

Karnatak University's



Karnatak Science College, Dharwad
NAAC Accredited



ACADEMIC AND ADMINISTRATIVE
AUDIT REPORT
2019-2020



Submitted
to

Karnatak University, Dharwad.



Karnatak University's
KARNATAK SCIENCE COLLEGE
College Road, Dharwad-580 001
NAAC Accredited



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PROFILE OF THE COLLEGE

1. Name of the College: **Karnatak Science College, Dharwad.**
2. Courses offered in the College:
- (a) Under graduate: B.Sc., BCA, B.Sc. (C S)
- (b) Post Graduate: M.Sc. in Chemistry, M.Sc. in Physics & M.Sc. in Mathematics.
- (c) Ph.D./M.Phil: All departments except B.C.A are having doctoral programmes
3. Self- financing courses: M.Sc. in Chemistry, M.Sc. in Physics & M.Sc. in Mathematics.

4.Details of students strength in the College for the year 2019-20:

Course		Category			Total
		SC	ST	Gen.	
B.Sc.					
I & II Sem	Male	43	18	144	205
	Female	32	04	177	213
III & IV Sem	Male	40	13	109	162
	Female	35	10	199	244
V & VI Sem	Male	29	18	89	136
	Female	25	14	164	203
GRAND TOTAL		204	77	882	1163

Course		Category			Total
		SC	ST	Gen.	
BCA					
I & II Sem	Male	4	1	23	28
	Female	4	2	30	36
III & IV Sem	Male	5	1	15	21
	Female	6	1	32	39
V & VI Sem	Male	3	2	12	17
	Female	7	1	27	35
GRAND TOTAL		29	08	139	176

Course		Category			Total
B.Sc. (Comp. Sc.)		SC	ST	Gen.	
I & II Sem	Male	2	2	14	18
	Female	3	3	20	26
III & IV Sem	Male	1	0	14	15
	Female	3	4	28	35
V & VI Sem	Male	1	2	11	14
	Female	1	1	32	34
GRAND TOTAL		11	12	119	142

Course		Category			Total
M.Sc.-Chem		SC	ST	Gen.	
I & II Sem	Male	Nil	02	07	09
	Female	04	02	05	11
III & IV Sem	Male	02	01	04	07
	Female	01	Nil	31	32
GRAND TOTAL					59

Course		Category			Total
M.Sc.-Physics		SC	ST	Gen.	
I & II Sem	Male	01	NIL	08	09
	Female	01	01	09	11
III & IV Sem	Male	01	NIL	07	08
	Female	Nil	02	20	22
GRAND TOTAL					50

Course		Category			Total
M.Sc.- Mathematics		SC	ST	Gen.	
I & II Sem	Male	01	01	07	09
	Female	03	Nil	23	26
III & IV Sem	Male	Nil	Nil	11	11
	Female	01	02	34	37
GRAND TOTAL					83

5. Total number of teaching staff: Permanent Faculty: 43
Workload Per Week: As per U.G.C. norms

Sl. No	Name of the teacher & Department	Designation	Qualifications	Specialization and Area of Research
Department of Botany				
1	Dr. B. S. Giryappanavar	Associate Prof.	M.Sc., Ph.D.	Phycology & Environmental Science.
2	Dr. (Smt.) Doris Singh	Associate Prof.	M.Sc., M.Phil., Ph.D	Microbiology
3	Dr. K. Kotresh	Associate Prof.	M.Sc., M.Phil, Ph.D	Taxonomy & Bio-Systematics
4	Dr. C. G. Patil	Associate Prof.	M.Sc. Ph.D.	Genetics & Molecular Biology.
5	Dr. K. P. Kolkar	Associate Prof.	M.Sc., M.Phil., Ph.D.	Reproductive Physiology & Morphogenesis
Department of Chemistry				
6	Dr. (Smt.) M. S. Salunke	Associate Prof.	M.Sc., Ph.D	Inorganic Chemistry & Chemical Kinetics
7	Dr. S. D. Dummawad	Associate Prof.	M.Sc., Ph.D	Inorganic Chemistry & Coordination Compounds
8	Dr.(Smt.)V. A. Amminabhavi	Associate Prof.	M.Sc., Ph.D	Physical & Polymer Chemistry.
9	Dr. S. M. Tuwar	Associate Prof.	M.Sc., Ph.D	Physical Chemistry & Chemical Kinetics
10	Dr. O. Kotresh	Associate Prof.	M.Sc., Ph.D	Organic Chemistry & Sydnones
11	Dr. Raj Kalkambakar	Assistant Prof.	M.Sc., Ph.D	Organic Chemistry
12	Dr. K. S. Katagi	Assistant Prof.	M.Sc., Ph.D	Organic Chemistry
13	Dr.(Smt.) Jayalaxmi	Assistant Prof.	M.Sc., Ph.D	Physical Chemistry
14	Dr. (Smt.) S. P. Masti	Assistant Prof.	M.Sc., Ph.D	Inorganic Chemistry
15	Dr. Rajappa	Assistant Prof.	M.Sc., Ph.D	Industrial chemistry
Department of Criminology & Forensic Science				
16	Dr. C. F. Mulimani	Associate Prof	M.A., Ph.D	Criminology & Forensic Science. Ex- Criminal Tribe study.
17	Dr. J. L. Kalyan	Associate Prof.	M.A., Ph.D	Criminology & Forensic Science. Ex- Criminal Tribe study.
Department of Geography				
18	Dr. L. T. Nayak	Associate Prof.	M.A. M.Phil, Ph.D	Environmental & Regional Planning

19	Dr. S. S. Motebennur	Associate Prof.	M.A., Ph.D.	Agricultural Geography.
20	Dr. (Smt.) V. B. Saviramath	Associate Prof.	M.A., Ph.D.	Marketing Geography.
21	Shri. G. N. Kummur	Assistant Prof	M.A., M.Phil	Agricultural Geography.
Department of Geology				
22	Dr. S. C. Chougala	Associate Prof.	M.Sc., Ph.D	Hydrology and Environmental Geology
23	Dr. J. T. Gudagur	Associate Prof.	M.Sc., M.Phil., Ph.D	Hydrology and Environmental Geology/Medical Geology
24	Dr. S. Manjunath	Associate Prof.	M.Sc., Ph.D	Hydrology and Economic Geology
25	Shri. R. Y. Budihal	Associate Prof	M.Sc.,	
Department of Physics				
26	Dr. G. H. Malimath	Associate Prof.	M.Sc., Ph.D	Fluorescence Spectroscopy
27	Shri. M. R. Ranganath	Associate Prof.	M.Sc., M.Phil.	Polymer Physics
28	Dr. Blaise Lobo	Associate Prof.	M.Sc., Ph.D	Polymer Physics
29	Smt. Nirupama J.M.	Assistant Prof.	M.Sc., M.Phil., Ph.D.	Nuclear Physics
30	Smt. Geeta N. Chavan.	Assistant Prof.	M.Sc., M.Phil., Ph.D.	Nuclear Physics
31	Smt. Jyothi S.Doddamani.	Assistant Prof.	M.Sc., M.Phil.	Solid state Physics
32	Dr.(Smt). Reshma Nesaragi	Assistant Prof.	M.Sc., Ph.D	Solid state Physics
Department of Zoology				
33	Dr.(Smt.)A.S.Bellad	Associate Prof.	M.Sc., Ph.D	Endocrinology & Reproductive Physiology
34	Dr.(Smt.)M.S.Nayak	Associate Prof.	M.Sc. Ph.D	Endocrinology & Reproductive Physiology, Sericulture
35	Dr. Rajeshwari D. Sankal	Assistant Prof	M.Sc., Ph.D	Molecular Biology & Biotechnology
36	Dr. S.S. Mangalwade	Assistant Prof	M.Sc., NET	Reproductive Biology
37	Shri. Harsha Nilgund	Assistant Prof	M.Sc., M.Phil	Zoology
Department of Computer science				
38	Shri. Nagaraj S.	Assistant Prof.	M.C.A	Comp.Sc
39	Smt. Lalita Nayak	Assistant Prof	M.C.A	Comp.Sc
40	Smt.Ambika R.	Assistant Prof	M.C.A	Comp.Sc
41	Smt. Kalpana C. Dalawai	Assistant Prof	M.Sc., NET	Comp.Sc

42	Shri. Rajashekar V. Barker	Assistant Prof	M.Tech., NET	Comp.Sc
Department of Physical Education				
43	Shri.D.B.Govindappa	Associate Prof.	B.A., M.P.Ed.	Physical Education

6. Number of members of temporary teaching staff of the college at present:

	Female	Male	Total
Permanent teachers	16	27	43
Temporary teachers (Teaching assistants/ Guest Faculty)	35	49	84
Existing Vacancies			
Sl. No	Name of the Department	Sanctioned posts	Working Vacancies
1	Zoology	12	05
2	Geography	09	04
3	Geology	06	04
4	Physics	18	07
5	Chemistry	17	10
6	Botany	11	05
7	Criminology & Forensic Science.	06	02
8	BCA & B.Sc.(CS)	05	05
9	M.Sc.(Chemistry)	Nil	Nil
10	M.Sc.(Physics)	Nil	Nil
11	M.Sc.(Mathematics)	Nil	Nil

7. Number of members of non- teaching staff of the college at present:

	Female	Male	Total
Administrative	05	11	16
Technical staff	---	---	---

8. Has the college / department collaboration/ linkages with other (national/international) institutions?

Yes

No

INFRASTRUCTURE & LEARNING RESOURCES

9. List of innovations practiced in the college:

(Projects, internships, field training, and seminars)

- a. Lesson planning/Bridge course/remedial courses
- b. Mentoring
- c. Essay, Debate and Quiz competitions.
- d. Research Projects from students
- e. Active involvement of the faculties towards preparation of Study materials and Question bank.
- f. Good number of Special Lectures, Seminars, Symposia and conferences
- g. Group Discussions / Exhibitions / Workshops
- h. Role Plays / Wall paper
- i. Field Training Study tour and visits
- j. Active involvement of faculties in research projects and publication of research papers in reputed journals.
- k. Establishment of good research facility and sharing of knowledge through consultancy for the surrounding poor farmers.
- l. Regular Placements
- m. ICT based teaching
- n. MOU's

10. Students progression: % passing at college for the year 2019-20:

- A- B.Sc
B- BCA
C- B.Sc. (CS)
D- M.Sc. in Chemistry

A)- B.Sc

Year	Semester	Total No. of students appeared	No. of distinctions	No. of passing	No. of failed students
Nov - 2019	I	414	94	281 (67.87%)	133
	III	406	227	330(81.28%)	76
	V	334	129	297 (88.9%)	37
May - 2020	II	414	Promoted due to COVID		
	IV	406	Promoted due to COVID		
	VI	332	195	305(91.86%)	27

B) BCA

Year	Semester	Total No. of students appeared	No. of distinctions	No. of passing	No. of failed students
Nov - 2019	I	66	25	42	24
	III	59	31	53	06
	V	51	24	43	08
May - 2020	II	64	Promoted due to COVID		
	IV	59	Promoted due to COVID		
	VI	51	42	5	4

C) B.Sc.(Computer Science)

Year	Semester	Total No. of students appeared	No. of distinctions	No. of passing	No. of failed students
Nov - 2019	I	48	11	17	31
	III	48	16	34	14
	V	47	24	38	9
May - 2020	II	44	Promoted due to COVID		
	IV	46	Promoted due to COVID		
	VI	46	40	2	4

D) M.Sc.(Chemistry)

Year	Semester	Total No. of students appeared	No. of passing	No. of failed students
Dec-2019	I	39	21	18
	III	38	24	14
Sept-2020	II	39	Promoted due to COVID	
	IV	38	32	06

E) M.Sc.(Physics)

Year	Semester	Total No. of students appeared	No. of passing	No. of failed students
Dec-2019	I			
	III			
Sept-2020	II		Promoted due to COVID	
	IV			

F) M.Sc.(Mathematics)

Year	Semester	Total No. of students appeared	No. of passing	No. of failed students
Dec-2019	I	53	49	04
	III	52	45	07
Sept-2020	II	53	Promoted due to COVID	
	IV	49	48	01

11. Whether IT enabled teaching introduced?

Yes

No.

All departments and departmental libraries are equipped with computers, LCD projectors and internet facility.

12. Does the college have the following facilities?

- | | | | | |
|--------------------------------|-----|-------------------------------------|----|--------------------------|
| • Reprographic facility | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| • Computers, Audio & Video CDs | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| • Internet | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| • Any other (specify) | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

Museums in many departments

13. How does the college, ensures maintenance of its infrastructure?

- a. Funds by State Government (through University)
- b. Funds through fees.
- c. Funds through enhanced fees.
- d. Funds by U.G.C.
- e. Funds from Alumni.

14. How does the college, ensures optimum use of its infrastructure facility?

- ❖ Facilities are utilized to conduct Degree, P.G. & Ph.D. courses.
- ❖ Theory and Practical classes are engaged in the existing infrastructure from 7:50am to 6:30pm.
- ❖ The department libraries are kept open for the students from 7:50am to 6:30pm.
- ❖ The department museums are kept open for the students from 11:00am to 5:30pm.
- ❖ Medical facilities are extended to all students, teaching & non teaching staff.
- ❖ The existing class rooms are also made use to conduct various competitive examinations like UGC NET & SLET, UPSC, KPSC, IISC, Judiciary, LIC & other state & Central board examinations.
- ❖ Play Grounds are used by our students & also used by public.
- ❖ The college is also an evaluation centre of KUD.
 - ❖ District/State level Cultural (Dharwad Utsav) and sports meets are organized by govt. of Karnataka in the campu

RESEARCH, CONSULTANCY AND EXTENSION

15. Details of research students awarded with Ph.D.degree.

Name of the guide	Name of the student for Ph.D /M.Phil. /PD	Title of project/ thesis	Fulltime/ Part time& Fellowship / Scholarship etc.
Dr.(Smt)Mangala.S.Nayak (Zoology)	Smt. Sudha S. Patil Ph.D	“Studies on the Development of Gonads in the Ciehlid Fish, Tilapia Mossambicus”	Full Time FIP
	Mr. S. S. Mangalawede Ph.D	Studies on seasonal variations of physicochemical factors with zooplankton and fish diversity in two fresh water bodies of Dharwad Taluka	Part time
Dr. J.L.Kalyan (Criminology & Forensic Science)	Miss. Bhavana Desai Ph.D	Forensic examination and the admissibility of questioned documents as evidence in the court of law.	Full Time
	Mr. Subhaschandra Tulasigeri - Ph.D	Crime in the changing scenario of globalised society with a special reference to north Karnataka: A Challenges to the Police.	Full Time
	Mr. Tejukumar Ph.D	Criminological approach to human rights behind prison walls: A case study of Karnataka	Awarded
	Mr. S. S. Angadi Ph.D	An analytical study of socio, economic and educational factors and their impact on the prevention of child labour: A case study of Dharwad district, Karnataka	Awarded
Dr. (Smt.) Dori's Singh (Botany)	1 Kosthi Omkar Arun	Limnobotanical Studies on Three Perennial Tanks of Nippani Taluk,Belgaum District,Karnataka,India	BCWD Karnataka government fellowship – full time
	2.Keerthi Patil	Biochemical &Biological Activities of some Selected Cyanobacterial Specie & Their Applications.	URS fellowship Full time

	3.Chaitra Pandhari	Nutritional Composition, Microbiological & Toxicological Evaluation of Selected Nostoc Species.	Part time
	Ms. Pragathi Singh Ph.D	Diversity of subaerial algae from Sirsi Taluk, Uttara kannada, Karnataka.	Awarded
Dr. K. Kotresha (Botany)	1. Smt. Maheshwari Koti	Floristic Diverisity and Phytosociological Studies of Yadahalli Chinkara Wildlife Sanctuary, Bagalkot, Karnataka	Part time
	2. Sri. Vijayamahantes h Gobbi	Ethnobotanical Studies of Bagalkot District, Karnataka	Part time
	3. Smt. Mouna S.	Phytodiversity and Phytosociologicalstudies of Devarayanadurga and Bukkapatna Reserve Forests in Tumakuru District, Karnataka	Fulltime KSST Bangalore Fellowship
	4. Miss. Savita R.	Floristic Status and Its Utility in Raichuru District, Karnataka	Fulltime University Fellowship
	5. Smt. Naghashree G.	Documentation on Wild Edible Fruits of Tumakuru District, Karnataka	Part time
	6. Smt. M Siddeshwari	Flora of Koppal District, Karnataka	Part time Teachers fellow
	7. Sri. Ningaraj S. Mokanur	Floristic Studies in Angiosperms of Haveri District, Karnataka	Fulltime
Dr.C.G.Patil (Botany)	Mr. Shivanand S. Ph.D	Genomes studies in some Angio sperm parasites	Awarded
	Mr. Rajendra Pujar Ph.D	Genetic studies in wild and cultivated species of genus sesamum L (Pedaliaceae) using molecular markers.	Project fellow UGC
	Ms. Shweta Karaningannavar Ph.D (CO-Guide- Appl. Genetics)	DNA barcoding studies in different species of drosophila.	UPEF
	Ms. Sheetal Kamat Ph.D	Genetic and biochemical analysis of genus salacia L. (Celastraceae)	Awarded

	Mr. Koustub Nayak Ph.D	Marker assisted genotype analysis of different traits in different varieties of onion (<i>Allium cepa</i>) L. (Lilliaceae)	Full Time
Dr.K.P.Kolkar (Botany)	Ms. Suma Reddy Ph.D	Histochemical and tissue culture studies of reproductive structure in <i>aerides maculosum lindl</i> (Orchidaceae)	Full Time
	Smt. Nageena P.H. Reg. No. SC/2018-19/1043 Dt: 18.01.2019	“Histochemical studies on the Development of Male reproductive structures in some members of Rubiaceae”	Part time
	Mr. Lingaraj Ph.D	Hydrogeological and Geochemical studies with reference to pollution of surface and sub surface water due to Anthropogenic and Geogenic causes in Nandihal Halla Watershed of Manvi, Devadurga and Sindhanur Taluks of Raichur District, Karnataka State.	Full Time
	Mr. Umesh Jadiyappa Madolli Ph.D	Hydrogeological and Environmental Studies with reference to groundwater quality characterization of Dharma river Sub Basin of Hangal and Siggaon Taluks of Haveri District, Karnataka, State	Full Time
	Mr. Rizwan M. S. Ph.D	An Integrated Approach to Hydrogeological, Remote Sensing and Environmental Studies of Kodi Halla Watershed, Hosadurga Taluk, Chitradurga District, Karnataka State.	Full Time
	Ms. Pradnya Govekar Ph.D	Hydrogeological and Hydrogeochemical characters of surface and subsurface water of Hirehalla sub Basin of Badami Taluk, Bagalkote District, Karnataka	Full Time
	Mr. Raju Laxman Chavan Ph.D	Petrology, Geochemistry and Genesis of Banded Iron formations and associated	Full Time

		rocks in Kappatagudda Gadag District, Karnataka	
	Mr. G. S. Subbapurmath Ph.D	Structural Features in the Proterozoic Rocks at and around Murgod, Belagavi District, Karnataka	Full Time
Dr. Manjunath S. (Geology)	Mr. Raju Sukheye Ph.D	Petrography and geochemistry of proterozoic clastic sedimentary rocks around Naragund, Navalgund and Dhumwad, Northern Karnataka.	Awarded
	Mr. Nagalingaswami K. Vishwabrahman	Hydrogeological studies with special reference to fluoride in groundwater of Yadagiri taluk, Karnataka state.	Full Time
	Mr. Rakesh Patil	Hydrogeological analysis of Tattihalla basin using remote sensing and GIS techniques	Full Time
	Mr. Basavaraj Chikkasamshi	Integrated Hydrogeological Studies of Hiranyakeshi Water Shed, Belgaum District, Karnataka, India using Remote Sensing and GIS Techniques	Full Time
	Mr. Chandrashekar Kalyani	Hydrogeological studies in Shalamala sub basin, Karnataka	Full Time
	Mr. Swanand A. Ajgaonkar	Hydrogeological studies of Lingusugur taluk, Raichur District, Karnataka	Full Time
	Mr. Sujith Kulkarni	Integrated hydrological studies of Shorapur taluk, Yadgir districts, Karnataka.	Full Time
	Mr. Vinayak Lohar	Hydrogeological and hydrogeochemical Studies of Hirehalla Watershed Chikkodi and Gokak Area, Belagavi District, Karnataka Using Remote sensing and GIS techniques	Full Time
	Riyaz A.S	Hydrogeological studies of Raichur taluk, Karnataka using remote and GIS techniques.	

Dr.G.H.Malimath (Physics)	Lohit Naik Ph.D	Energy Transfer and Quenching studies in dyes and dye doped systems	Awarded
	Thippeswamy M.S.	Studies of Photophysical Properties of some organic compounds of optoelectronic and Biological interest	Part time
	Veeresh Hiremath	Synthesis and Characterisation of some rare earth doped ferrite nanoparticles for sensor applications	Part time
	Praveen	Energy transfer and Quenching Studies on some organic compounds of Biological and Optoelectronic interest.	Full time
Dr.Blaise Lobo (Physics)	Ms. Preeti B. H. Ph.D	Experimental study of polymeric composites using nuclear techniques and complementary methods	Awarded
	Shruti S. Devangamath	Experimental Study of Microstructure And Physical Properties of Hybrid Materials	Full time
	G. Veena	Experimental Investigation of The Physical Properties of Nanostructured Polymeric Materials	Full time RGNF
	Rajeshwari Mirji	Experimental Investigation of The Microstructures and Properties of Conducting Polymeric Blends Using Nuclear Techniques and Complementary Methods	Full time
	Mrs. Vijayashri Ashok Kandagal	Studies on Organic and Inorganic Materials using Positron Annihilation Spectroscopy and External Bremsstrahlung	Part Time
	Manjappa C. K.	Experimental and Computational Study of Radiation Shielding Materials	Full Time

Dr.S.M.Tuwar (Chemistry)	Mr. Umesh Devurshi	A study of kinetics and mechanisms of oxides of few bioactive drugs and their electrochemical behavior	Full time RGNF-UGC
	Ms. Seema Patil Ph.D	Kinetics and mechanism of oxidation of some important drugs and their electrochemical studies.	UPEF
	Ms. Rohini Hanabaratti Ph.D	A study on kinetics and mechanism of oxidation of some bioactive molecules and their electrochemical behaviour	UPEF
Dr.S.D.Dummawad (Chemistry)	Mr. Narayanachar Ph.D.	Physiochemical & biological studies on metal complexes of biologically active ligands.	Awarded
	Mr. Pulin Nath Ph.D.	Physiochemical studies on metal complexes of biologically active ligands	Submitted
Dr.O.Kotresh (Chemistry)	Veebhadrarayya S. N.		Awarded
	Mr. Sachin P. Ambekar Ph.D.	Synthetic studies on some hetrocycles and their pharmacological activities	Full time
	Mr. Veeresh Neelgundmath Ph.D	Synthesis of some hetrocyclic compounds and study of their biological activities.	UPEF
Dr.K.S.Katagi (Chemistry)	Ms. Smita Mane Ph.D.	Synthetic studies on some novel heterocyclic compounds and their pharmacological evaluation	Awarded
	Ms. Sneha B. Kulkarni Ph.D	Studies on non edible seed oils for bio-diesel and synthesis of novel heterocyclic compounds.	(Under VTU)
	Ms. Sangeeta D. Benni Ph.D.	Studies on non edible seed oils. A potential source for bio-diesel production	(VTU)
Dr.S.P.Masti (Chemistry)	Mr. Manjunathgouda M. Ph.D.	Preparation and evaluation of multifunctional properties of biodegradable polymer blend films	Full Time
	Shivayogi Narasagoudr		Submitted
Dr. R. G. Kalkhambkar	Hemanth Kumar		

Dr. Rajappa S. K.	Arjun G. Kalkhambkar	Investigation of electroactive compounds as corrosion inhibitors for mild steel in acid media	Part time & No Fellowship
	Manohar R. Rathod	Investigation of electroactive active components from plants extract and corrosion inhibition of mild steel	Full time & Fellowship
	Gurunath S. Janakunavar	Development of complexing agents for the corrosion mitigation of mild steel & zinc	Part time & No Fellowship
Dr. L.T.Nayak (Geography)	Mr. A. B. Pujar Ph.D.	The role of service centers in regional development of erstwhile BIJAPUR district, Karnataka _ A geographical approach.	Part time
	Mr. K. M. Hombal Ph.D.	Spatio temporal analysis of environmental impact of iron ore mining – A case study of Bellary district, Karnataka	Full time
	Mr. M. M. Kurbur Ph.D.	Impact of human activities on environment of Uttara Kannada District.	Full time
	Mr. B. R. Jarakunti Ph.D.	Environment, Urbanisation and growth of urban centres in Gadag district – A spatial analysis.	Full time
	Miss. K. L. Hegde Ph.D.	Spatial planning for socio-economic development of tribal communities in Uttara Kannada district, Karnataka.	Full time
	Mr. N. G. Shyagoti Ph.D.	Spatial organization of infrastructure facilities for rural development – A case study of Gadag district, Karnataka.	Full time
	Mr. G. B. Pawar	Spatial pattern and socio-economic structure of rural settlement – A case study of Dharwad district.	Full time
	Mr. Bheemappa D. A.	Assessment of regional disparities in north Karnataka – A spatial strategy for planning and sustainable development	Full time
Dr.V.B.Savirmath (Geography)	Rajaratna Dadugoudar	Environment and quality of life in Slum of Belgavi	Awarded

		city: A Geographical analysis	
	Mr. B. G. Madli Ph.D	Imbalanced sex ratio of Bidar and Udupi districts: A Comparative analysis	
	Mr. M. N. Kurahatti Ph.D	Patterns of women empowerment in Gadag district: A study in population geography	
	Mr. S. N. Satpute Ph.D	Agriculture Geography	
	Mr. R. V. Rayannavar Ph.D	Rural Settlement Geography	
	Chetan Patil	Environmental geography	
	Mr. S. G. Desai Ph.D		

16. Details of research projects (Ongoing)

Name of the Investigator	Name of project	Funding Agency	Amount Sanctioned (in Lakhs)
Dr. Manjunatha S.	Integrated Hydrogeological Studies of Lingasugur taluk, Raichur District, Karnataka	DST-SERB	23.1 Lakh
Dr. R. G. Kalkhambker	Synthesis of cumarin and quinoline derivatives as novel drug like molecules	DST	27.00
Dr. S. P. Masti	Physicochemical properties of ternary blend films for food packaging applications	DST-SERB	42 lakhs
Dr. K. Kotresha	Carbon Sequestration and Pictorial Documentation of Plants Diversity in Karnatak University Campus, Dharwad	KUD Ref: KU/PMEB/2021-22/59 Dated. 25-06-2021.	0.5

17. Major facilities available for research in the College:

The following major facilities have been developed, and are available in the college to facilitate research.

- a. Precision LCR meter, Digital balance, Accurate digital multimeter with computer interfacing, Sodium Iodide (Thallium) Scintillator Gamma-Ray spectrometer with 8k MCA, Portable Gamma Ray Spectrometer with 1k MCA, GM Counters, Digital Storage Oscilloscopes, Temperature Controlling unit, Microwave apparatus, Refractometer, Ultrasonic interferometer in **Physics department**.
 - b. UV-Visible spectrophotometer with Peltier cooled temperature controlling system Electro chemical work station, electrophoretic apparatus, Rota evaporator, Nephelo turbidity meter, Flame Photometer, Horizontal and vertical, deep freezer, Heating mantles, Polymerase Chain Reaction instruments in **chemistry department**.
 - c. Petrological microscopes, GPS, Resistivity meter, LCT, All types of maps, surveying instruments, 3-D models of land forms, Weather instruments in **Geology department**.
 - d. Digital camera, Stereo zoom microscopes, Bullet comparison microscope, Horizontal shaker, Culture rack, Refrigerators, Rotary shakers, Vortex Mixtures, Magnetic stirrers, Soxhlet apparatus, Laminar air flow, Auto clave, Thermal cycler, LAMINAR AIR FLOW. -20°C deep freezer, Spectrophotometer, Digital balance, Quartz double distillation unit, uv-Trans illuminator, DNA electrophoresis unit, Protein electrophoresis unit, Tissue culture incubation with Photoperiodic control, Incubators, Research micro scopes with halogen illumination, Table top Cold centrifuge with 30000-rpm at -20°C, Microfuge, Potentiometer etc. in Microtome and cryostat along with necessary glassware and chemicals in Botany and Zoology department. In addition, taxonomy sheets (herbarium sheets) of rare plants are available in botany museum, for taxonomy research.
- Internet facility throughout the campus.
 - Computers to all the departments.
 - Faculty members and research students have an access to use facility available in University Science Instrumentation Centre (USIC), KUD and it has major instrumental facilities like Liquid nitrogen plant, Atomic Absorption Spectrophotometer, Absorption and fluorescence spectrophotometer, spectrophotometer UV NMR, FTIR, Liquid Scintillation Counters, HPLC, GCMS and Cryostat.
 - The researchers can avail the facilities available in Genetic Diagnostic Centre, KUD.
 - The Central Workshop services can be also availed by the researchers from KUD.
 - The campus has herbal garden, medicinal plants park, cactus garden, Geology museum, Criminology museum, Zoology museum and Botany museum.
 - The college has promoted and encouraged research activities by providing facilities like Computer Systems, on-line E-journals, and Internet connectivity, INFONET, INFLIBNET, CD-ROMs which are available at Central Library, Karnatak University, Dharwad.

- The library has separate reference / periodical section with back volumes and current journals/dissertations/thesis for ready reference. All the books and journals are catalogued using computer programming. The library has Xeroxing and computer printing facilities.
- Sufficient hostel facility for boys and girls is made available.
- University research Financial assistance/ Fellowship is available to the research scholars.

18. Furnish the following :

Publications	National	International
Number of research papers	24	47
Number of Conferences attended	27	14
Number of books		
Awards and recognition for research	2	

19. Does the college provide any consultancy services?

Yes

No

If Yes

a) **List the broad areas of consultancy services provided and the beneficiaries.**

- **Geology department is involved in :**
 - Helping University, Hostels, farmers of nearby villages & Residents of Hubli-Dharwad to Locate bore well points.
 - Rain water harvesting for Dharwad citizens and nearby villagers.
 - Suggestions for Rock identification, its quality and also gem and mineral testing.(BENIFICIRIES: Ph.D. students and some land owners.
- **Forensic science department extends:**
 - Expert opinion for judiciary, university and police departments regarding the crimes.
- **Department of Zoology provides:**
 - Expert opinion in Fisheries, Toxicology and aquaculture procedures for villagers/ Fishermen..
 - Water quality maintenance and aquaculture.
- **Botany department is involved in:**
 - Helping Government and non government departments for Plant identification. Further, they are also helping the same organizations in environmental related issues.

b) **Finances generated through consultancy services : Nil.**

20. Tick the areas of extension activities of the college, if any.

- | | |
|---------------------------------|-------------------------------------|
| a. Community development | <input checked="" type="checkbox"/> |
| b. Health and hygiene awareness | <input checked="" type="checkbox"/> |
| c. Adult education. | <input checked="" type="checkbox"/> |
| d. AIDS awareness | <input checked="" type="checkbox"/> |
| e. Social work | <input checked="" type="checkbox"/> |
| f. Medical Camp | <input checked="" type="checkbox"/> |
| g. Blood donation camp. | <input checked="" type="checkbox"/> |
| h. Environment awareness. | <input checked="" type="checkbox"/> |
| i. Any other (briefly mention) | <input type="checkbox"/> |

21. If the college organizes extension activities give a brief note?

All the departments are actively involved in extension activities like awareness programmes, Rain water harvesting, Alternative energy sources, Cyber crime and its impact on youngsters, Injuries to sports personnel and remedies to overcome, Use of fertilizers and etc. are in progress.

ORGANIZATION AND GOVERNANCES

22. How often the teachers of the Department meet?

Once in a month.

23. Are the decisions taken in these meetings recorded and reviewed in the next meeting?

Yes.

24. Has the college Council been constituted? Yes.

If so, briefly describe its functioning.

STRUCTURE OF GOVERNING COUNCIL:

VICE-CHANCELLOR	: Chairman
SYNDICATE MEMBER	: Member
REGISTRAR	: Member
FINANCE OFFICER	: Member
RESIDENT ENGINEER	: Member
Senior most S.G.L.	: Member
Senior most S.S.L.	: Member
Senior most LECTURER	: Member
PRINCIPAL	: Member Secretary.

FUNCTIONING:

Governing Council meetings will be held twice in a year to review the academic and administrative progress/problems of the college and to find out the solutions to solve the same and also to take up new proposals on priority basis if any.

TEACHING:

25. How are students selected for admission?

- a) Through entrance tests
- b) Through academic record
- c) Through a combination of both

26. What are the significant innovations in teaching and learning introduced by the college in the last three years?

1. Regular internal theory and practical Tests.
2. Remedial classes to slow learners
3. Group Discussions.
4. Workshops/Exhibitions/seminars/conferences.
5. Role Plays.
6. Chemistry Court.
7. Special Lectures through Study circles and Science Association.
8. Wall paper publication through Vichar Kranthi

27. Any national and international linkages established for teaching?

If so, briefly mention.

1. The Indian Nuclear Society
2. The Indian Society of Criminology and Indian society of victimology.
3. All India Radio.
4. Infosys.

28. Any awards received for recognition of teaching?

Nil

29. Does the college have mechanism of student evaluation of teachers to improve the teaching and learning process?

Yes

No

30. Is counseling for students available? Yes.

If so, what are the tangible results?

1. Overcome examination phobia.
2. Personality development.
3. People skills
4. Goal card.
5. Students-teachers rapport.
6. Practical skills.

31. What are the measures taken by the college to ensure quality in teaching and research?

1. The staff members are deputed to participate in national/ international conferences, seminars, workshops.
2. The staff members are encouraged to do research and advised to seek financial assistance through major/minor research projects.
3. The staff members are encouraged to attend Orientation and Refresher courses.

32. How does the college strengthen the regular programmes?

1. Feedback from Teacher peer, Students, Parents & Employer.
2. Through internal quality assurance cell recommendations.
3. By arranging special lectures.
4. Through study tours.
5. Through upgrading the syllabi from time to time.
6. Interacting with college and university authorities.
7. Internal auditing.
8. Alumni meet.
9. By procuring latest equipments/journals/books
10. By deputing students to various activities like summer camps, debates, conferences, intercollegiate meets etc.
11. Teachers are encouraged to take-up UGC/CSIR/DST/BRNS minor and major research projects.
12. Regular participation of teachers in national and international conferences/symposiums.

33. Is there any alumni association?

Yes

SUGGESTIONS

34. What are your suggestions for better teaching and research?

1) Improvement in financial resources	i) Lab Development Fees. ii) Enhanced fees. iii) Through Alumni. iv) Acquiring more funds from funding agencies like UGC, CSIR, DST, VGST an etc..
2) Interaction with society and industry	i) Exhibition (academic). ii) Industrial visits & training through MOU. iii) Industry involvement in preparation of curriculum
3) Making college as a central part of the entire activity concerning social, cultural and economic aspects of the region.	i) Providing Platform for various socio-cultural activities.
4) Administrative reforms at college and university level	i) HRD training. ii) Technical training to office staff.

5) Any other suggestions to make the university education need based and relevant.	1)The global need based courses with applied nature are to be encouraged. 2) Independent departments of Maths, Statistics and languages are to be established in the same college
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35. Whether the recommendations/observations made by the previous AAA Committee implemented?

There were no particular recommendations/observations made in the previous AAA committee to be implemented.

36. What is the vision of the college for itself and the University by 2020?

VISION

JUST, EQUITABLE, TRANQUIL, HARMONIOUS, SOCIAL ORDER WITH SCIENTIFIC TEMPERAMENT.

MISSION

- To enhance student’s ability to make them special and valued thereby creating experiences so surprisingly positive and memorable.
- Providing variety of options for delivering dazzling science education to our students.
- To offer invigorating experiences in a way that builds rapport and create sustainable 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 little extra.
- Providing necessary infrastructure to generate a talented human resource pool, which will be useful to our society at large.
- To transform students in to sharp thinkers, writes, speakers and leaders in the professions of their choice.
- To install scientific temperament in younger generation.

DATE:

Signature of Person

Filling the form : _____

Name : **Dr.A.S.Bellad**

Designation : **PRINCIPAL**