasaptak”.

The students are encouraged to write articles and scientific paper on different topics related to science, literature and humanity in many languages, as well as stories and poems for inclusion in the college miscellany ‘Varnasaptaka’ every year. It also contains reports of various cultural and sports activities, curricular, co curricular and extra-curricular activities along with photographs, drawings, sketches and speech of the Principal on the occasion of Independence Day and Republic Day celebrations and messages of eminent personalities.

The department of Miscellany has a chairperson as a Chief Editor of Varnasaptaka (permanent faculty of the college) and a student secretary as student editor (mostly from degree final year/ semester) and an editorial board having representatives from all the departments. The selection of the student secretary is done purely on merit basis or competition conducted according to the laws of gymkhana.



For further details, Contact:

Prof. Dr. Manjali S. Salunke, Chairperson of the Department of Miscellany, Karnatak Science College Gymkhana, Dharwad;
Professor, Department of Chemistry & Principal, Karnatak Science College, Dharwad.

E Mail: mssalunke@gmail.com

Landline: +91 836 2215403; Mobile: +91 9448861528

Science Association

Science Association is an academic body which is working for the academic activities of students with different subjects in the name of “study circles” in all the departments and secretaries of each department as Student representatives. It conducts various activities throughout the year to inculcate scientific temper, science awareness among students. Many activities such as quiz programme, scientific exhibition, debates, Seminars, Essay competitions and drawing competition are conducted for the students. Special lecture series, Endowment lectures and Memorial lectures are arranged in the college by inviting eminent scholars. The University also arranges a series of foundation lectures for our students under the banner of Science association.

Science association has a chairperson as (permanent faculty of the college) and a student secretary as student editor (mostly from degree final year) and having student representatives from all the classes. The selection of the student secretary is done purely on merit basis.



For further details, Contact:

Prof. Dr. Blaise Lobo, Chairman of Science Association,
Karnatak Science College, Dharwad

EEmail: blaisefranklobo@gmail.com

Phone/Mobile:+91 836 2215402; +91 9844145087

The Chairpersons of the different departmental study circles are as follows.

1. Prof. Dr. K. P. Kolkar - Department of Botany
2. Prof. Dr. S. Manjunatha - Department of Geology
3. Prof. Dr. (Smt.) V. B. Saviramath - Department of Geography
4. Dr. (Smt.) R. D. Sanakal - Department of Zoology
5. Dr. (Smt.) Nirupama J. M - Department of Physics
6. Dr. R. G. Kalkhambkar - Department of Chemistry
7. Lt. Rajshekhar Baraker - Department of Computer Science
8. Shri. Ramdas W - Department of Criminology & Forensic Science

NCC Activities

Our College has a National Cadet Corps (NCC) Army wing with the motto “Unity and Discipline”. NCC is engaged in grooming the youth of the country into disciplined and patriotic citizens. The NCC is a voluntary organization which recruits cadets from students studying in Degree (UG) courses in our college (K.Sc.C.D).

The NCC unit in our college works under the supervision of 24 battalion NCC Karnatak and Goa directorate. The total intake of the Unit is 160. Registered cadets are given basic military training in small arms and parades. Students are encouraged to attend different camps as a part of the NCC program, like Republic day camp, ATC camp, TSC camp and CATC camp. The cadets with leadership qualities are chosen as SUOs and JUOs.



For further details, contact :Lt. Rajshekhar V. B,

Assistant Professor (BCA/ B.Sc. (CS)), Karnatak Science College, Dharwad. Lt. Rajshekhar V. B is also the **Placement Officer** of Karnatak Science College, Dharwad.

Email: rajshekhar.baraker@gmail.com

Mobile number: +91 9590061642

NSS Activities

Karnatak Science College has a well established NSS Unit consisting of one hundred volunteers. National Service Scheme (NSS) is beneficial to both students as well as society in various means. NSS helps the students to grow individually and also as a group. It makes the students confident, develop leadership skills and gain knowledge about different people and society. NSS volunteers work in rural areas, adopted villages and in society through education and health awareness programs. NSS helps to develop sense of social and civic responsibility. The NSS unit of Karnatak Science College regularly conducts a number of programs every year in order to help the college and also the society. Some programs conducted by the NSS Unit of K.Sc.C.D are listed here.

- NSS volunteers regularly participate in campus cleaning activities in the name of “Shramadana”. In this, volunteers are involved in “Plastic free campus programme” and “cleaning campus programme”.
- Every year, fifty NSS volunteers participate in the “seven days rural NSS camp” conducted in selected village. In this camp, students develop leadership qualities, cleanliness of society and self confidence. Every day, there is a special lecture by resource persons from different fields.
- Cultural activities by students are one of the highlights of the NSS camp.



For further details about NSS and its activities, contact:
Dr. S. S. Mangalawade, NSS Officer, Department of Zoology,
Karnatak Science College, Dharwad
E Mail: mangalawadess@gmail.com; Mobile number: +91
9741621010

College Office

The Office of the Karnatak Science College, Dharwad is located on the first floor of the main building, which also houses the Chambers of the Principal, the Department of Chemistry (UG & PG) and the Department of Geology. There are eight permanent non-teaching staff members in the Office, who are aided by eleven supporting staff members (working on contract basis). The list of permanent non-teaching staff members follows.

1. Shri. N. K. Tadani (O.S)
2. Shri. Shrishail C. Hangaragi (A.O.S)
3. Shri. Shareef B. Rajannavar (Sr. Asst.)
4. Shri. Ambadas B. Neginahal (Sr. Asst.)
5. Shri. Mailarappa N. Sakrannavar (Sr. Asst.)
6. Shri. Atmanand Badiger (Sr. Asst.)
7. Smt. Vijayalakshmi V. Talawar (Jr. Asst.)
8. Shri. R. B. Horaginamath (Peon)



Shri. N. K. Tadani (Office Superintendent., OS) supervises the Office work in the college; LANDLINE: 0836-2215410



Shri. Shrishail C. Hangaragi (Assistant Office Superintendent., AOS) is allotted College PD account, in addition to all other account maintenance. He also supervises the Office work in the college; Mobile: +91 9449032335



Left: **Shri. Shareef B. Rajannavar** (Senior Assistant) is allotted PUC first year Admission, in addition to all other work plus PUC PD account; Mobile: +91 9449051243, and (in the photograph on the right) **Shri. Atmanand Badiger** (Senior Assistant) is allotted B.Sc. 5th and 6th Semester admission (in addition to all other work)



Left: **Shri. Ambadas B. Neginahal** (Senior Assistant) is allotted PUC 2nd year admission (in addition to all other work) plus BCA PD account. Mobile: +91 9740605224. Right: **Shri. Mailarappa N. Sakrannavar**, Senior Assistant. He is allotted B.Sc. III & IV Semester Admission work, in addition to other office work.



Left: Smt. Vijayalaxmi V. Talawar, Junior Assistant. She is allotted work in the Scholarship Section, in addition to preparations of TA/GF/ Salary bills, in addition to all other office work allotted by the O.S from time to time. Right: View of the college office, during its working hours.



Group photograph of the Office Staff, Karnatak Science College, Dharwad. Seated (Left to Right): Shri. Prakash P. Kulkarni (Ex-O.S who retired on 31-7-2023) and Shri. Shrishail C. Hangaragi (AOS). Standing Left to right : Shri. A.B.Neginal, Shri. Mahantesh Ilakal, Shri. M.N.Sakrennavar Shri. Jagadeesh Sunkannavar, , Jayashree Kalburgi, Renuka Muttati, Vijayalaxmi Talawar, Mahadevi Akki, Shri. Mallikarjun B. Shri. Nagaraj Kalmani Shri. Atmanand Badiger, Basavaraj Tambakad, Manjunath Tibeli , Shri. S.B. Rajannavar and Shri. Ulavappa Meti

For further details, contact:



**Shri. N. K. Tadani,
Office Superintendent**

**Office of the Karnatak Science College, Dharwad.
Mobile: +91 9449032335, 0836-2215400, 0836-2971183**

Internal Quality Assessment Cell (IQAC)

The IQAC of KSCD is an important component of the college, headed by Dr. L. T. Nayak (Chairman), Associate Professor of the Department of Geography, KScCD. Dr. S. Manjunatha, Associate Professor of the Department of Geology, Dr. (Smt.) Nirupama J. M, Assistant Professor of the Department of Physics, Dr. (Smt.) Kalpana Dalwai, Assistant Professor in the Department of Computer Science, and Dr. Narayankar, Teaching Assistant of the Department of Geography are the members of IQAC

PROSPECTUS COMMITTEE MEMBERS 2023-24

1. Prof. Blaise Lobo, Chairman
2. Dr. Harsha Neelgund, Member
3. Dr. Rajappa S K, Member
4. Smt. Ambika R, Member
5. Shri. P. P. Kulkarni (Ex-O.S), Member



Prof. Blaise Lobo (Chairman), Dr. Harsha Neelgund, Dr. Rajappa S K, Dr. (Smt.) Ambika R and Shri P. P. Kulkarni (OS; Rtd. on 31-7-2023) have

worked as members of the Prospectus Committee of Karnatak Science College, Dharwad for 2023-24

Chairpersons of different Criteria for NAAC:

1. Criterion 1 : Dr. R. G. Kalkhambkar
2. Criterion 2: Dr. Harsha D. Neelgund
3. Criterion 3: Dr. Blaise Lobo
4. Criterion 4: Dr. K. S. Katagi
5. Criterion 5: Dr. S. S. Motebennur
6. Criterion 6: Dr. S. K. Rajappa
7. Criterion 7: Dr. (Smt.) Jayalakshmi K



Dr. R. G. Kalkhambkar, Dr. Harsha D. Neelgund, Dr. Blaise Lobo, Dr. K. S. Katagi, Dr. S. S. Motebennur, Dr. S. K. Rajappa, and Dr. (Smt.) Jayalakshmi K are the Chairpersons of the different Criteria of NAAC work related to the college (KScCD).

ANNEXURE 1

Fee structure for UG: B. Sc I/II Semester Courses for the Academic Year-2023-2024

A: KARNATAK UNIVERSITY GENERAL FUND ACCOUNT

Sl.No	BH No.	Particulars	Fees for all categories including General Merit (GM)
01	201	Admission Fee	50.00
02	202	Tuition Fee	1330.00
03	203	Laboratory Fee	550.00
04	204	Library Fee	400.00
05	205	Sports Fee	250.00
06	207	Poor Students Aid Fund	25.00
07	251	Registration Fee	550.00
08	252	Penal Fee	00.00
09	308	Miscellaneous Fee (General)	00.00
10	422	Youth Festival Fee	25.00
11	603	Medical Fee	255.00
12	813	Sports Development Fee	50.00
13	814	Students welfare Fund	50.00
14	815	Career Guidance Service Fund	30.00
15	816	Student Safety Insurance	25.00
16	817	College Development Council Fund	20.00
17	821	NSS Fee	25.00
18	824	Karnatak University Student Benefit Scheme (KUSBS)	30.00
19	828	K U Corpus Fund Fee	140.00
20	831	University Alumini Fee	00.00
		Total	Rs. 5,565.00

21		Enhanced Fees For General Merit	Rs. 15,000.00
		For SC/ST/C-1 (Below Rs. 2.50 Lakh Income)	Rs. 7,500.00
		Grand Total For General Merit	Rs. 20,565.00
		Grand Total For SC/ST/C-1 (Below Rs. 2.50 Lakh Income)	Rs. 13,065.00

Fee structure for UG B. Sc I/II Semester Courses for the Academic Year-2023-2024 and onwards

B: COLLEGE P.D. ACCOUNT

Sl.No	Particulars	Fees for all categories including General Merit (GM)
01	C.D.C	10.00
02	Sports Fee	20.00
03	NSS Fee	25.00
04	Sports Development Fund	25.00
05	Poor Students Aid Fund	15.00
06	Youth Festival Fund	10.00
07	Red Cross Fee	95.00
08	Karnatak University Student Benefit Scheme (KUSBS)	20.00
09	Student Welfare Fund	40.00
10	Union Fees (Gymkhana)	485.00
11	Caution Money	70.00
12	Study Circle Fees	55.00
13	Teacher Benefit Fund	75.00
14	College Development Fund	270.00
15	Identity Card Fees	55.00
16	Reading Room Fees	275.00
17	Magazine Fees	120.00
18	Communication Fees	45.00
19	Borrows Library Card Fees	25.00
20	NCC fees	25.00
	Total	Rs. 1,760.00

SPECIAL LABORATORY FEES FOR THE ACADEMIC YEAR-2023-24

In its wide letter dated **14-06-2022** No:KU/Aca/(S&T)/SSL-411/2022-23/435*, Students who have opted Non-Grant-in-Aid subjects like, Microbiology, Genetics, Biotechnology, Computer Science, Electronics and Industrial Fish and Fisheries as one of the optional subjects (DSCC) have to pay the additional fees given below. Students have to collect special lab fees Challan from the Office. (Challan-3) or through SBI collect or KUD General Fund.

Sl.No	Subject	General Merit and Others	SC/ST/C-1
01	Microbiology	15,000-00	7,500-00
02	Genetics	15,000-00	7,500-00
03	Biotechnology	15,000-00	7,500-00
04	Computer Science	15,000-00	7,500-00
05	Electronics	15,000-00	7,500-00
06	Industrial Fish and Fisheries	15,000-00	7,500-00
07	Enhanced Fees for Grant-in-Aid subjects	Rs. 15,000-00	Rs. 7,500-00
	Grand Total	Rs. 30,000-00	Rs. 15,000-00

***For SC/ST/C-1 students if Income is below Rs. 2, 50,000-00 have to produce Caste and Income Certificate.**

Fee structure for UG-B.C.A (Bachelor of Computer Applications) I/II Semester Courses for the Academic Year-2023-2024 and onwards

A: KARNATAK UNIVERSITY GENERAL FUND ACCOUNT

Sl.No	BH No.	Particulars	Fees for all categories including General Merit (GM)
01	201	Admission Fee	30.00
02	202	Tuition Fee	890.00
03	203	Laboratory Fee	350.00
04	204	Library Fee	90.00
05	205	Sports Fee	250.00
06	207	Poor Students Aid Fund	25.00
07	251	Registration Fee	1800.00
08	252	Penal Fee	00.00
09	308	Miscellaneous Fee (General)	00.00
10	422	Youth Festival Fee	25.00
11	603	Medical Fee	180.00
12	813	Sports Development Fee	50.00
13	814	Students welfare Fund	50.00
14	815	Career Guidance Service Fund	30.00
15	816	Student Safety Insurance	20.00
16	817	College Development Council Fund	20.00
17	821	NSS Fee	25.00
18	824	Karnatak University Student Benefit Scheme (KUSBS)	30.00
19	828	K U Corpus Fund Fee	140.00
20	831	University Alumini Fee	
		Total	Rs. 4,005.00
21		Enhanced Fees For General Merit	Rs. 14,315.00
		Enhanced Fees For SC/ST/C-1 (Below Rs. 2.50 Lakh Income)	Rs. 7,160.00

Fee structure for UG-B.C.A (Bachelor of Computer Applications) I/II Semester Courses for the Academic Year-2023-2024 and onwards

B: COLLEGE P.D. ACCOUNT

Sl.No	Particulars	Fees for all categories including General Merit (GM)
01	Student Welfare Fund	05.00
02	Union Fees	355.00
03	Caution Money	40.00
04	Study Circle Fees	40.00
05	College Development Fund	80.00
06	Identity Card Fees	60.00
07	Reading Room Fees	200.00
08	Magazine Fees	100.00
09	Communication Fees	30.00
10	Karnatak University Students Benefit Scheme (KUSBS)	15.00
11	Borrows Library Card	30.00
12	Course Development Fees (Per Year)	15,335.00
13	Course Material Fees (Per Year)	2,360.00
14	Teacher Benefit Fund	60.00
15	NCC Fees	10.00
16	Processing Fees	250.00
	Total	Rs. 18,970.00
A	Normal Fees Structure for General Merit	Rs. 4,005.00+Rs. 18,970.00=Rs. 22,975.00
B	Normal Fees Structure for SC/ST/C-1	Rs. 4,005.00+Rs. 18,970.00=Rs. 22,975.00
C	Enhanced Fees Structure For General Merit and others	Rs. 22,975.00+Rs. 14,315.00=Rs. 37,290.00
S	Enhanced Fees Structure For SC/ST/C-1 (If Income Below Rs. 2.50	Rs. 22,975.00+Rs. 7,160.00=Rs. 30,135.00

	Lakh)	
--	-------	--

*For SC/ST/C-1 students if Income is below Rs. 2, 50,000-00 have to produce Caste and Income Certificate.

Subject wise student's intake capacity for B. Sc. Programme

ANNEXURE -1

SI No	Subjects (DSCC)	Normal Fees	Enhanced Fees	Total
01	Chemistry	250	100	350
02	Physics	80	40	120
03	Botany	90	40	130
04	Zoology	90	40	130
05	Mathematics	150	40	190
06	Statistics	50	10	60
07	Criminology and Forensic Science	40	10	50
08	Geology	50	10	60
09	Geography	30	10	40
10	Anthropology	30	05	35
11	Biotechnology	30	10	40
12	Microbiology	30	10	40
13	Genetics	30	10	40
14	Industrial Fish and Fisheries	30	10	40
15	Computer Science	60	10	70
16	Electronics	30	05	35
17	Psychology	20	00	20

18

B.C.A

40

140

180

**ANNEXURE 2: List of Discipline Specific Core Courses (DSCC)
for B. Sc I SEM under Normal Fees Structure**

Sl. No	DSC-1	DSC-2	Seats	Fees for GM/Others	For SC/ST/C-1 (Below Rs.2.5 L)
1	Physics	Chemistry	20	5605	5605
2	Physics	Electronics	10	15000+5605=20605	7500+5605=13105
3	Physics	Comp-Science	10	15000+5605=20605	7500+5605=13105
4	Physics	Mathematics	20	5605	5605
5	Physics	Statistics	10	5605	5605
6	Physics	Geology	10	5605	5605
7	Physics	Forensic Science and Criminology	05	5605	5605
8	Electronics	Forensic Science and Criminology	10	15000+5605=20605	7500+5605=13105
9	Botany	Electronics	05	15000+5605=20605	7500+5605=13105
10	Botany	Chemistry	20	5605	5605
11	Botany	Zoology	25	5605	5605
12	Botany	Geography	05	5605	5605
13	Botany	Geology	05	5605	5605
14	Botany	Genetics	10	15000+5605=20605	7500+5605=13105
15	Botany	Micro-Biology	10	15000+5605=20605	7500+5605=13105
16	Botany	Bio-Technology	10	15000+5605=20605	7500+5605=13105
17	Botany	Anthropology	05	5605	5605
	Botany	Industrial Fisheries	15	15000+5605=20605	7500+5605=13105
18	Chemistry	Mathematics	70	5605	5605
19	Chemistry	Zoology	10	5605	5605
20	Chemistry	Geography	15	5605	5605
21	Chemistry	Statistics	10	5605	5605
22	Chemistry	Geology	15	5605	5605
23	Chemistry	Forensic Science and Criminology	10	5605	5605
24	Chemistry	Anthropology	15	5605	5605
25	Chemistry	Genetics	10	15000+5605=20605	7500+5605=13105
26	Chemistry	Micro-Biology	10	15000+5605=20605	7500+5605=13105
27	Chemistry	Bio-Technology	10	15000+5605=20605	7500+5605=13105
28	Chemistry	Industrial Fisheries	15	15000+5605=20605	7500+5605=13105
29	Chemistry	Psychology	05	15000+5605=20605	7500+5605=13105
30	Computer Science	Psychology	05	15000+5605=20605	7500+5605=13105
31	Computer Science	Mathematics	15	15000+5605=20605	7500+5605=13105
32	Computer Science	Geography	05	15000+5605=20605	7500+5605=13105
33	Computer Science	Statistics	10	15000+5605=20605	7500+5605=13105
34	Computer Science	Geology	05	15000+5605=20605	7500+5605=13105
35	Computer Science	Forensic Science and	05	15000+5605=20605	7500+5605=13105

		Criminology			
36	Computer Science	Anthropology	05	15000+5605=20605	7500+5605=13105
37	Mathematics	Statistics	20	5605	5605
38	Mathematics	Geology	10	5605	5605
39	Mathematics	Forensic Science and Criminology	05	5605	5605
40	Mathematics	Psychology	05	5605	5605
41	Zoology	Forensic Science and Criminology	05	5605	5605
42	Zoology	Genetics	10	15000+5605=20605	7500+5605=13105
43	Zoology	Micro-Biology	10	15000+5605=20605	7500+5605=13105
44	Zoology	Bio-Technology	10	15000+5605=20605	7500+5605=13105
45	Zoology	Industrial Fisheries	15	15000+5605=20605	7500+5605=13105
46	Zoology	Electronics	05	15000+5605=20605	7500+5605=13105
47	Zoology	Anthropology	05	5605	5605
48	Zoology	Psychology	05	5605	5605
49	Geography	Geology	05	5605	5605
		Total	545		

ANNEXURE 3: B. Sc Programme: List of Discipline Specific Core Courses (DSCC) under Enhanced Fee Structure:

Sl.No	DSC-1	DSC-2	Seats	Fees for GM/Others	For SC/ST/C-1 (Below Rs.2.5 Lakh income)
1	Physics	Chemistry	25	15000+5605=20605	7500+5605=13105
2	Physics	Electronics	5	15000+15000+5605=35605	7500+7500+5605=20605
3	Physics	Mathematics	10	15000+5605=20605	7500+5605=13105
4	Botany	Zoology	10	15000+5605=20605	7500+5605=13105
5	Botany	Chemistry	10	15000+5605=20605	7500+5605=13105
8	Botany	Genetics	5	15000+15000+5605=35605	7500+7500+5605=20605
6	Botany	Geography	5	15000+5605=20605	7500+5605=13105
9	Botany	Anthropology	5	15000+5605=20605	7500+5605=13105
7	Botany	Geology	5	15000+5605=20605	7500+5605=13105
10	Chemistry	Mathematics	20	15000+5605=20605	7500+5605=13105
11	Chemistry	Zoology	5	15000+5605=20605	7500+5605=13105
12	Chemistry	Geography	5	15000+5605=20605	7500+5605=13105
13	Chemistry	Geology	5	15000+5605=20605	7500+5605=13105
14	Chemistry	Forensic Science and Criminology	5	15000+5605=20605	7500+5605=13105
15	Chemistry	Genetics	5	15000+15000+5605=35605	7500+7500+5605=20605
16	Chemistry	Micro-Biology	5	15000+15000+5605=35605	7500+7500+5605=20605
17	Chemistry	Bio-Technology	5	15000+15000+5605=35605	7500+7500+5605=20605
18	Chemistry	Industrial Fisheries	5	15000+15000+5605=35605	7500+7500+5605=20605
19	Computer Science	Mathematics	5	15000+15000+5605=35605	7500+7500+5605=20605
20	Computer Science	Statistics	5	15000+15000+5605=35605	7500+7500+5605=20605
21	Mathematics	Statistics	5	15000+5605=20605	7500+5605=13105

22	Zoology	Forensic Science and Criminology	5	15000+5605=20605	7500+5605=13105
23	Zoology	Anthropology	5	15000+5605=20605	7500+5605=13105
24	Zoology	Micro-Biology	5	15000+15000+5605=35605	7500+7500+5605=20605
25	Zoology	Bio-Technology	5	15000+15000+5605=35605	7500+7500+5605=20605
26	Zoology	Industrial Fisheries	5	15000+15000+5605=35605	7500+7500+5605=20605

CONGRATULATIONS
STUDENT ACHIEVERS IN SPORTS 2022-23



Tanuja Mampur

Champa A

Bhagya Desai

THE PRINCIPAL AND STAFF MEMBERS OF KARNATAK SCIENCE COLLEGE, DHARWAD PROUDLY CONGRATULATE MS. TANUJA F MANTUR (B.SC. 4TH SEMESTER: UNIVERSITY BLUE IN "BASKETBALL AND NETBALL"), MS. CHAMPA A (B.SC. 1ST SEMESTER: FIRST PLACE IN INVITATIONAL OPEN KARATE NATIONAL EVENT) AND MS. BHAGYA M. N. DESAI (B.SC 6TH SEMESTER; UNIVERSITY BLUE IN HOCKEY) FOR THEIR ACHIEVEMENTS IN SPORTS.