

J.S.S. BANASHANKARI ARTS, COMMERCE AND SHANTIKUMAR GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD

Affiliated to Karnatak University, Dharwad

Accredited with 'A' Grade in last three cycles



Fourth Cycle NAAC Accreditation SELF STUDY REPORT (SSR)

CRITERION - I

1.3.2 (Q_nM)

Average percentage of courses that include experiential learning through project work/ field work/internship during last five years
2020-21



Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL, BENGALURU



J.S.S. BANASHANKARI ARTS, COMMERCE AND SHANTIKUMAR GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD

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2020-21

Course Code	Course	Subject	No. of Students
UG 01	B.A	Geography	67
PG 85	M.Sc	Physics	49
PG 75	M.Sc	Chemistry	60
PG 62	M.Com	Commerce	51
UG 15	B.Sc	Zoology	95
Total number of students			322

JSS BANASHANKARI ARTS, COMMERCE & SHANTIKUMAR GUBBI SCIENCE
COLLEGE DHARWAD-04


Department of Geography

REPORT ON PROJECT WORK-2020-21

It is compulsory to all the students to prepare a project work in group and submit to the department under the guidance of faculty as per the affiliated university syllabus. Urban The project carried out in this year 2020-21 is Waste Management-A Case Study of Hubli-Dharwad Twin Cities which through light on the problem of waste generated by different sources in the study area and its management.

One project is carried out by 61 students due to the pandemic period. In a short period it is completed by collecting the secondary data available digitally and without going much to collect for primary data. The priority was given to safety of students.




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Ref. No. JSSCD/

Date : 20/07/21

TO WHOMSOEVER IT MAY CONCERN

This is to certify that our students studying for the academic year 2020-2021 in B.A.VI Semester-Geography as an Optional subject are going to undertake the Project entitled '*Urban Waste Management – A Case Study of Hubli-Dharwad Twin Cities*' as a part of their dissertation work prescribed by the Karnatak University, Dharwad under the guidance of Dr. (Smt.) M.N. Kotyal, Dept. of Geography.

In view of this, our students have to collect the relevant data / information for their studies concerned. Hence, I would like to assure that the information will be kept confidential.

Further, I request you to kindly provide the necessary information to our students and oblige.


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KARNATAK UNIVERSITY, DHARWAD

Ref. No. No. KU/(Aca(S&T)/(MSP-015)/Geography/UG/PG/2013-14/ 807

Date: 11-05-2013

NOTIFICATION

Sub: Revision of Geography syllabus for UG course from the academic year 2013-14 & onwards reg.

- Ref:** 1) BOS in Geography (UG/PG) Res. No. 04, dt; 14.09.2012.
2) Science Faculty, Res.No.06 dt: 11.03.2013.
3) Academic Council Res.No.30 dt: 25-03-2013.
4) Hon'ble Vice-Chancellors order dt: 04.05-2013.

Adverting to the above, it is hereby informed to the Principals of all the constituent and affiliated Arts and Science Degree Colleges that the revised syllabus in Geography syllabus for UG course with effect from the academic year 2013-14 and onwards. The revised syllabus is enclosed herewith.

Hence, the contents of this notification may please be brought to the notice of the students and all concerned.

The concerned syllabus may be obtained through the Karnatak University, Web Site: www.kud.ac.in.

REGISTRAR

To,

1. The Chairman, BOS in Geography (UG & PG) P.G. Department of Studies in Geography, K.U. Dharwad.
2. Principals of all the constituent and affiliated Arts and Science Degree Colleges coming under the Jurisdiction of Karnatak University, Dharwad.

Copy F.W.cs to;

1. Dr. S.A. Patil, Dean Faculty of Science & Technology, PG. Dept. of Studies in Chemistry, K.U., Dharwad.
1. The Registrar (Evaluation), K.U. Dharwad.
1. The Chairman, PG. Dept. of Studies in Geography, K.U., Dharwad.
4. Dr. R.M. Vatnal, I/c. IT Director, Internet Section, Examination Section, K.U. Dharwad for information and with a request to put the said notification and its enclosures in the University website: www.kud.ac.in

Copy to:

1. P.S. to Vice Chancellor, K.U. Dharwad
2. S.A. to Registrar, K.U. Dharwad
3. S.A. to Registrar (Evaluation), K.U. Dharwad
4. O.S. Academic (PG/Crt) Section, K.U. Dharwad
5. O.S. Exam (Arts Faculty) Section, K.U. Dharwad
6. O.S. Exam (Science Faculty) Section, K.U. Dharwad
7. O.S. Exam (PG), Section, K.U. Dharwad
8. O.S. Exam (Confl) Section, K.U. Dharwad
9. O.S. Exam (QP) Section, K.U. Dharwad
10. O.S. Exam (GAD/Time Table) Section, K.U. Dharwad

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Karnataka University Dharwad

Revised Syllabus for B.A. & B.Sc. of Geography With effect from 2013-14 onwards.

Rules & Regulations

Introduction: Introduction of the semester for undergraduate studies is a welcome a decision by the authorities taking into consideration the present –day needs and necessities. The non object of the system is to know the modern development and its relevance in day-to-day life of the people .An effort is made to know in details about the subject and structure of course keeps the teacher and the taught busy throughout the semester. It helps the students to prepare well for the examination, as there are two semester in academic year.

Geography B.A/ B.Sc.Semester

To be eligible to offer 'GEOGRAPHY' as one of the optional subjects U.G level, a student must complete pre-university or equivalent course.

Scheme of instruction

- The subject 'GEOGRAPHY' for this scheme has to be taught by a master degree holder in geography only
- Geography at undergraduate level consists of six semester with eight the papers and eight practical papers. In I,II,III and IV semester there will be one theory paper and one practical paper each. In the V and VI semester there will be two theory papers and two practical each.
- Each theory paper will have a minimum of '60' hours of teaching each practical paper will have a minimum of '40' hours of teaching in each semester course.
- The duration of each semester being '18' weeks excluding Examinations Period.
- Practical's are to be conducted in batches. Each batch consists of '15' student with one teachers, and between '16-27' students with two teachers. In case, if student are below '15' is also considered as one batch with one teacher.
- Each batch(depends on the number of students) must be supervised by one teachers covering instructions supervision of practical's and correction of records.


ATTENDENCE : In each semester 75% of attendance is compulsory.

Scheme of examinations

Theory Examination: 1. The Theory course shall carry '100' Marks of which '80' Marks are added for the theory examination and '20' Marks for internal assessment.

2. The examination will be conducted at the end of each semester

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Each theory course will have a question paper of '3' hours duration and the maximum marks of

Each theory question paper will have '5' questions, each carrying '16' marks ('8+8' marks). Each question has a choice of attempting either 'A' or 'B' fully.

Practical Examination: 1. Each practical course will have an examination of '4' hours duration with maximum marks of '50' of which '40' marks are allotted for the practical examination and '10' marks for internal assessment by conducting an examination in practical taught up to that period.

2. The practical examination is to be conducted in batches with not more than '15' candidates per batch.

3. There will be one internal examiner one external examiner to conduct the practical examination for each batch.

4. Scientific calculators and mobile phones are not allowed in the examination

5. Minimum marks to pass in each paper both theory and a practical is 40%

6. Each candidate shall complete the laboratory course prescribed by the University entering all the experiments/exercises in the Laboratory Journal which shall be produced at the time of practical examination along with a certificate signed both by the course teacher and the Head of the Department of Geography of the concerned college to the effect that he/she has completed the prescribed course in a satisfactory manner.



Name of Papers in B.A./B.Sc. Geography

	Semester	Name of Subject	Marks	+IA	Total
B.A./B.Sc. Geography	1 st Sem	Physical Geography	80	+20	100
		Practical: Paper I Scales	40	+10	50
B.A./B.Sc. Geography	2 nd Sem	Climatology and Oceanography	80	+20	100
		Practical: Paper II Maps and Diagrams	40	+10	50
B.A./B.Sc. Geography	3 rd Sem	Regional Geography of Karnataka	80	+20	100
		Practical: Paper III introduction to Weather Maps and Instruments.	40	+10	50
B.A./B.Sc. Geography	4 th Sem	Geography of India	80	+20	100
		Practical: Paper IV Interpretation of Topographical Maps	40	+10	50
B.A./B.Sc. Geography	5 th Sem	Evolution of Geographical Thought	80	+20	100
		Human and Economic Geography of the World	80	+20	100
	Practical: Paper V Map Projections	40	+10	50	
		Practical: Paper VI Statistical Diagrams and Statistic	40	+10	50
	6 th Sem	Environmental Geography	80	+20	100
		Agriculture and Rural Geography	80	+20	100
		Practical: Paper VII Basic Computer Application and GIS			
Practical: Paper VIII Field Study and Project Report	40	+10	50		

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B.A/B.Sci VI SEMESTER, THEORY PAPER-VII - ENVIRONMENTAL GEOGRAPHY (80 Marks)

Unit 1. Definition, Scope and Content of Environment Geography, and Ecosystem.

Unit 2. Man and Environment: Inter dependence between man and Environment Man's ^{impact} on vegetation, biotic life, Climate, Soil and Water.

Unit 3. Biodiversity: Types of biodiversity, uses of biodiversity, biodiversity at the local, regional and global level.

Unit 4. ^{S V}Conservation: Levels of destruction of Biodiversity, causes and Consequences to biodiversity, Endangered and Endemic species of India.

Unit 5. Environment Pollution: Types of Pollution, Causes and effects of pollution, Measures to Control Pollution, Global Warming and Depletion of Ozone layer.

Recommended Books :

1. Savindra Singh :Environmental Geography
2. Saxena H.M :Environmental Geography
3. Asha B.N : Man and his Environment.
4. S.S.Nanjannavar : Parisara Bhogol Shastra
5. S.S.Nanjannavar ;Vayu Malinaya .
6. M.B.Goudar : Parisara Bhoga Shastra.



B.A/B.Sci VI SEMESTER THEORY PAPER: VIII AGRICULTURE AND RURAL GEOGRAPHY (80 Marks)

Unit 1. Meaning, nature and scope of agricultural and Rural Settlement geography.

Unit 2. Types of Farming :Crop concentration and Delineation of crop combination regions. subsistence, plantation, commercial and mixed farming.

Unit 3. Agricultural planning and policies in India, Agro-climatic regions of India, Green revolution and its issues.

Unit 4. Nature and characteristics of rural settlements. Types, Patterns, and Morphology of rural settlements, site and situation, layout-internal and external.

Unit 5. Rural De-Population, Rural Urban Continuum Rural Planning and NREGA: Objectives, Importance and Functions of NREGA.

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Recommended Books.

1. Husain, M. (1996): Systematic Agricultural Geography, Rawat Publications, Jaipur.
2. Mishra, R. P. (1967): Diffusion of Agricultural Innovations, University of Mysore, Mysore.
3. Mohammad, A.(1978): Studies in Agricultural Geography, Rajesh Publications, New Delhi
4. Morgan, W. B. and Norton.
5. Mohammad Safi.(2006) Agriculture Geography.
6. L.T.Nayak : Vasati Bhogol Shastra

PRACTICAL PAPER VII: Computer Application And GIS

1. Basic of Computer Applications: Operation of M.S. Word M.S. Excel and Power Point. ✓
2. Graphical Represent of data. ✓
3. GIS; Importance, Components (Hardware, Software, Infrastructure, Brain ware). ✓

PRACTICAL PAPER VIII: FIELD WORK AND PROJECT REPORT

Field Trip and Report Writing: The Problem is to be identified with the District; the field work has to conduct and prepare a report and to be submitted to the Department before the commencement of Practical Examination.



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15/9/12

CHAIRMAN & BOS
P.G. DEPT. OF GEOGRAPHY
KANNADK UNIVERSITY
DHARWAD-580 003

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ವಿದ್ಯಾರಣ್ಯ ಶಿಲಾ, ವಾಣಿಜ್ಯ ಮತ್ತು
ಶಾಂತಿಕುಮಾರ ಗುಬ್ಬಿ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ
ವಿದ್ಯಾಗಿರಿ, ಧಾರವಾಡ-580 004.



**BANASHANKARI ARTS, COMMERCE AND
SHANTIKUMAR GUBBI SCIENCE COLLEGE,
Vidyagiri, Dharwad-580 004.**

Ph.: (0836) 2468478, Fax : (0836) 2462200
E-mail : principaljsscollegedwd@gmail.com

ವ್ಯಾಕ್ ಸಂಸ್ಥೆಗಿಂದ 'A' ಗ್ರೇಡ್ ಮತ್ತು ಸಂಸ್ಥೆಯಿಂದ
ಯು.ಜಿ.ಸಿ. ಯಿಂದ 'CPE' ಪದವಿ

Reaccredited at the 'A' level by NAAC
'College with Potential for Excellence' recognition by UGC

Ref. No. JSSCD/

Date : 05-08-2021

As per the mandatory requirement prescribed by
Karnatak University, Dharwad 67 students of B.A.VI
Semester have done projects during the year 2020-21.

The details of the projects are enclosed.

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VIDYAGIRI DHARWAD-04

DEPARTMENT OF GEOGRAPHY

List of Students participated in project

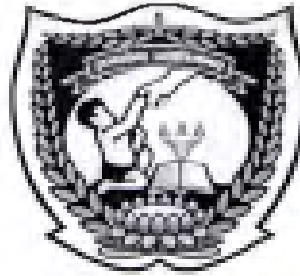
Topic: 'URBAN WASTE MANAGEMENT'- A CASE STUDY OF HUBLI-DHARWAD TWIN CITIES
2020-21

Sl No.	REG No.	Name of the Student	Sl No.	REG No.	Name of the Student
1	18A12201	ABHSHEK PATIL	35	18A12280	RAHUL CHAVAN
2	18A12202	AJEYKUMAR PUJAR	36	18A12281	RAHUL MADIWALAR
3	18A12204	AKSHATA GUDDADEVARMATH	37	18A12282	RAJ BAKSHI
4	18A12205	AKSHAYKUMAR MADIWALAR	38	18A12283	RAJGURU PATIL
5	18A12207	ANILKUMAR	39	18A12284	RAJAKUMAR CHIKKUMBI
6	18A12209	ANNAPURNA UPPAR	40	18A12285	RAKESH RABAKAVI
7	18A12210	ANWAR	41	18A12288	RAVI HANJE
8	18A12211	ASHA S	42	18A12292	ROJA GUTTE
9	18A12212	ASHWATH BOMMANAVAR	43	18A12296	SAGAR HIREMATH
10	18A12218	BHEEMAPPA SHYADALAGERI	44	18A12299	SANGEETA RAYAKOPPA
11	18A12220	CHE TAN NAVALOOR	45	18A12301	SANTOSH
12	18A12221	CHAITRA HOOLIMATH	46	18A12302	SHARANAPPA
13	18A12222	DARSHAN KHOT	47	18A12306	SHIVALEELA HADAPAD
14	18A12226	DRAKSHAYANI KARANI	48	18A12307	SHIVANAND HUKKERI
15	18A12227	ERA NAIK	49	18A12308	SHIVANAND
16	18A12228	GANESH	50	18A12309	SHIVANAND CHOUGALA
17	18A12234	IRESH KALMATH	51	18A12310	SHIVASWAMY R N
18	18A12236	K. LAKKHAN NAIK	52	18A12313	SHRISHAIL
19	18A12238	KARTHIKNAIK K L	53	18A12316	SIDDAPPA ADIN
20	18A12243	KIRANA YASHAVANTA AEDE	54	18A12320	SOUJANYA GHONASAGI
21	18A12246	LAXMAN	55	18A12321	SOUMYA
22	18A12247	LAXMI PUJAR	56	18A12323	SUBHASH KURUBAR
23	18A12248	LAXMI HIREKUMBI	57	18A12324	SUDHA BHUSARADDI
24	18A12249	M. GOVARDHAN NAYAK	58	18A12325	SUDHA UPPAR
25	18A12251	MAHADEV NEGINAL	59	18A12327	SUNEEL DEEPALI
26	18A12252	MANJUNATH GOUDAR	60	18A12330	SUSHMA WALIKAR
27	18A12254	MANJUNATH NAVALOOR	61	18A12339	VINAYAKA
28	18A12255	MANOJ JAMBURI	62	18A12340	VINITHA Y J
29	18A12261	NAVEEN HARA KUNI	63	18A12341	VISHALAKSHI RADDER
30	18A12262	NIJAGUNASHIVAYOGI	64	18A12342	VISHWANATH KAPASI
31	18A12267	POORNIMA KADAMMANAVR	65	18A12343	VITTHAL PUJAR
32	18A12268	PRAJWAL GONDHALE	66	18A12344	ZUHA AMREEN
33	18A12270	PRAKASH HADAPAD	67	18A12345	JYOTI NAGASAMUDRA
34	18A12275	PRAVEEN HARA KUNI			



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**DEPARTMENT OF GEOGRAPHY
BA VI Semester Survey/Project Report
2020-21**

**URBAN WASTE MANAGEMENT- A CASE STUDY OF
HUBLI-DHARWAD TWIN CITIES**

**SUBMITTED TO
THE DEPARTMENT OF GEOGRAPHY,
AS A PARTIAL FULFILLMENT OF THE BA VI SEMESTER
PRACTICAL EXAMINATION
2020-21**

**Project Guide
Dr Smt Mahadevi Kotyal
MA, PhD
Assistant Professor & Head
Department of Geography
JSS BANASHANKARI ARTS, COMMERCE AND
S K GUBBI SCIENCE COLLEGE VIDYAGIRI DHARWAD-04**


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Department of Geography,
Gallery



Hubli- Dharwad Municipal Corporation Office in Dharwad.



Students Infront of HDMC



Dustbins: Green for wet and Blue for dry waste

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B.S.S. Basashankar Arts, Commerce &
Science College, Dharwad



JSS Banashankari Arts, Commerce and Shantikumar Gubbi Science College, Vidyagiri,
Dharwad-580004


PG Department of Physics


Report on Project Work done by M. Sc. IV semester Students

2020 - 21

Project work on some topic is compulsory in IV semester of M. Sc. Physics course. 49 students of M. Sc. Physics IV sem were involved in project work. Students are divided into 13 groups under the supervision of 6 faculty. 11 groups – 34 students worked in the condensed matter physics field and 4 groups – 15 students worked in the nuclear and particle physics field. During the course, students worked in the department laboratory. Some characterized synthesized materials are carried out in the department laboratory. Also students took help of university scientific instrumentation centre of Karnatak University. At the semester end students groups composed all their respective work and prepared report under the guidance of assigned project supervisor. Examination for the same was conducted by Karnatak University, Dharwad, Karnataka as per university rules and regulations. One copy of each project report is submitted to Karnatak University, Dharwad and one copy to the college library.

Date:12-10-2021


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HOD
HOD PG Physics
JSS Banashankari Arts, Commerce &
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Vidyagiri, Dharwad-580 004

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KARNATAK UNIVERSITY, DHARWAD

DEPARTMENT OF PHYSICS



Syllabus based on Choice Based Credit System (CBCS) (2018 Scheme)

For

M. Sc. Course in PHYSICS

With effect from the year 2018 for the I & II Semesters and from the year 2019 for III & IV Semesters onwards

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Dharwad - 581 104

Karnatak University, Dharwad
Department of Physics and Electronics



Preamble:

The Department of Physics, one of the oldest and major Departments at Karnatak University, was founded in the year 1953. Eminent spectroscopist Dr. N.R.Tawade was the first Head of the Department and its faculty included very distinguished scientists. The Department, at present, has 11 faculty members, 03 teaching assistants and 56 research scholars. The Department has had a tradition of strong teaching program and quality research output. As a result, it has been nationally recognized for excellence in teaching and research programs with major grants from UGC under Special Assistance Program (SAP) and DST under FIST program and for the individual faculty members from UGC, DST, BRNS and IUAC. Under the UGC-SAP Program, the Department is recognized as Centre of Advanced Study at Level-II with a grant of Rs 2.63 cr and the Department is associated with UGC's the Center with Potential for Excellence in a Particular Area(CPEPA) involving other Science Departments as well. While most of the passed-out students have become school and college teachers, allied job holders, a small but significant number of the students have excelled as scientists (some are Bhatnagar awardees), university faculty and vice-chancellors, and likewise some are successful in foreign countries.

The Course Details:

The Department offers M.Sc. and M.Phil Courses and Ph.D. Program in Physics. The M.Sc. Program is a two-year Course, spread over four semesters, each of which is sixteen weeks duration. The Course comprises compulsory and specialization Courses and Open Elective Courses. A student admitted to the Course leading to a M. Sc. Degree should necessarily study the compulsory and specialization Courses in Physics, offered in the Department as well as the Open Elective Courses (OEC), in different subject(s), offered by other Departments. The Student has the freedom to choose two Courses during the study under prescribed OECs.

There are 6 compulsory and 8 specialization theory Courses, 7 practical Courses and one Project. Of these, 10 theory Courses and 4 practical Courses are common to all the students studying in I- and II-Semesters. The remaining 4 theory Courses, 3 practical Courses and the Project are specialization-based Courses offered in the III- and IV- semesters. Specialization Courses are offered in the following subjects:

- 1) Atomic & Molecular Physics
- 2) Condensed Matter Physics
- 3) Electronics
- 4) Nuclear & Particle Physics.

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There are two Elective Courses (under OEC), one in II-Semester and one in III-Semester, offered by the Department of Physics for the students of other science Departments.

Credits:

A student shall register for 24 credits in I-, II- and III-semester and 26 in IV-Semester and is required to successfully complete 98 credits for the M.Sc. Course in Physics. The credits for each of the theory (compulsory, specialization and elective) courses, and for each of the practical (compulsory and specialization) courses shall be 4. For the semesters I to IV, there shall be 40 credits for the compulsory theory courses and in each of the III- and IV- semesters, there shall be 8 credits for the specialization theory courses. There shall be 4 credits each for the open elective courses(OEC). In the I-, II- and III- semesters, there are two practical courses, each of which carries 4 credits and in the IV semester, however, while one practical course 4 credits, the project carries 6 credits (see Table 1). Students are allotted to specializations in the third semester on the basis of their order of preference

The student shall opt for an elective course (OEC) at the time of admission.

1. M.Sc. Degree Course:

1.1 Duration of the Course: The M.Sc. Course is of two years duration spread over four semesters each of sixteen weeks duration.

1.2 Eligibility for Admission: B.Sc. graduates of this University or of any other University recognized as equivalent there-to with Physics and Mathematics as optional subjects are eligible. The candidate should have obtained at least 45% of marks in optional subjects as well as in aggregate. Relaxation in respect of SC/ST/Cat-I etc. will be applicable as per prevailing rules of the University.

1.3 Intake : Total intake to the M.Sc Course in Physics under the jurisdiction of Karnatak University is 259. The intake to the Course at the Department of Physics at Karnatak University, Dharwad, is 69. The Course is also offered at Karnatak Science College (intake, 35), JSS College, Dharwad(intake 60 (30 under KUD quota + 30 under Management quota), Sri Siddeshwar First Grade Govt College, Naragund (15 all under KUD quota), JT Science College, Gadag(intake 30 (15 under KUD quota + 15 under Management quota) and KSS College, Gadag (intake 50 (25 under KUD quota + 25 under Management quota) The Karnatak University reserves the right to vary intake as deemed necessary including admission rules, fee structures and roster as per notification from time to time.

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2. **Attendance:** Every student must have at least 75% attendance in each of the Courses (theory, and practicals) in each of the semesters. Shortage of attendance will be dealt with as per the University rules from time to time.

3. **Medium of Instruction:** The medium of Instruction shall be English.

4. **Scheme of Instructions :**

4.1 In each semester there will be FOUR Theory Courses and TWO Practical Courses.

4.2 Each theory course is of FOUR hours of lectures per week. Each practical course is of FOUR contact hours per week. These include seminars, tutorials and discussion classes. Internal Assessment (IA) shall be conducted during the semesters. Each theory and practical Course shall carry 100 marks, out of which 25 marks are for internal assessment (IA). The various components of IA for 25 marks are as follows: Attendance-3 marks, written test(s)/seminars/assignments (minimum two)-22 marks. Total maximum marks are 600 per I-, II- and III-semester and 650 marks in IV-Semester.

4.3 **Project:** Every student has to compulsorily take a Project course. This is in the IV-semester. The Project may be a theoretical or an experimental work in the respective specialization subject. More than one student may be required to work on an assigned project. Project course carries 150 marks, of which 25 is for IA, 50 marks for viva-voce examination with presentation of the work and 75 marks for the evaluation of dissertation, at the semester-end examination.

5. **Scheme of Evaluation:**

Evaluation of each of the courses will have two components: the first being internal assessment (IA) and the second being the semester-end examinations.

For theory and practical courses having a credit award of 4, the total maximum marks shall be 100. Out of the total of 100, 25 marks shall be earmarked for the IA and the remaining 75 marks for the semester-end examination.

For the project, carrying 6 credits, the total maximum marks shall be 150. Out of 150, 25 marks shall be earmarked for the IA and the remaining 125 marks is shared between viva-voce carrying 50 marks and evaluation of dissertation carrying 75 marks for the semester-end examination.

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Shantikumar Gubbi Science College,
DHARWAD-580 004



5.1 Examination:

Examinations will be conducted at the end of the each semester as per the University regulations governing PG Courses.

The semester-end examination in each theory course will have a question paper for 3 hours duration and will carry a maximum of 75 marks. The IA tests will be conducted during the semester. The mode of conducting the tests may involve a common time-table for all the courses in that semester.

Each practical course will have an examination, generally, of four hours duration and will carry a maximum of 75 marks in the semester-end exam. A two-hour duration IA for 25 marks is conducted at the end of the semester.

Project: A project dissertation should be submitted by each student at the end of IV-semester to become eligible for the examination. The evaluation of the project dissertation carries a maximum of 75 marks. The viva-voce examination carries a maximum of 50 marks and will be in the form of presentation by the student. During this examination, one external examiner and one project supervisor or along with internal examiner will be involved in the evaluation. IA for 25 maximum marks is conducted during the mid semester, either through a test or a seminar. In the case of seminar, an internal examiner along with the project supervisor will be involved in the evaluation.

5.2 Question Paper Pattern: Each theory Course paper is organized into I, II, III and IV Units. A question paper comprises two questions as internal choice from each of these four Units, giving a total of eight questions and, a ninth question has four sub-questions drawn from each of the Units with an option to answer any three. The four sub-questions may be in the form of a problem / short answer question / question for explanation of a concept. Each question carries 15 marks, giving a total of 75 marks for the question paper. Below is the summary of the Scheme:

5.3 Distribution of Marks :

a) Theory Course:	Max Marks
Semester-end Examination	75
Internal assessment(IA)	25
Total:	<u>100</u>
b) Practical Course:	Max Marks
Semester-end Examination	75 (inclusive of 5 marks for journal and 10 marks for viva-voce)
Internal assessment (IA)	25
Total:	<u>100</u>
c) Project:	
Semester-end Examination (Project Dissertation - 75; Viva-voce - 50)	125
Internal assessment (IA)	25
Total:	<u>150</u>



6. Maximum Period for the completion of the M.Sc. Degree programme :

There shall be carry-over from first to fourth semester. The maximum number of years required by a student to complete the degree is as specified by the University from time to time.

7. Rules and Award of Degree :

7.1 The Minimum for a pass in each course shall be 40% (semester-end exam and IA put together). Further, the candidate shall obtain at least 40% of the marks in the semester-end exam and 50% in aggregate when all Courses of four semesters are put together. There shall be no separate minimum for IA.

7.2 **Award of Degree:** Students after successfully completing all the Courses prescribed for all the four semesters by scoring minimum of 50% in aggregate will become eligible for the award of M.Sc. Degree in Physics.

7.3 Results: Marks and Grading

Results of candidates are declared based on the marks obtained and grades earned and classes are awarded as per the University rules.

8. Co-Curricular and Extra Curricular activities :

8.1 Co-curricular Activities :

Seminars, tutorials, problem solving sessions, discussion classes will be conducted periodically. However, these activities do not carry any marks or credits.

8.2 Computer Laboratory facilities:

Students are provided with computer facilities for their curricular as well as for their co-curricular studies and internet browsing.

8.3 Library Facilities:

The Department has a library with research journals and text/reference books. Students are allowed to borrow on regular basis.

8.4 Students Counseling :

Students will be assigned to teachers for counseling regarding their academic and other matters.

8.5 Epsilon club :

An association called ϵ (epsilon) club exists in the Department for the all round development of the students. Lectures by students, staff and special lectures by eminent scientists are arranged under the auspices of this club.

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Extra-Curricular activities such as sports, literary and cultural activities are also conducted under the auspices of this club.

8.6 Special Encouragement:

Students interested in research activities are encouraged by providing them with an opportunity to work in the research laboratories and USIC under the guidance of the faculty members.

M.Sc. Course in Physics Choice Based Credit System (CBCS) (2018 Scheme) Teaching and Evaluation Scheme

Sem. No	Course code	Title of the Paper	Credit	Teaching Hrs/week	Duration of Exams in hours for Theory/ Practical	Mar M		
						Semester -End Exam	IA	Total
Compulsory Courses								
I	PH CT1.1	Mathematical Methods in Physical Sciences	4	4	3	75	25	100
	PH CT1.2	Classical Mechanics	4	4	3	75	25	100
	PH CT1.3	Electronics (General)	4	4	3	75	25	100
	PH CT1.4	Condensed Matter Physics (General)	4	4	3	75	25	100
	PH CP1.5	Practical- I Electronics and Condensed Matter Physics (General)	4	4		4	75	100
	PH CP1.6	Practical- II Atomic & Molecular and Nuclear & Particle Physics (General)	4	4	4	75	25	100
Compulsory Courses								
II	PH CT2.1	Quantum Mechanics-I	4	4	3	75	25	100
	PH CT2.2	Atomic & Molecular Physics (General)	4	4	3	75	25	100
	PH CT2.3	Nuclear & Particle Physics (General)	4	4	3	75	25	100
	PH ET2.4	Open Elective Course: Modern Physics	4	4	3	75	25	100
	PH CP2.5	Practical-III Electronics and Condensed Matter Physics (General)	4	4	4	75	25	100

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	PH CP2.6	Practical- IV Atomic & Molecular and Nuclear & Particle Physics (General)						
III	Compulsory Course:							
	PH CT3.1	Quantum Mechanics-II	4	4	3	75	25	100
	Specialization Courses:							
	PH ST3.2	Electronics-I/ Condensed Matter Physics-I/ Atomic & Molecular Physics-I/ Nuclear & Particle Physics-I	4	4	3	75	25	100
	PH ST3.3	Electronics-II/ Condensed Matter Physics-II/ Atomic & Molecular Physics-II/ Nuclear & Particle Physics-II	4	4	3	75	25	100
	PH ET3.4	Open Elective Course: a. Instrumental Methods OR b. Physics of Nanomaterials	4	4	3	75	25	100
	PH SP3.5	Practical Electronics-I/ Condensed Matter Physics-I/ Atomic & Molecular Physics-I/ Nuclear & Particle Physics-I	4	4	4	75	25	100
PH SP3.6	Practical Electronics-II/ Condensed Matter Physics-II/ Atomic & Molecular Physics-II/ Nuclear & Particle Physics-II	4	4	4	75	25	100	
IV	Compulsory Courses:							
	PH CT4.1	Classical Electrodynamics	4	4	3	75	25	100

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DHARIWAD-580 994.

PH CT4.2	Statistical and Thermal Physics	4	4	3	75	25	100
Specialization Courses:							
PH ST4.3	Electronics-III/ Condensed Matter Physics-III/ Atomic & Molecular Physics-III/ Nuclear & Particle Physics-III	4	4	3	75	25	100
PH ST4.4	Electronics-IV/ Condensed Matter Physics-IV/ Atomic & Molecular Physics-IV/ Nuclear & Particle Physics-IV	4	4	3	75	25	100
PH SP4.5	Practical Electronics-III/ Condensed Matter Physics-III/ Atomic & Molecular Physics-III/ Nuclear & Particle Physics-III	4	4	4	75	25	100
PHSPJ4.6	Project: Electronics/ Condensed Matter Physics/ Atomic & Molecular Physics/ Nuclear & Particle Physics	6	6	4	75 (Dissertation) + 50(Viva- voce)	25	150

Total No. of Credits, 98

Total No. of Maximum Marks,
2450

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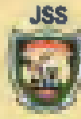
U.S.B. Benashankan Arts - Commerce &
Shashankumar Gubbi Science College,
D.HARWAD-589 601



ಜಿ.ಎಸ್.ಎಸ್. ಬನಶಂಕರಿ ಕಲಾ, ವಾಣಿಜ್ಯ ಮತ್ತು
ಎಸ್.ಕೆ. ಗುಬ್ಬಿ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ

ವಿದ್ಯಾಗಿರಿ, ಧಾರವಾಡ-580004.

Recognized "A" Grade by NAAC



Founder
R. S. Mukkerjee

JSS BANASHANKARI ARTS, COMMERCE &
S.K. GUBBI SCIENCE COLLEGE,
VIDYAGIRI, DHARWAD-580 004.

College with Potential Excellence by UGC

President
His Holiness Sri. Vishveshwara
Swamiji of Sri Pejawar Math, Udipi

Chairman
Pulya Dr. D. Veerendra Hegde
Dharmasthala

Secretary
Dr. N. Vajrakumar
Dharwad

Dr. Ajith Prasad
Co-ordinator
P.G. Section



Ref. No. JSS/

Date: 11/10/2021

As per the mandatory requirement
prescribed by Karnatak University, Dharwad 49
students of M.Sc. (Physics/~~Chemistry~~) have carried
out project work during the year 2020-21.

The details of the projects are enclosed

ASU
Principal/Co-ordinator
Principal / Co-Ordinator
J.S.S. Banashankari Arts, Commerce
& S. K. Gubbi Science College
Vidyagiri, Dharwad- 580004

		Academic Year 2020-21 Term May-Aug 2021 (Examinations: Sept-Oct 2021)		
Sl. No	Name of the Students	Project title	Student Reg No.	Project Supervisors
1	Nikita Sonwalkar Pooja Kulkarni Prema Chikkopp	Study of thermal, optical and structural properties of CdSe doped PMMA Polymer.	19S16110,111,114	Ms. Pavitra Naik
2	Pushpa Hiremath Rahul Kabade	Structure, performance and application of BiFeO3 Nanoparticles.	19S16116,117	Ms. Pavitra Naik
3	Sneha Tayamnavar Soumya Yalavatti	Synthesis, characterization and application of graphene oxide.	19S16126,127	Ms. Pavitra Naik
4	Sushmita S Sushmitha R Tejashwini Cholachagudda	Synthesis of CuO Nanoparticles Using Leaf Extracts and its comparison study.	19S16130,131,133	Ms. Pavitra Naik
5	Devappa Hammagi Nikita Yanni Rakesh B	Analysis of the mass attenuation coefficient in Metals and Alloys.	19S16098,109,112,119	Ms.Divyshree Badiger
6	Aishwarya D Aishwarya K Ashwitha Jain Vaibhav shetty	Analysis of the Attenuation parameters in dry wood samples of two different regions of Karnataka.	19S16090,091,094,134	Ms.Divyshree Badiger
7	Preeti H Srushti D Vinod Bhatt	Study of Saturation thickness of copper targets in Compton Backscattering.	19S16113,128,137,	Mr.Mallikarjun Hoogar
8	Priya A.C Rajani k Surendra H Swathi Hegde	Investigation of K-40 radioactivity in Organic and Inorganic Fertilizers.	19S16115,118,129,132	Mr.Mallikarjun Hoogar
9	Kiran H Mallikarjun G Megha H Megha T Naveen B	Solar desalination using carbon based nano materials	19S16104,105,106,107,108	Dr. Badesab killedar



[Signature]
PRINCIPAL

Banashankari Arts, Commerce & Science College,
Dharmapur, Gubbi, Karnataka
DHARWAD-580 004.

10	Basavraj P G Akashata Keerthi K	Graphene: synthesis, characterization and application.	19S16096,99,103	Ms. Divya Prabhu
11	Hema m Kavtha B Vasuraju K	Synthesis and characterization of PbS thin films and nanoparticles.	19S16101,102,135	Ms. Divya Prabhu
12	Vijayalaxmi p Soumya B Suvarna K	Band gap tuning and fluorescence properties of pbs with applications.	19S16136,177,178	Ms. Divya Prabhu
13	Savitha R.S Seema k Shilpa Y Shivaraj Akki Shweta Amte	Synthesis methods and application study of polypyrol.	19S16120,121,122, 124,125	Dr. Jyoti Akki
14	Arun G Asadullha M	Characterization of based FET.	19S16092,93	Dr. Jyoti Akki
15	Aminabegum P Abhishek K B.Sajidha	Doping effect on characters of polyvinyl alcohol.	19S16088,089,095	Dr. Jyoti Akki



J. S. S.

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Shantikumar Gubbi Science College,
DHARWAD-520 004

**JSS BANASHANKARI ARTS, COMMERCE AND S.K GUBBI
SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-580001**



PG DEPARTMENT OF PHYSICS

A PROJECT REPORT ON

"CELLULOSE BASED FIELD EFFECT TRANSISTOR"

The report submitted to Karnataka University, Dharwad

for the Award of Degree of

MASTER OF SCIENCE

IN

PHYSICS

By

Mr ARUN GUDUR

Reg. No :19S16092

Mr ASADULLASHA MAKANDAR

Reg. No :19S16093

Project Supervisor

Dr. JYOTI AKKI

PG DEPARTMENT OF PHYSICS

JSS COLLEGE, DHARWAD

2020-2021

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JSS Banashankari
PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
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DHARWAD



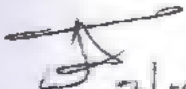
**JSS BANASHANKARI ARTS, COMMERCE AND S.K GUBBI
SCIENCE COLLEGE, DHARWAD-580001**

PG DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the project work entitled "**CELLULOSE BASED FIELD EFFECT TRANSISTOR**" is a sincere work carried out by ARUN GUDUR (19S16092) and ASADULLASHA MAKANDAR (19S16093) of M.Sc. IV Sem Physics, at PG Department of Physics, JSS Banashankari Arts, Commerce and S.K. Gubbi Science College, Vidyagiri, Dharwad-580001 during the year 2020-2021. This project is submitted in partial fulfilment of the requirement for the award of degree of M.Sc. Physics by Karnatak University, Dharwad.


7/10/2021

Project Guide and Head of the Department

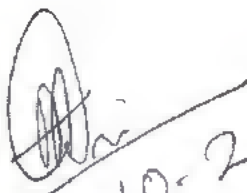
PG Dept. of Physics

JSS College, Dharwad

Date Of Examination:

Signature Of Examiner:

1.


09-10-21



Principal/Co-Ordinator

JSS College

Dharwad

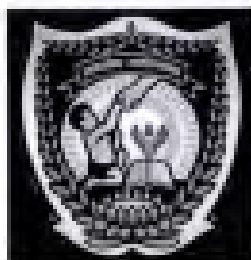

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2. J.S.S. Banashankari Arts, Commerce &
Shantikumar, Gubbi Science College,
DHARWAD-580001



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**JSS BANASHANKARI ARTS, COMMERCE AND S. K. GUBBI SCIENCE COLLEGE,
VIDYAGIRI, DHARWAD-580001
PG DEPARTMENT OF PHYSICS**




**A PROJECT REPORT ON
STUDY OF THERMAL, OPTICAL, STRUCTURAL AND MORPHOLOGICAL
COMPOSITION OF CdSe DOPED PMMA POLYMER**
Dissertation submitted to Karnataka University, Dharwad for the
Award of Degree of

*Master of Science
IN
PHYSICS
By*

- | | |
|---------------------|-------------------|
| 1. NIKITA SONWALKAR | Reg. No: 19S16110 |
| 2. POOJA KULKARNI | Reg.No: 19S16111 |
| 3. PREMA CHIKKOPPA | Reg.No: 19S16114 |

Project Supervisor
MISS. PAVITRA NAIK
PG DEPARTMENT OF PHYSICS
JSS COLLEGE, DHARWAD
2020-2021

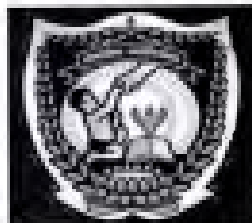

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Shantikumar Gubbi Science College,
DHARWAD-580004



JSS BANASHANKARI ARTS, COMMERCE AND S. K. GUBBI SCIENCE

COLLEGE, VIDYAGIRI, DHARWAD-580001

PG DEPARTMENT OF PHYSICS



Certificate

This is to certify that the project work entitled "STUDY OF THERMAL, OPTICAL, STRUCTURAL AND MORPHOLOGICAL COMPOSITION OF CdSe DOPED PMMA POLYMER" is a sincere work carried out by Nikita Sonwalkar, Pooja Kulkarni And Prema Chikkoppa of M.Sc. IV Sem Physics, at PG Department of Physics, JSS Banashankari Arts, Commerce and S. K. Gubbi Science College, Vidyagiri, Dharwad-580001 during the year 2020-2021. This project is submitted in partial fulfillment of the requirement for the award of degree of M. Sc. Physics by Karnatak University, Dharwad.

Prema Chikkoppa
Project Guide
PG Dept. of Physics
JSS College
Dharwad Dharwad

J. 08/10/2021
Head of the Department
PG Dept. of Physics
JSS College

AS
Principal/Coordinator
JSS College
Dharwad

DATE: 08/10/2021
EXAMINERS:

1.

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08-10-21
AS

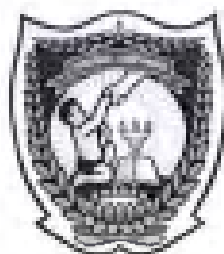
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DHARWAD-580004



**JSS BANASHANKARI ARTS, COMMERCE AND S.K GUBBI
SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-580001**



PG DEPARTMENT OF PHYSICS

A PROJECT REPORT ON

**“BAND GAP TUNING AND FLUORESCENCE
PROPERTIES OF LEAD SULPHIDE (PbS)”**

Dissertation submitted to Karnatak University, Dharwad

for the Award of Degree of

MASTER OF SCIENCE IN PHYSICS

By

Vijayalaxmi Patil Reg.no 19S16136

Soumya P B Reg.no 19S16177

Suvarna Kokati Reg.no 19S16178

Project Supervisor

Ms. Divya Prabhu

Department of Physics,

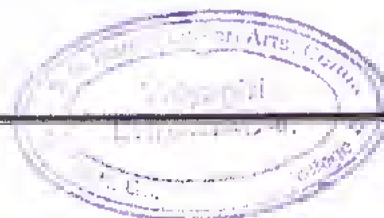
JSS College, Vidyagiri,

Dharwad 2020-2021

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Dharwad-580001




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SCIENCE COLLEGE, DHARWAD-580001**




PG DEPARTMENT OF PHYSICS

CERTIFICATE


This is to certify that the project work entitled "**BAND GAP TUNING AND FLUORESCENCE PROPERTIES OF LEAD SULPHIDE (PbS)**" is a sincere work carried out by Vijayalaxmi patil (19S16136), Soumya P B (19S16177), Suvarna kokati (19S16178), of M.Sc Physics IV Sem, PG Department of Physics, JSS Banashankari Arts, Commerce and S.K.Gubbi Science College, Vidyagiri, Dharwad-580 001 during the year 2020-2021. This project is submitted in partial fulfilment of the requirement for the award of degree of M.Sc Physics by Karnatak University, Dharwad.


Project Guide


PG Dept. of Physics
JSS College, Dharwad


Head of the Department

PG Dept. of Physics
JSS College, Dharwad

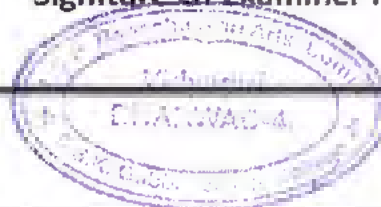

Principal/Coordinator

JSS College
Dharwad


PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Date Of Examination: College
DHARWAD-580 001

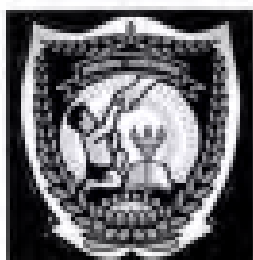

08-10-21

Signature Of Examiner :



**JSS BANASHANKARI ARTS, COMMERCE AND S. K. GUBBI SCIENCE
COLLEGE, VIDYAGIRI, DHARWAD-580001**

PG DEPARTMENT OF PHYSICS



A PROJECT REPORT ON

**STRUCTURE, PERFORMANCE AND APPLICATION OF BiFe_2O_3 (BFO)
NANOPARTICLES**

**Dissertation submitted to Karnataka University, Dharwad for the
Award of Degree of**

Master of Science

IN PHYSICS

By

Mr. RAHUL KABADE

Reg No :19S16117

Ms. PUSHPA HIREMATH

Reg No : 19S16116

Guided by,

Miss. PAVITRA NAIK

PG DEPARTMENT OF PHYSICS

JSS COLLEGE, DHARWAD

2020-2021

J. Hiremath

PRINCIPAL

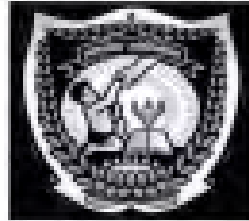
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DHARWAD-580004.**

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JSS BANASHANKARI ARTS, COMMERCE AND S. K. GUBBI SCIENCE
COLLEGE, VIDYAGIRI, DHARWAD-580001

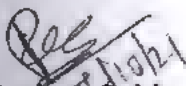
PG DEPARTMENT OF PHYSICS



Certificate

This is to certify that the project work entitled "STRUCTURE,
PERFORMANCE AND APPLICATION OF BiFe_2O_3 (BFO) NANOPARTICLES"

is a sincere work carried out by **Ms.PUSHPA HIREMATH (19S16116) AND
Mr.RAHUL KABADE (19S16117)** of M.Sc. IV Sem Physics, at PG Department of
Physics, JSS Banashankari Arts, Commerce and S. K. Gubbi Science College,
Vidyagiri, Dharwad-580001 during the year 2020-21. This project is submitted in
partial fulfillment of the requirement for the award of degree of M. Sc. Physics by
Karnatak University, Dharwad.


Project Guide

PG Dept. of Physics

JSS College

Dharwad


Head of the Department

PG Dept. of Physics

JSS College

Dharwad


Principal/Coordinator

JSS College

Dharwad

DATE: 07/10/2021

EXAMINERS:

1.


07-10-21

2.

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DHARWAD-580004



**JSS BANASHANKARI ARTS, COMMERCE AND S.K GUBBI
SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-580001**



PG DEPARTMENT OF PHYSICS

A PROJECT REPORT ON

**“SOLAR DESALINATION USING CARBON BASED
NANOMATERIALS”**

Dissertation submitted to Karnatak University, Dharwad

for the Award of Degree of

MASTER OF SCIENCE IN

PHYSICS

By

Kirankumar Huggi	Reg.no	19S16104
Mallikarjun S Goudar	Reg.no	19S16105
Megha Hugar	Reg.no	19S16106
Megha Tungal	Reg.no	19S16107
Naveen Badiger	Reg.no	19S16108

Project Supervisor

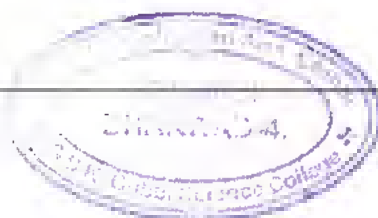
DR.BADESAB KILLEDAR

DEPARTMENT OF PHYSICS JSS COLLEGE, DHARWAD

2020-2021

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Sivantikumar Gubbi Science College,
DHARWAD-580001



**JSS BANASHANKARI ARTS, COMMERCE AND S.K GUBBI
SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-580001**



PG DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project work entitled "**SOLAR DESALINATION USING CARBON BASED NANOMATERIALS**" is a sincere work carried out by Kirankumar Huggi(19S16104), Mallikarjun S G(19S16105), Megha Hugar(19S16106), Megha Tungal(19S16107), Naveen Badiger(19S16108) of M.Sc IV Sem Physics, at PG Department of Physics, JSS Banashankari Arts, Commerce and S.K. Gubbi Science College, Vidyagiri, Dharwad-580001 during the year 2020-2021. This project is submitted in partial fulfillment of the requirement for the award of degree of M.Sc Physics by Karnatak University, Dharwad.

Badesab Killedar

Project Guide

PG Dept. of Physics

JSS College, Dharwad

7/10/2021

Jyoti akki

Head of the Department

PG Dept. of Physics

JSS College, Dharwad

Dr. Ajith Prasad

Principal/Coordinator

JSS College

Dharwad

Date Of Examination :

Signature Of Examiner :

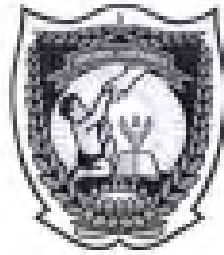
08-10-21

390

J.S.S. Banashankari Arts, Commerce and S.K. Gubbi Science College,
Dharwad-580001



**JSS BANASHANKARI ARTS, COMMERCE AND S.K
GUBBI SCIENCE COLLEGE, VIDYAGIRI,**



DHARWAD-580001

PG DEPARTMENT OF PHYSICS

A PROJECT REPORT ON

**“SYNTHESIS AND CHARACTERIZATION OF LEAD
SULFIDE THIN FILM AND NANOPARTICLES”**

Dissertation submitted to Karnatak University, Dharwad

for the Award of Degree of

MASTER OF SCIENCE IN PHYSICS

By

Hema Mali Reg.no 19S16101

Kavita S B Reg.no 19S16102

Vasu Raju Koulapure Reg.no 19S16135

Project Supervisor

Ms. Divya Prabhu

Department of Physics,

JSS College, Vidyagiri,

Dharwad 2020-2021

PRINCIPAL

**J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,**

DHARWAD-580004.



JSS BANASHANKARI ARTS, COMMERCE AND S.K GUBBI
SCIENCE COLLEGE, DHARWAD-580001



PG DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project work entitled **"SYNTHESIS AND CHARACTERIZATION OF LEAD SULFIDE THIN FILM AND NANOPARTICLES"** is a sincere work carried out by Hema Mali(19S16101), Kavita S B(19S16102), Vasu Raju Koulapure(19S16135), of M.Sc Physics IV Sem, PG Department of Physics, JSS Banashankari Arts, Commerce and S.K.Gubbi Science College, Vidyagiri, Dharwad-580 001 during the year 2020-2021. This project is submitted in partial fulfilment of the requirement for the award of degree of M.Sc Physics by Karnatak University, Dharwad.


4/10/2021

Project Guide
PG Dept. of Physics
JSS College, Dharwad



Head of the Department
PG Dept. of Physics
JSS College, Dharwad



Principal/Coordinator
JSS College
Dharwad


PRINCIPAL

Date Of Examination:
J.S.S. Banashankari Arts, Commerce &
Science College,
Dharwad-580001

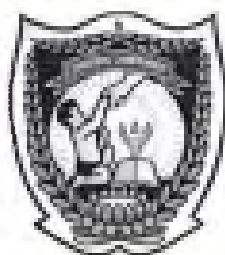

07-10-21

Signature Of Examiner :

392



**JSS BANASHANKARI ARTS, COMMERCE AND S.K GUBBI
SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-580001**



PG DEPARTMENT OF PHYSICS

A PROJECT REPORT ON

**“SYNTHESIS AND CHARACTERIZATION OF
GRAPHENE”**

Dissertation submitted to Karnatak University, Dharwad

for the Award of Degree of

MASTER OF SCIENCE IN PHYSICS

By

Basavaraj Pujar

Reg.no 19S16096

G Akshata

Reg.no 19S16099

Keerti C Kengar

Reg.no 19S16103

Project Supervisor

Ms. Divya Prabhu

Department of Physics,

JSS College, Vidyagiri,

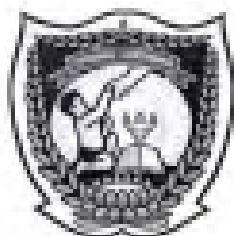
Dharwad 2020-2021

PRINCIPAL

**J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004**




JSS BANASHANKARI ARTS, COMMERCE AND S.K GUBBI
SCIENCE COLLEGE, DHARWAD-580001



PG DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project work entitled "**SYNTHESIS AND CHARACTERIZATION OF GRAPHENE**" is a sincere work carried out by Basavaraj Pujar(19S16096), G.Akshata(19S16099), Keerti C Kengar(19S16103), of M.Sc Physics IV Sem, PG Department of Physics, JSS Banashankari Arts, Commerce and S.K.Gubbi Science College, Vidyagiri, Dharwad-580 001 during the year 2020-2021. This project is submitted in partial fulfilment of the requirement for the award of degree of M.Sc Physics by Karnatak University, Dharwad.


05/10/2021

Project Guide

PG Dept. of Physics

JSS College, Dharwad



Head of the Department

PG Dept. of Physics

JSS College, Dharwad




Principal/Coordinator


JSS College

Dharwad

Date Of Examination


PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Sri. K. Kumar Gubbi Science College,
DHARWAD-580 004

Signature Of Examiner :


09/10-21

394

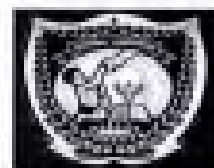


**JSS BANASHANKARI ARTS, COMMERCE AND S.K.GUBBI
SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-580004
PG DEPARTMENT OF PHYSICS**



'A' Grade

NAAC Accredited



'A' Grade

NAAC Accredited

**PROJECT REPORT ON
"LITHIUM SALT DOPED PVA FILMS SYNTHESIS AND
CHARCATERIZATION"**

A DISSERTATION SUBMITTED TO THE KARNATAK UNIVERSITY, DHARWAD

IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF

MASTER OF SCIENCE

IN

Physics

BY

Ms. AAMINA BEGUM P

Reg. No: 19S16088

Mr. ABHISHEK G KALAS

Reg. No: 19S16089

Ms. B SAJIDAH

Reg. No: 19S16095

PROJECT GUIDE

Dr. Jyoti Akki M.Sc., Ph.D

Head of Department

PG Department of Physics

JSS COLLEGE, DHARWAD-04

Jyoti Akki
PRINCIPAL

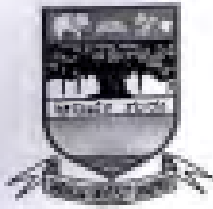
395
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,

2020-2021



KARNATAK UNIVERSITY

J.S.S BANASHANKARI ARTS, COMMERCE & S.K.GUBBI SCIENCE
COLLEGE, DHARWAD



'A' Grade
NAAC Accredited



'A' Grade
NAAC Accredited

CERTIFICATE

This is to certify that Ms. AAMINA BEGUM P, Mr. ABHISHEK G KALAS and Ms. B SAJIDAH has successfully carried out the dissertation work entitled "LITHIUM SALT DOPED PVA FILMS SYNTHESIS AND CHARACTERIZATION" at Post Graduate Department of Studies in Physics, J.S.S College, Dharwad. The project report is being submitted in partial fulfillment for the award of Master of Science in Physics.

Project Guide

Head of Department

PG Dept of Physics

JSS College Dharwad

DATE: 07-10-21

EXAMINERS: 1.

396

07-10-21

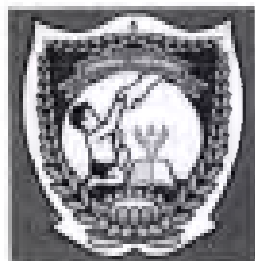
2.

PRINCIPAL/CORDINATOR

JSS College Dharwad

PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004.

**JSS BANASHANKARI ARTS, COMMERCE AND S. K. GUBBI SCIENCE COLLEGE,
VIDYAGIRI, DHARWAD-580001
PG DEPARTMENT OF PHYSICS**



**A PROJECT REPORT ON
SYNTHESIS ,CHARACTERIZATION AND APPLICATIONS OF
GRAPHENE OXIDE**

**Dissertation submitted to Karnataka University, Dharwad for the
Award of Degree of
Master of Science
IN
*PHYSICS***

By

SOUMYA G YALAVATTI

Reg .no: 19S16127

SNEHA TAYAMMANAVAR

Reg.no: 19S16126

Project Supervisor

PAVITRA NAIK

PG DEPARTMENT OF PHYSICS

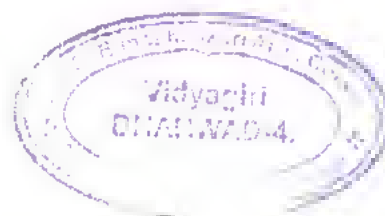
JSS COLLEGE, DHARWAD

2020-21

P. N. N.
PRINCIPAL

J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580004.

397





**JSS BANASHANKARI ARTS, COMMERCE AND S. K. GUBBI SCIENCE
COLLEGE, VIDYAGIRI, DHARWAD-580001
PG DEPARTMENT OF PHYSICS**



Certificate

This is to certify that the project work entitled "SYNTHESIS, CHARACTERIZATION AND APPLICATIONS OF GRAPHENE OXIDE" is a sincere work carried out Soumya G Yalavatti, Sneha Tayammanavar of M.Sc. IV Sem Physics, at PG Department of Physics, JSS Banashankari Arts, Commerce and S. K. Gubbi Science College, Vidyagiri, Dharwad-580001 during the year 2020-21. This project is submitted in partial fulfillment of the requirement for the award of degree of M. Sc. Physics by Karnatak University, Dharwad.



Project Guide
PG Dept. of Physics
JSS College
Dharwad


Head of the Department
PG Dept. of Physics
JSS College
Dharwad

Principal/Coordinator
JSS College
Dharwad

DATE: 9/10/2021
EXAMINERS:

1.


9-10-21

2.

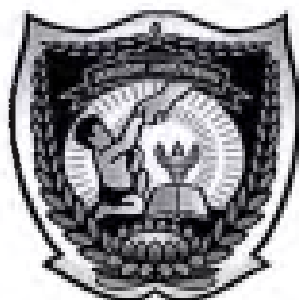

PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580004



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**J.S.S. BANASHANKARI ARTS, COMMERCE AND S.K. GUBBI
SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-580004,
KARNATAKA.**



**A Project Report On
"A STUDY:SYNTHESIS,CHARACTERIZATION
AND APPLICATION OF POLYPYRROLE"**

Dissertation submitted to Karnatak University, Dharwad for the

Award of degree of

Master of Science in Physics

Submitted by


Ms.SAVITA R SIDRAMASWAMIMATHA	Reg.No. 19S16120
Ms.SEEMA G KOTUR	Reg.No. 19S16121
Ms.SHILPA B YARABANDI	Reg.No. 19S16122
Mr.SHIVARAJ M AKKI	Reg.No. 19S16124
Ms.SHWETA S AMATE	Reg.No. 19S16125

Project supervisor:

Dr.JYOTI AKKI

PG Department Of Physics JSS College,
Dharwad

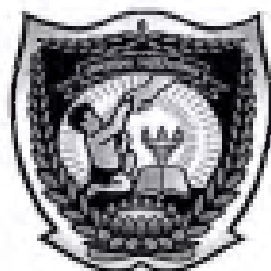
2020-2021


PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
S.K. Gubbi Science College,
Dharwad-580004



**J.S.S. BANASHANKARI ARTS, COMMERCE AND S.K. GUBBI
SCIENCE COLLEGE, VIDYAGIRI, DHARWAD-580004,
KARNATAKA.**

PG DEPARTMENT OF PHYSICS 2020-21



CERTIFICATE

This is to certify that the project work entitled "Synthesis And Characterization Of polypyrrole" is a sincere work carried out by **Ms.Savita.R.Sidramaswamimatha (19S16120), Ms.Seema.G.Kotur (19S16121), Ms.Shilpa.B. Yarabandi (19S16122), Mr.Shivaraj.M.Akki (19S16124), Ms.Shweta.S.Amate (19S16125)** of M.Sc IV sem Physics, at PG Department of Physics, JSS Banashanakari Arts, Commerce and S. K. Gubbi Science College, Vidyagiri, Dharwad -580004 during the year 2020-21. This project is submitted in partial fulfilment of the requirement for the award of degree of M.Sc. Physics by Karnatak University, Dharwad.

7/10/2021
Project Guide & HOD
PG Dept. of physics PG
JSS College
Dharwad

M
Principal/Co-Ordinator
JSS College
Dharwad

EXAMINERS:

1)

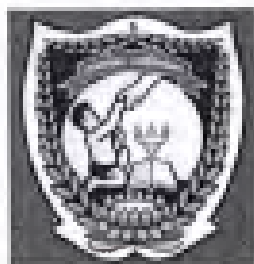
Shantikumar
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580004
9.10.21

2)



600

**JSS BANASHANKARI ARTS, COMMERCE AND S. K. GUBBI SCIENCE
COLLEGE, VIDYAGIRI, DHARWAD-580001
PG DEPARTMENT OF PHYSICS**



**A PROJECT REPORT ON
SYNTHESIS OF CuO NANOPARTICLES USING LEAF EXTRACTS
AND ITS COMPARISION STUDY**

Dissertation submitted to Karnataka University, Dharwad for the

Award of Degree of

***Master of Science
IN
PHYSICS***

By

- 1. SUSHMITA SIDDATAGIMATH**
- 2. SUSMITHA REDDY**
- 3. TEJASHWINI CHOLACHAGUDD**

Reg No:19S16130

Reg.No: 19S16131

Reg.No: 19S16133

Guided by,

**PAVITRA . NAIK
PG DEPARTMENT OF PHYSICS
JSS COLLEGE, DHARWAD
2020-21**

PRINCIPAL

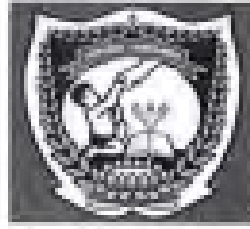
**J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 001**



JSS BANASHANKARI ARTS, COMMERCE AND S. K. GUBBI SCIENCE


COLLEGE, VIDYAGIRI, DHARWAD-580001

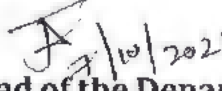
PG DEPARTMENT OF PHYSICS

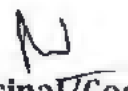


Certificate

This is to certify that the project work entitled "SYNTHESIS OF CuO NANOPARTICLES USING LEAF EXTRACTS AND ITS COMPARISON STUDY" is a sincere work carried out by **Sushmita siddatagimath, Susmitha reddy, Tejashwini cholachagudd** of M.Sc. IV Sem Physics, at PG Department of Physics, JSS Banashankari Arts, Commerce and S. K. Gubbi Science College, Vidyagiri, Dharwad-580001 during the year 2020-21. This project is submitted in partial fulfillment of the requirement for the award of degree of M. Sc. Physics by Karnatak University, Dharwad.


Project Guide
PG Dept. of Physics
JSS College
Dharwad




Head of the Department
PG Dept. of Physics
JSS College
Dharwad


Principal/Coordinator
JSS College
Dharwad

DATE: 9/10/2021

EXAMINERS:

1.



PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580001

2.



402

J.S.S BANASHANKARI ARTS, COMMERCE & SHANTIKUMAR GUBBI SCIENCE COLLEGE, VIDYAGIRI,
DHARWAD-580004

P.G. DEPARTMENT OF CHEMISTRY

PROJECT WORK REPORT: 2020-21

Project work by M.Sc IV semester General chemistry students is a scientific investigation carried out by students by various experimental procedures, through schemes & various methodologies. Project work is distributed among all faculties by various branches of General chemistry namely Organic chemistry, Inorganic chemistry & physical chemistry. In organic chemistry section students carried out the experiments on Synthesis of Pharmacologically active compounds namely Schiff bases acting as anticancer agents, synthesis of Dyes, various Heterocycles like Thiadiazoles, Oxadiazoles & Imidazothiadiazoles, coumarin derivatives. Students can take up project either in Industry or in department. In the precious five years so many students have undergone internship in industries like BMM ISPAT LTD. By the study on Sampling and analysis of ores, & in HLL LIFE CARE LTD., KMF DHARWAD. In Inorganic chemistry section students carryout the project work on various Metal complexes by designing the suitable ligands as active agents. In physical chemistry work is done on the Nanochemistry by designing various nanoparticles & alo on other physical chemistry aspects. All students after carrying out synthesis spectral characterization must be done for the final compounds such as FTIR, $^1\text{H-NMR}$, $^{13}\text{C-NMR}$, Mass spectral studies, X-ray, SEM & TEM depending on the nature of project work being carried out. Students subject their synthesized compounds for Pharmacological Evaluation studies in Biotechnology or Microbiology labs for their Biological Activity studies to know the potential of their molecules to various microorganisms such as antifungal, antimicrobial, antibacterial, anticancer, DNA cleavage & DNA binding studies.

In the year 2020-21 – 60 students have completed their project work in the P.G. Department of Chemistry.



PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004



Dr.NAVEEN.B
HOD, PG CHEMISTRY

HOD PG Chemistry
JSS Banashankari Arts, Commerce
& S.K. Gubbi Science College
Vidyagiri, Dharwad-580 004





FOURTH SEMESTER

Description of Papers	Credits	No. of Hrs/ week Theory/ Practical	Duration of exam. in Hrs Theory/ Practical	Internal Assessment Marks Theory/ Practical	Marks at the exams.	Total Marks
A. Core Subjects						
Inorganic Chemistry						
CHGT-4.1: Inorganic Chemistry	4	4	3	25	75	100
CHGT-4.2: Organic Chemistry	4	4	3	25	75	100
CHGT-4.3: Physical Chemistry	4	4	3	25	75	100
CHGP-4.4: Project Work* Inorganic Chemistry/Organic Chemistry/Physical Chemistry	6	4	8	25	125**	150
Practical						
CHG(Pr)-4.5: Lab Course in Inorganic Chemistry	2	4	4	10	40	50
CHG(Pr)-4.6: Lab Course in Organic Chemistry	2	4	4	10	40	50
CHG(Pr)-4.7: Lab Course in Physical Chemistry	2	4	4	10	40	50
Total	24	28	21	130	395	600

** Project Evaluation:

Dissertation - 75 Marks

Presentation/ - 50 Marks

Viva-Voce

S. M. D. S.
PRINCIPAL
J.S.S. Banashankari Arts, Commerce & Shantikrishna Gauri Science College
Dharwad-4

200

ಜೆ.ಎಸ್.ಎಸ್. ಜನಶಂಕರಿ ಕಲಾ, ವಾಣಿಜ್ಯ ಮತ್ತು
ವಿಕ. ಕೆ.ಗುಬ್ಬಿ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ

ವಿದ್ಯಾಗಿರಿ, ಧಾರವಾಡ-580 004.
Re-accredited 'A' Grade by NAAC



Founder
Late. R. S. Hukkerikar

JSS BANASHANKARI ARTS, COMMERCE &
S.K. GUBBI SCIENCE COLLEGE

VIDYAGIRI, DHARWAD-580 004
College with Potential Excellence by UGC

President :
H.H Sri Vishwaprasanna Theertha Swamiji
Sri Pejawar Mutt, Udupi

Chairman :
Dr. D. Veerendra Heggade
Dharmasthala

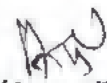
Secretary :
Dr. N. Vajrakumar
Dharwad

Dr. Ajith Prasad
Co-ordinator
P.Q. Section

Ref No. JSS/
Date

As per the mandatory requirement
prescribed by Karnatak University, Dharwad 60
students of M.Sc. (Physics/Chemistry) have carried
out project work during the year 2020-21.

The details of the projects are enclosed


Principal/Co-ordinator

Principal / Co-Ordinator
J.S.S. Banashankari Arts, Commerce
& S. K. Gubbi Science College
Vidyagiri, Dharwad- 580004



405



PROJECT ALLOTMENT (2020-21)

Project Guide: Dr. NAVEEN.B [H.O.D.]

Project Guide: Dr. B.P. KAMAT


Reg.No.	Name of the student	Reg.No.	Name of the student
19S60050	DEEPALI.N.NAYAK	19S60040	AKSHAY PATIL
19S60051	ESHWARI.B.UMAKANT	19S60041	AMIT .V.N.
19S60052	FAKKIRESH.HALLI	19S60042	ANJANA .S.
19S60053	G.MANJUNATH	19S60043	ANNAPOORNA.C.H.
19S60054	GANGA.MUTTAGI	19S60044	ANNAPPA.LAVATE
19S60055	GEETA.ANIGOLMATH	19S60045	ARUNKUMAR
19S60056	GUNJA.CHAUHAN	19S60046	ASHWINI.KATPAL
19S60057	JYOTI.HOSMANI	19S60047	BHAGYALAXMI.KUMBAR
19S60058	KAMAT VISHAL VINAYAK	19S60048	CHAITRA.V.M.
19S60059	KAVYA.S.DANRADDI	19S60049	CHANDBI

Project Guide: Dr. RAGHAVENDRA.G.T.

Project Guide: Dr. SHILPA NAYAK

Reg.No.	Name of the student	Reg.No.	Name of the student
19S60060	KISHAN.N.H	19S60070	PRIYA KUMAR DARUR
19S60061	KONDAYYA.L.M	19S60071	RADHIKA.S.H.
19S60062	LALITA.H.MUDHOL	19S60072	RAHUL.R.
19S60063	MANJUNATH.M.M	19S60073	RAJESHWARI.GARAG
19S60064	NAMRATA.N.M	19S60074	RAJU SHINDE
19S60065	PANCHAKSHARI SWAMI	19S60075	RAVIKUMAR M VIBHUTI
19S60066	PATIL SHEETAL TUKARAM	19S60076	SAMPAT P VIBHUTIMATH
19S60067	PRASAD PATIL	19S60077	SANDEEP SHIDENOOR
19S60068	PRAVEEN.D.MAGADUM	19S60078	SANKET MUNIYAL
19S60069	PREETI.P.PALKAR	19S60079	SAVITRI KULIGOD

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PRINCIPAL
J.S.S. Banasahankari Arts, Commerce &
S.K. Gubbi Science College
DHARWAD-04



Vidyagiri
DHARWAD-4.

Project Guide: Dr.T.M.GIREESH

Project Guide: Mrs.PRIYANKA JOSHI

Reg.No.	Name of the student	Reg.No.	Name of the student
19S60080	SEEMA A NAYAK	19S60092	SUNEEL.S.K.
19S60081	SHAHEEN.L.C	19S60093	SUPRIT.F.HUDED
19S60082	SHARADA KULKARNI	19S60094	SUPRIYA.K.KUNDAGOL
19S60083	SHILPA JALOJI	19S60095	SUSHANT.S.
19S60084	SHRINIDHI.K	19S60097	TAZNREEN.R.
19S60085	SHWETA.M.	19S60098	VAISHAK.M.
19S60086	SHWETA.N.	19S60099	VAISHNAVI.A.
19S60087	SHWETA.P.C	19S60100	VEENA.N.DAMBAL
19S60089	STAVARMATH KAVITA	19S60101	VEERESH.SIMPI
19S60091	SUMA.C.B.	19S60133	SWATI PRABHU

TOTAL NO.OF STUDENTS = 60

N Badgell
15/12/2020

HEAD OF THE DEPARTMENT

HOD PG Chemistry
Banashankari Arts, Commerce
& S.K. Gubbi Science College
Vidyagiri, Dharwad-580 004

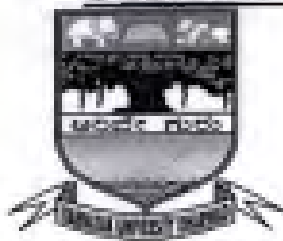
PRINCIPAL

Principal / Co-Ordinator
J.S.S. Banashankari Arts, Commerce
& S. K. Gubbi Science College
Vidyagiri, Dharwad- 580004

107

J.S.S. Banashankari
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004

SYNTHESIS OF BENZIMIDAZOLE DERIVATIVES



'A' Grade

NAAC Accredited



'A' Grade

NAAC Accredited

A DISSERTATION SUBMITTED TO THE KARNATAKA UNIVERSITY, DHARWAD

IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF

MASTER OF SCIENCE

IN

GENERAL CHEMISTRY

BY

MS. LALITA H. MUDHOL

REG. NO: 19S60062

PROJECT GUIDE

Dr. Raghavendra G. Tasaganva (M.Sc., Ph.D.)

P.G. DEPARTMENT OF GENERAL CHEMISTRY

J.S.S. BANASHANKARI ARTS, COMMERCE & S.K. GUBBI SCIENCE

COLLEGE- VIDYAGIRI, DHARWAD 580004

KARNATAKA, INDIA

2020-21

Lalita H. Mudhol

J.S.S. Baner
Shantikumar G.
DHARWAD 580004

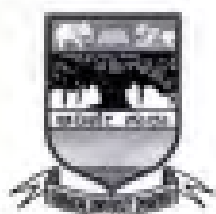


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KARNATAK UNIVERSITY

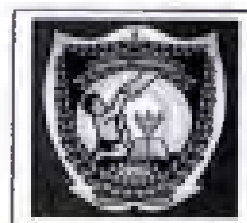
J.S.S BANASHANKARI ARTS, COMMERCE & S.K. GUBBI SCIENCE COLLEGE

DHARWAD-580004



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CERTIFICATE

This is to certify that **Ms. LALITA H MUDHOL** has successfully carried out the dissertation work entitled **"SYNTHESIS OF BENZIMIDAZOLE DERIVATIVES"** at Post Graduate Department of Studies in General Chemistry, J.S.S College, Dharwad. The project report is being submitted in partial fulfillment for the award of Master of Science in General Chemistry.

PROJECT SUPERVISOR

HEAD OF THE DEPARTMENT

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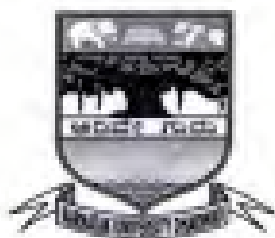
J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science College
Shantikumar Gubbi Street, Dharwad
DHARWAD-580004

02/10/21



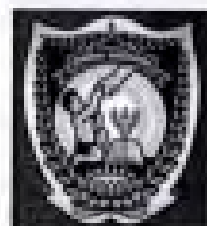
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**SYNTHESIS, CHARACTERIZATION AND
SOLVATOCHROMIC STUDIES OF CHALCONE
DERIVATIVES**



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A DISSERTATION SUBMITTED TO THE KARNATAKA UNIVERSITY, DHARWAD

IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF

MASTER OF SCIENCE

IN

GENERAL CHEMISTRY

BY

MR. RAHUL R

REG. NO: 19S60072

PROJECT GUIDE

Dr. Shiipa Nayak (M.Sc., Ph.D)

P.G. DEPARTMENT OF GENERAL CHEMISTRY

J.S.S. BANASHANKARI ARTS, COMMERCE & S.K. GUBBI SCIENCE

COLLEGE- VIDYAGIRI, DHARWAD 580004, KARNATAKA, INDIA 2020-21



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Discovered
01/12/2021*



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CERTIFICATE

This is to certify that **MR. RAHUL R** has successfully carried out the dissertation work entitled **"SYNTHESIS, CHARACTERIZATION AND SOLVATOCHROMIC STUDIES OF CHALCONE DERIVATIVES"** at Post Graduate Department of Studies in General Chemistry, J.S.S College, Dharwad. The project report is being submitted in partial fulfillment for the award of Master of Science in General Chemistry

PROJECT SUPERVISOR

N Badgu 2/9/2021

HEAD OF THE DEPARTMENT

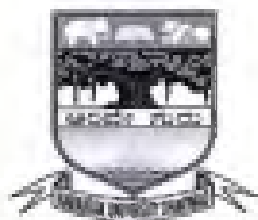
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1/1/2021
VALUED

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Dharwad-580004

**"STUDY OF ANTI-MICROBIAL PROPERTIES AND PHYTOCHEMICAL ANALYSIS
OF EXTRACTS OF LEAVES OF TREES OF TERMINALIA GENUS"**



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IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF

MASTER OF SCIENCE

IN

GENERAL CHEMISTRY

BY

Mr. Kamat Vishal Vinayak

Reg. No: 19S60058

PROJECT GUIDE

Dr. Bhalchandra P. Kamat M.Sc., Ph.D

Associate Professor

P.G. Department of General Chemistry

J.S.S. Banashankari Arts, Commerce & S.K. Gubbi Science

College, Vidyagiri, Dharwad 580004

Karnataka, India

August 2021



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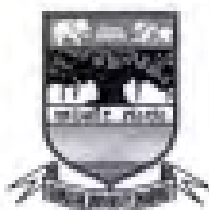
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This is to certify that **Mr. Kamat Vishal Vinayak** has successfully carried out the dissertation work entitled "**STUDY OF ANTI- MICROBIAL PROPERTIES AND PHYTOCHEMICAL ANALYSIS OF EXTRACTS OF LEAVES OF TREES OF TERMINALIA GENUS**" at Post Graduate Department of Studies in General Chemistry, J.S.S College, Dharwad. The project report is being submitted in partial fulfillment for the award of Master of Science in General Chemistry.

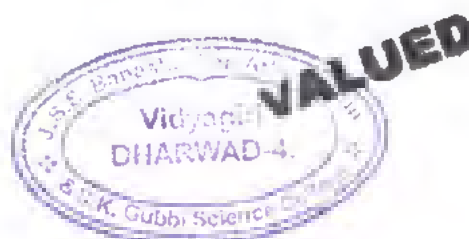

2/9/2021
PROJECT SUPERVISOR


2/9/2021
HEAD OF THE DEPARTMENT

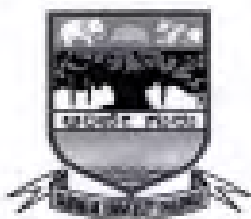

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Dharwad

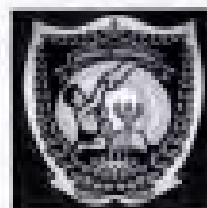
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01/10/21



SYNTHESIS AND SPECTRAL CHARACTERIZATION OF AZO-DYES.



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IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF

MASTER OF SCIENCE

IN

GENERAL CHEMISTRY

BY

GEETA ANIGOLMATH

REG.NO.19S60055

PROJECT SUPERVISOR

Dr.Naveen.P.Badiger M.Sc. Ph.D

P.G.Department, of chemistry

J.S.S.Banashankari Arts, Commerce & S.K.Gubbi Science

College-Vidyagiri, Dharwad 580004

Karnataka, India

2021



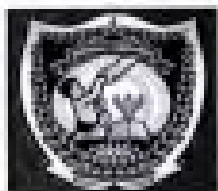
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CERTIFICATE

This is to certify that **Ms.GEETA ANIGOLMATH** has successfully carried out the dissertation work entitled **"SYNTHESIS AND SPECTRAL CHARACTERIZATION OF AZO-DYES"** under the supervision of **Dr. NAVEEN.P.BADIGER.** at Post Graduate Department of Studies in Chemistry, JSS College, Dharwad. The project report is being submitted in partial fulfillment for the award of a Master of Science in General Chemistry.

N Badiger

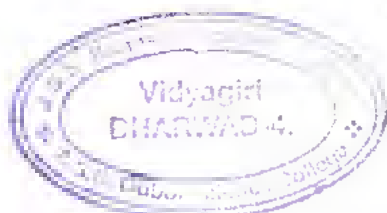
Dr. Naveen.P.Badiger

HOD, P.G Chemistry

N

Dr. Ajith Prasad

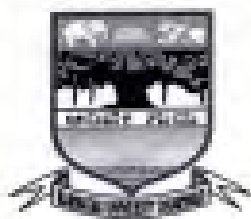
Principal
JSS College, Dharwad



11/09/2024

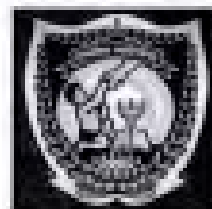
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**PREPARATION OF STARCH BIOPLASTICS AND DOPING OF BIOPLASTIC
WITH ZnO NANOPARTICLES**



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MASTER OF SCIENCE

IN

GENERAL CHEMISTRY

BY

Ms SUSHMA D PRABHU Reg No: 19560133

PROJECT GUIDE

Mrs PRIYANKA JOSHI (M.Sc)

P.G. DEPARTMENT OF GENERAL CHEMISTRY

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COLLEGE- VIDYAGIRI, DHARWAD 580004

KARNATAKA, INDIA

SEPTEMBER 2021



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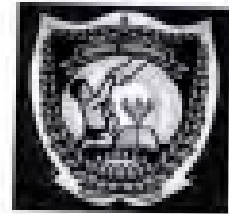
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*Examined
Sushma D
01/10/2021*



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CERTIFICATE

This is to certify that Ms SUSHMA D PRABHU has successfully carried out the dissertation work entitled "**PREPARATION OF STARCH BIOPLASTICS AND DOPING OF BIOPLASTIC WITH ZnO NANOPARTICLES**" at Post Graduate Department of Studies in General Chemistry, J.S.S College, Dharwad. The project report is being submitted in partial fulfilment for the award of Master of Science in General Chemistry.

PROJECT SUPERVISOR

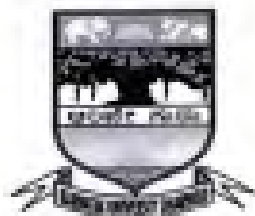
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**REVIEW STUDY ON PYRIMIDINE BASED OXADIAZOLE
COMPOUNDS AND THEIR BIOLOGICAL ACTIVITY**



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A DISSERTATION SUBMITTED TO THE KARNATAK UNIVERSITY, DHARWAD

IN PARTIAL FULFILMENT FOR THE AWARD OF DEGREE OF

MASTER OF SCIENCE

IN

GENERAL CHEMISTRY

BY

Ms. SUMA BHUJANGANAVAR

REG.NO:19S60091

PROJECT GUIDE

Dr. T.M.GIREESH M.Sc., Ph.D

P.G. DEPARTMENT OF GENERAL CHEMISTRY

J.S.S. BANASHANKARI ARTS, COMMERCE & S.K. GUBBI SCIENCE

COLLEGE- VIDYAGIRI, KARNATAKA, INDIA

DHARWAD 580004

2020-2021

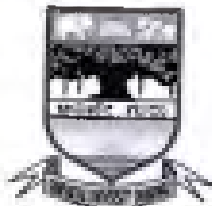


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Shaatikumar Gubbi Science College,
DHARWAD-580004

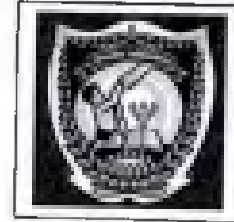
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CERTIFICATE

This is to certify that **Ms.Suma Bhujanganavar** has successfully carried out the dissertation work entitled "**Review study on pyrimidine based oxadaiazole compounds and their biological activity**" at Post Graduate Department of Studies in General Chemistry, J.S.S College, Dharwad. The project report is being submitted in partial fulfilment for the award of Master of Science in General Chemistry.

Canal
14/9/21

PROJECT SUPERVISOR

Badgel
17/9/21

HEAD OF THE DEPARTMENT

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**JSS BANASHANKRI ARTS , COMMERCE AND SCIENCE COLLEGE ,
DHARWAD**

**DEPARTMENT OF M.COM
2020-21**

Karnatak University, Dharwad. M.Com program insist students of IV semester to undergo their project work for 100 marks. The project is integral part of the study. So, the entire project is carried for one semester. The basic objective of project is to explore the students to corporate world and ask them to apply theories into practice.

Total number of students will be divided in to 4 groups and each faculty will take up the guidance for the conducting of project. list of the project topics quoted by students are sent to university for prior approval and then they are carried for further study by the students. Basically the students can take up their projects in various areas of commerce and management. These include taxation, financial market, portfolio management , international finance & accounting. Majority of the projects are on secondary data and few are concentrated on primary data. With the consent from project guide, a student can take up any of the topic in the above areas. The students are empowered to select the organisation in consent with the guide. Students have to show their progress to the concerned guide on regular interval. Every month student has to present their progress and updates for further process before guide. Before the end of semester students submit their reports for the Viva.


To list a few major topics in taxation - students focuses on income tax and GST related topics, in financial management they focus on ratios, working capital management and trend analysis, in portfolio management they focus on mutual funds and performance , in international finance on options, swaps & in accounts they focus on inflation accounting and education accounting.

The number of students under taken the project in the year 2020-21 are 51 students.

The project viva voce was conducted online as per KUD notification 2 batched were made hence students appeared for online viva in the college premises. Google meet link was sent to college and 2 batch students appeared viva. Attendance was taken at college level and forwarded to KUD.




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PART-B
Detailed Course Structure of the M.Com Programme

Semester	Subjects	Max. Marks		Total Marks	Hrs/ week	Credits
		IA	Sem. end Exam			
I	Compulsory Courses					
1.1	Marketing Management	25	75	100	04	04
1.2	Financial Management	25	75	100	04	04
1.3	Organizational Behaviour	25	75	100	04	04
1.4	Strategic Management	25	75	100	04	04
1.5	Security Analysis and Portfolio Management	25	75	100	04	04
	Total Marks/Credits for the First Semester	125	375	500	20	20
II	Compulsory Courses					
2.1	Financial Reporting Standards	25	75	100	04	04
2.2	Mergers and Acquisitions	25	75	100	04	04
2.3	Business Research Methods	25	75	100	04	04
2.4	Strategic Human Resource Management	25	75	100	04	04
2.5	Economic Analysis for Managerial Decisions	25	75	100	04	04
2.6	Open Elective Course (To be chosen from the courses offered by the other Departments)	25	75	100	04	04
	Total Marks/Credits for the Second Semester	150	450	600	24	24
	Open Elective Course (meant for the students of other Departments) Introduction to Business	25	75	100	04	04
III	Compulsory Courses					
3.1	Accounting Information System	25	75	100	04	04
3.2	International Finance	25	75	100	04	04
	Specialization Groups					
Group A (Cost Management and Control)						
3.3	Operations Management	25	75	100	04	04
3.4	Cost Management	25	75	100	04	04
3.5	Advanced Management Accounting	25	75	100	04	04
Group B (Accounting and Taxation)						
3.3	Company Accounts	25	75	100	04	04
3.4	Accounting for Specialized Institutions	25	75	100	04	04
3.5	Corporate Tax Planning - I (Direct Taxes)	25	75	100	04	04

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421

Group C (Accounting and Finance)						
3.3	Company Accounts	25	75	100	04	04
3.4	Accounting for Specialized Institutions	25	75	100	04	04
3.5	Basics of Financial Derivatives	25	75	100	04	04
Group D (Finance)						
3.3	Basics of Financial Econometrics	25	75	100	04	04
3.4	Corporate Financial Risk Management	25	75	100	04	04
3.5	Basics of Financial Derivatives	25	75	100	04	04
Group E (Banking and Finance)						
3.3	Principles of Bank Management	25	75	100	04	04
3.4	Corporate Financial Risk Management	25	75	100	04	04
3.5	Basics of Financial Derivatives	25	75	100	04	04
3.6	Open Elective Course (To be chosen from the courses offered by the other departments)	25	75	100	04	04
	Total marks/credits for the Third Semester	150	450	600	24	24
3.6	Open Elective Course (meant for the students of other Departments) Digital Marketing	25	75	100	04	04
IV	Compulsory Courses					
4.1	Business Data Communication And Networking	25	75	100	04	04
4.2	Corporate Governance	25	75	100	04	04
	Specialization Groups					
Group A (Cost Management & Control)						
4.3	Strategic Cost Management	25	75	100	04	04
4.4	Quantitative Methods for Cost Accountants	25	75	100	04	04
4.5	Cost and Management Audit	25	75	100	04	04
4.6	Project Report and Viva Voce		50	100		04
			50			
Group B (Accounting and Taxation)						
4.3	Contemporary Issues in Accounting	25	75	100	04	04
4.4	Corporate Tax Planning – II (GST and Customs)	25	75	100	04	04
4.5	International Taxation	25	75	100	04	04



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4.6	Project Report and Viva Voce		50 50	100	-	04
Group C (Accounting and Finance)						
4.3	Contemporary Issues in Accounting	25	75	100	04	04
4.4	Business Analysis and Valuation	25	75	100	04	04
4.5	Project Finance	25	75	100	04	04
4.6	Project Report and Viva Voce		50 50	100	-	04
Group D (Finance)						
4.3	Behavioural Finance	25	75	100	04	04
4.4	Business Analysis and Valuation	25	75	100	04	04
4.5	Project Finance	25	75	100	04	04
4.6	Project Report and Viva Voce		50 50	100	-	04
Group E (Banking and Finance)						
4.3	Financial Management of Commercial Banks	25	75	100	04	04
4.4	Business Analysis and Valuation	25	75	100	04	04
4.5	Project Finance	25	75	100	04	04
4.6	Project Report and Viva Voce		50 50	100	-	04
	Total marks/credits for the Fourth Semester	125	475	600	24	24
	GRAND TOTAL (SEMESTER I,II,III& IV)	550	1750	2300	88	92



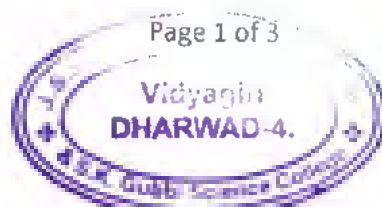
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MCOM LIST OF PROJECTS

M.Com IV sem Project Topic 2020-21 2021

Roll No	Reg No	Name	Topic
1	19C01437	Annapoorna N Katagi	Financial statement analysis - a study on Canara Bank.
2	19C01438	Apeksha SJ	Financial Modelling-Forecasting model & budget model for ICICI Bank.
3	19C01439	Apoorva Balagi	A study on comparative risk return analysis of selected sectoral indices with CNX Nifty Index.
4	19C01440	Apoorva Hiremath	A study on Cashflow Statement of Airtech Private Limited.
5	19C01442	Ashwini V Pai	GST on fast moving consumer goods with reference to select FMCG companies.
6	19C01443	Bhagyashree Shankar Hegde	Study of Solvency analysis with reference to Swarna Latex Suvarnagadde, Kumta.
7	19C01444	Bibijan Bagewadi	Vijaykanth dairy & food products Pvt.Ltd, Neginhal.
8	19C01445	Deepa S Kadabin	A study of Capital Structure of Humming Vard Automotive Interiors Ltd.
9	19C01446	Deepa V Patil	A study of Inventory Control Techniques on Vikas Cold Forge, Sirsi.
10	19C01447	Divya S Bhat	Financial Statement Analysis of Campco Ltd.
11	19C01448	Girija Pujar	A Study on operating Profit of Tata Steel Ltd.
12	19C01449	HemantKumar M Diddi	schemes offered by Aditya Birla Sun life mutual fund taking risk & return as major parameters.
13	19C01450	Hemavati S	A Study of Non-Performing Assets of Canara Bank.
14	19C01451	Kamati Swathi	A Study on financing Self-Help groups NBFC.
15	19C01452	Kaveri Maganur	Study of Credit Appraisal process at Central Bank of India.
16	19C01453	Kavya S Patil	Agriculture financing special study at Karnataka Vikas Grameena Bank (KVG).
17	19C01454	Keerti S Rayar	Tax Saving Schemes of LIC.
18	19C01455	Lalita Bovivaddar	Inventory management in Sugar Industry - A study of EID Parry India Ltd, Haliyal.
19	19C01456	Malatesh Tallur	A Study on Financial analysis of Axis Bank.
20	19C01457	Malatesh Patil	Advance tax of an Sole Proprietorship Firm.
21	19C01458	Marigoud Yaraddi	A study on Non-Performing assets and It's recovery steps taken by Bank of Baroda.

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 DHARWAD-590 004

Roll No	Reg No	Name	Topic
22	19C01459	Megha Ramannavar	Analysis of Loans and Advances of Bank of India.
23	19C01460	N Sridevi	A Study on accounting Policies of HCL Technologies Ltd.
24	19C01461	Navyashri J Shettar	A Study on Working Capital management on firms profitability in SLN Chemicals & Fertilizer.
25	19C01462	Nikita Masuti	Study on Capital Structure at Flowserve MicroFinish Pvt Ltd Company.
26	19C01463	Padmashree Doddamani	Technical analysis of equity shares in automobile sector.
27	19C01464	Padmavati Inamati	operative agriculture & rural development Bank (PCARDB).
28	19C01465	Pooja Basanal	Financial analysis of Reliance Industry.
29	19C01466	Pooja Revankar	CSR Accounting of Tata Motors.
30	19C01467	Pragati Goudar	A Study on Cost Variance analysis of Weir BDK Company.
31	19C01468	Raghavendra Umachagi	An analysis on the Loans operation at Jyoti Co-op Society at Holealur.
32	19C01469	Raju N Devagiri	A Study on Cash Management at Shree Laxmi Narayan Chemical Fertilizer Rayapur, Dharwad.
33	19C01470	Ravikumar K	Working Capital Management of Tata Motors Ltd.
34	19C01471	Rekha S Tadasur	Inventory Control & techniques of Appollo Pharmacy.
35	19C01472	Roopa Bhajantri	A Study on Ratio Analysis of Bharti Airtel Ltd.
36	19C01473	Sampada N Bhat	analysis of TMS(Taluka agricultural produce Co-op. marketing Society) Yellapur.
37	19C01474	Savitri Nalavadi	A Study on Merger & Acquisition of Canara Bank & Syndicate Bank.
38	19C01475	Sharmeen R Shaikh	Study of Cash Management in State Bank of India.
39	19C01476	Shayeestabanu Yaligar	Financial analysis of Co-operative Rani Channamma Bank Saundatti.
40	19C01477	Shobha Gadag	Analysis of traditional investment avenues with special reference to mutual fund.
41	19C01478	Sneha K	Impact of GST on Automobile Industry - Maruti Suzuki.
42	19C01479	Sumitra Rathod	A Study on Inventory management in Shri Durga Granite.
43	19C01480	Supreeta V Naik	Analysis of Finance & Performance of Vyavasaya Seva Sahakari Sangha Kelaginur, Honnavar.

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Principal
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Sl No	Reg No	Name	Topic
44	19C01481	Sushma Pujar	Tax saving schemes of Indian Post Office.
45	19C01482	Swati Kyatanavar	An analysis on the CSR activities in ITC Ltd.
46	19C01483	Veena H Pammar	attitude towards investment in Private insurance Companies.
47	19C01484	Veeresh Marakatti	A Study on investment pattern of X,Y & Z generation - with reference to Bangalore City.
48	19C01485	Vidya Hongal	Financial analysis of Veera Rani Mallamma Urban Credit Souhard Sahakari Ltd Belavadi.
49	19C01486	Vidyashree R Patil	Comparative analysis of Performance of Public sector & Private sector Mutual Funds.
50	19C01487	Vijaylakshmi Salimath	Working Capital Estimation of Vijayakanth Dairy & Food Products Pvt Ltd, Neginhal.
51	19C01488	Vishwanath Narasinha Hegde	Analysis of Financial Statements of Sciencetech Services.



[Signature]
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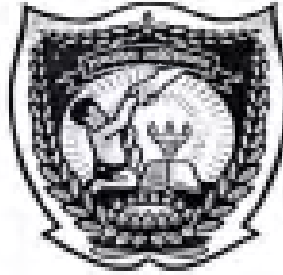
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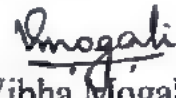


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CERTIFICATE

This is to certify that - Miss. **POOJA V. REVANKAR** has satisfactorily completed the project work entitled "A STUDY ON CSR ACCOUNTING OF TATA MOTORS" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-21.



Prof. Rajani Talikoti
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No : 19C01466
Date of Examination :
Signature of the examiner :




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J.S.S. Banashankari Arts, Commerce &
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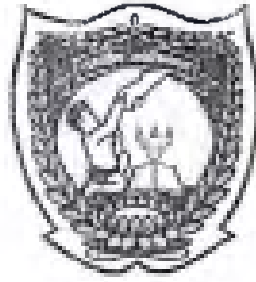
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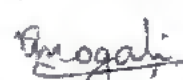


(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Miss. **PRAGATI PRADEEP GOUDA** has satisfactorily completed the project work entitled "**A STUDY ON COST VARIANCE ANALYSIS AT WEIR BDK COMPANY**" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Rajani Talikoti
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator


Examination Seat No : 19C01467

Date of Examination :

Signature of the examiner :

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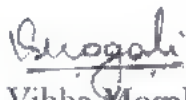


(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that Mr. Raghavendra Umachagi has satisfactorily completed the project work entitled "An Analysis on the Loans Operation at Jyoti Co-op Society at Holealur." required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-2021.



Prof. Rajani Talikoti
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/ Co-ordinator

Examination Seat No : 19C01468
Date of Examination :
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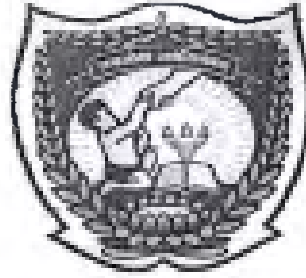
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(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that **Mr. RAJU N DEVAGIRI** has satisfactorily completed the project work entitled "A STUDY ON CASH MANAGEMENT AT SHRI LAXMI NARAYAN CHEMICAL AND FERTILIZERS LTD" required for partial fulfilment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-21.


Prof. Rajani Talikoti
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01469

Date of Examination:

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CERTIFICATE

This is to certify that MR. RAVIKUMAR KALAPPANAVAR has satisfactorily completed the project work entitled "WORKING CAPITAL MANAGEMENT OF TATA MOTORS LTD." required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-2021.

Prof. Rajam Tuljoti
Project Guide

Prof. Vibha Mogali
HOD

Dr. Ajith Prasad
Principal/ Co-ordinator

Examination Seat No : 19C01470

Date of Examination :

Signature of the examiner :



Ajith Prasad
PRINCIPAL
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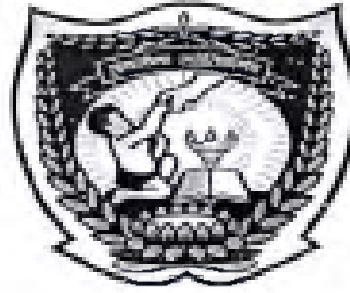
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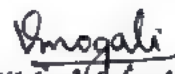



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CERTIFICATE

This is to certify that **REKHA S TADASUR** has satisfactorily completed the project work entitled "**A STUDY ON INVENTORY CONTROL AND TECHNIQUES OF APOLLO PHARMACY**" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-21.


Prof. Rajani Talikoti
Project Guide


Prof. Vibha Mogali
HOD



Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01471

Date of Examination:

Signature of the examiner:




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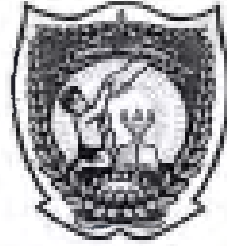
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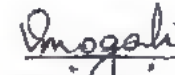



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CERTIFICATE

This is to certify that Miss. Roopa Bhajantri has satisfactorily completed the project work entitled "A Study On Ratio Analysis of Bharti Airtel Limited", required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnatak University Dharwad for the year 2020-2021.


Prof. Rajani Talikoti
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/ Co-ordinator


Examination Seat No : 19C01472

Date of Examination :

Signature of the examiner:



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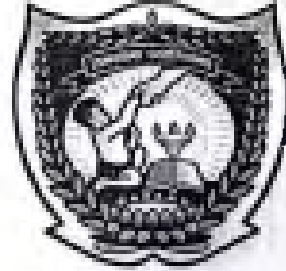
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DEPARTMENT OF M.COM




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CERTIFICATE

This is to certify that **SAMPADA N BHAT** has satisfactorily completed the project work entitled "**A STUDY ON OPERATING EFFICIENCY AND PROFITABILITY ANALYSIS OF YELLAPUR TALUKA AGRICULTURAL PRODUCE CO-OPERATIVE MARKETING SOCIETY LTD.**" required for partial fulfilment of the course, Master of Commerce (M. Com) awarded by Karnataka University Dharwad for the year 2019-21 .


Prof. Rajani Talikoti
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No : 19C01473

Date of Examination :

Signature of the examinee:




PRINCIPAL

J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580004

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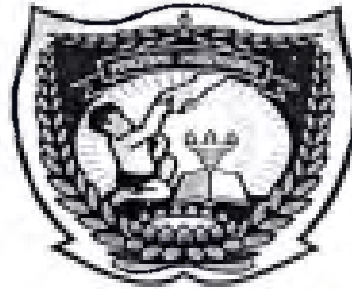
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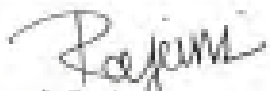
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CERTIFICATE

This is to certify that **SAVITRI NALAVADI** has satisfactorily completed the project work entitled "A STUDY ON MERGER OF CANARA AND SYNDICATE BANK" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-21.


Prof. Rajan Talikoti
Project Guide

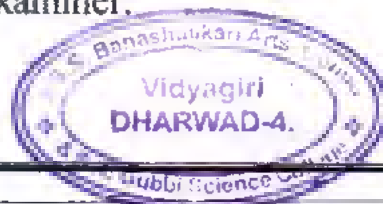

Prof. Vibha Mogali
HOD



Dr. Ajith Prasad
Principal/Co-ordinator

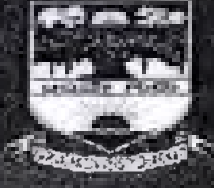
Examination Seat No: 19C01474

Date of Examination:

Signature of the examiner:




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DHARWAD-580 004



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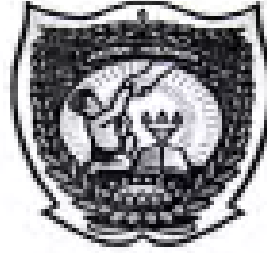
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(M.COM COURSE) COLLEGE, VIDYAGIRI, DHARWAD.



(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that SHARMEEN R SHAIKH has satisfactorily completed the project work entitled "A STUDY ON CASH MANAGEMENT AT SBI" required for partial fulfilment of the course, Master of Commerce (M.COM) awarded by Karnataka University Dharwad for the year 2019-2021.

Rajani
Prof. Rajani Talikoti

Project Guide

Vibha Mogali
Prof. Vibha Mogali

HOD

Ajith Prasad
Dr. Ajith Prasad

Principal/ Co-ordinator

Examination Seat No: 19C01475

Date of Examination:

Signature of the Examiner:



Shantikumar
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004

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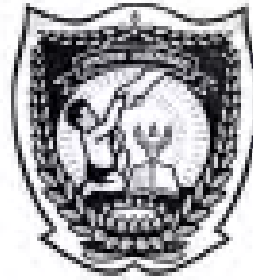
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S.K GUBBI SCIENCE COLLEGE VIDYAGIRI, DHARWAD.

DEPARTMENT OF MCOM



(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that miss. SHAYEESTABANU M YALIGAR has satisfactorily completed the project work entitled "FINANCIAL ANALYSIS OF CO OPERATIVE RANI CHANNAMA MAHILA SAHAKARI BANK NIYAMIT BELGAUM SAUNDATTI required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Prof. Sridevi Inamdar
Project Guide

Prof. Vibha Mogali
HOD

Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01476

Date of Examination :

Signature of the examiner :

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PRINCIPAL

J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
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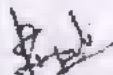
COLLEGE, VIDYAGIRI, DHARWAD.

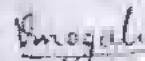



(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that **SHOBHA GADAD** has satisfactorily completed the project work entitled "ANALYSIS OF TRADITIONAL INVESTMENT AVENUES WITH SPECIAL REFERENCE TO MUTUAL FUND" required for partial fulfillment of the course, Master of Commerce (M. Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Sridevi Inamdar
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01477

Date of Examination :

Signature of the examiner:


PRINCIPAL

J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
DHARWAD-590 004



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JanataShikshanaSamiti's

Banashankari Arts, Commerce & S.K Gubbi Science


(Department of M.com) College, Vidyagiri, Dharwad.

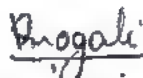


(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Miss. Sneha k khandekar has satisfactorily completed the project work entitled "A Study on impact of GST on Automobile Industry in maruti suzuki" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Sridevi Inamdar
Project Guide



Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01478

Date of Examination :

Signature of the examiner :


PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantivanar Gubbi Science College.



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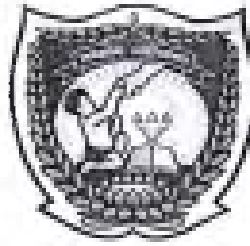
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JanataShikshanaSamiti's

Banashankari Arts, Commerce & S.K Gubbi Science

College, Vidyagiri, Dharwad.


Department of Mcom




(Affiliated to Karnataka University, Dharwad)

Certificate


This is to certify that Miss. SUMITRA RATHOD has satisfactorily completed the project work entitled "A Study On Inventory Management" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Sridevi Inamdar
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01479
Date of Examination :
Signature of the examiner :


PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
Dharwad-4

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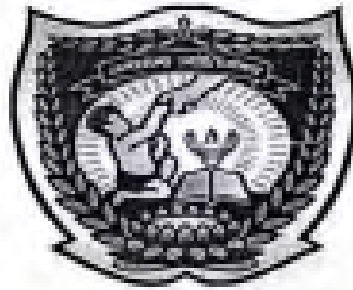


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COLLEGE, VIDYAGIRI, DHARWAD.
DEPARTMENT OF M COM



(Affiliated to Karnataka University, Dharwad)
CERTIFICATE

This is to certify that **SUPREETA VINAYAK NAIK** has satisfactorily completed the project work entitled "A study on Analysis of finance and performance of Vyavasaya Seva Sahakari sangha kelaginuru Honnavra." required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-21

Prof. Sridevi Inamdar
Project Guide

Prof. Vibha Mogali
HOD

Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01480
Date of Examination:
Signature of the examiner:

PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
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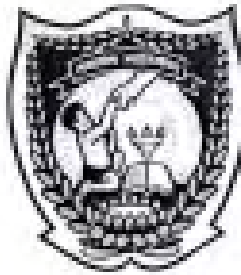
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Vidyagiri, Dharwad.**

Department Of M.Com



(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Miss. Sushma S Pujar has satisfactorily completed the project work entitled "A Study On Tax Saving Schemes of Indian Post Office" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Prof. Sridevi Inamdar
Project Guide

Prof. Vibha Mogali
HOD

Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19CO1481
Date of Examination :
Signature of the examiner :

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Shantikumar Gubbi Science College,
DHARWAD-580 004

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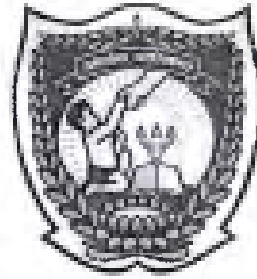
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Banashankari Arts, Commerce & S.K Gubbi Science

College Vidyagiri, Dharwad.

Dept of M.Com



(Affiliated to Karnatak University, Dharwad)

Certificate

This is to certify that MISS.SWATI G KYATANAVAR has satisfactorily completed the project work entitled "AN ANALYSIS ON THE CSR ACTIVITIES IN ITC LTD." required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-2021.

Sridevi Inamdar
Project Guide

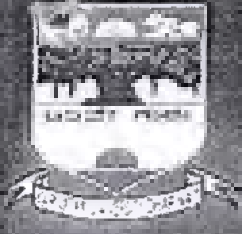
Prof. Vibha Mogali
HOD

Dr. Ajith Prasad
Principal/ Co-ordinator

Registration Seat No : 19CO1482
Date of Examination :
Signature of the examiner

442

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DHARWAD-580004



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KARNATAK UNIVERSITY DHARWAD

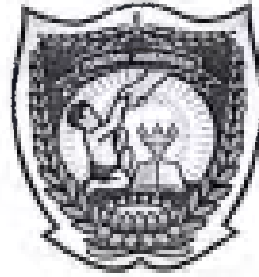
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COLLEGE VIDYAGIRI, DHARWAD.

DEPARTMENT OF MCOM




(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Miss. VEENA H PAMMAR has satisfactorily completed the project work entitled "A STUDY ON INVESTMENT OPTION AND INVESTORS ATTITUDE TOWARDS INVESTMENT (WITH REFERENCE TO LIC)" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Sridevi Inamdar
Project Guide

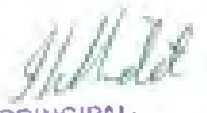

Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01483

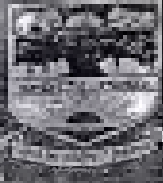
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Signature of the examiner :


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DHARWAD-580 004

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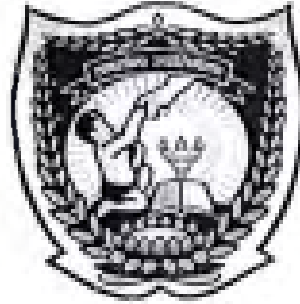


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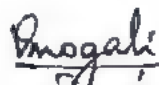


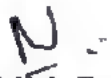
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Certificate

This is to certify that VEERESH MARAKATTI has satisfactorily completed the project work entitled "A STUDY ON INVESTMENT PATTERN OF X, Y, AND Z GENERATION WITH REFERENCE TO BANGLORE CITY" required for partial fulfilment of the course, Master of Commerce (M.COM) awarded by Karnataka University Dharwad for the year 2020-21.


Prof. Shridevi Inamdar
Project Guide


Prof. Vibha Mogali
HOD



Dr. Ajith Prasad
Principal / Co-ordinator

Examination Seat No: 19C01484

Date of Examination:

Signature of the Examiner:

WYS


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DHARWAD-580004



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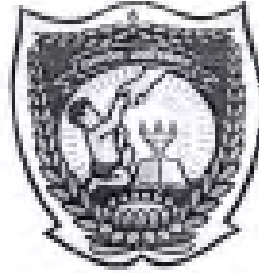
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DEPARTMENT OF MCOM




(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that MISS. VIDYA HONGAL has satisfactorily completed the project work entitled "FINANCIAL ANALYSIS OF VEERA RANI MALLAMMA URBAN CREDIT SOUHARD SAHAKARI LTD BELAVADI" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Sridevi Inamadar
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01485

Date of Examination :

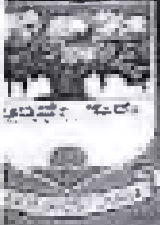
Signature of the examiner :



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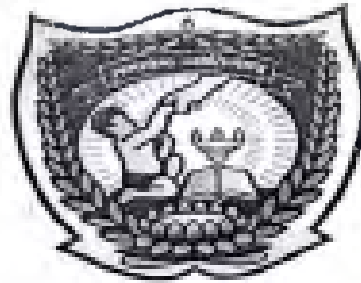
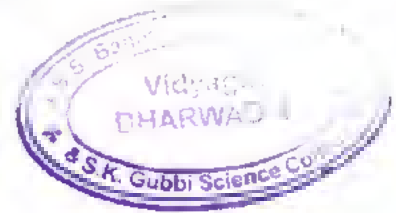
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Department of M.com





(Affiliated to Karnataka University, Dharwad)

CERTIFICATE


This is to certify that Miss. VIDYASHREE PATIL has satisfactorily completed the project work entitled "A STUDY ON COMPARATIVE ANALYSIS OF PERFORMANCE OF PRIVATE AND PUBLIC SECTOR MUTUAL FUNDS (SBI AND HDFC)" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-21.


Prof. Sridevi Inamdar
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Coordinator

Examination Seat No: 19C01486
Date of Examination:
Signature of the examiner:


PRINCIPAL
J.S.S. Banashankari Arts Commerce &
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DHARWAD-580 004

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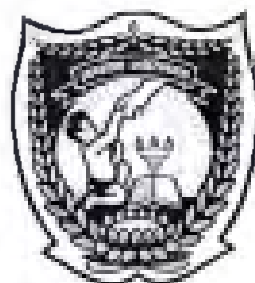
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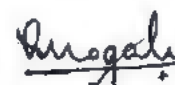


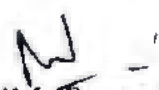
(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Miss. VIJAYLAKSHMI SALIMATH has satisfactorily completed the project work entitled "WORKING CAPITAL ESTIMATION OF VIJAYAKANTH DAIRY AND FOOD PRODUCTS PVT LTD, NEGINHAL" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Sridevi Inamdar
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01487

Date of Examination : *

Signature of the examiner :

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DHARWAD-580 004



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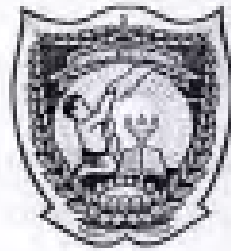
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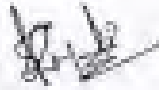
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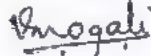


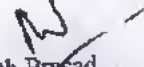
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Certificate

This is to certify that **MR.VISHWANATH NARASINHA HEDGE** has satisfactorily completed the project work entitled "**AN ANALYSIS ON FINANCIAL STATEMENTS OF SCIENTEK SERVICES**" required for partial fulfilment of the course, Master of Commerce (M.Com) awarded by Karnatak University Dharwad for the year 2019-2021.


Prof. Sridevi Inamdar
Project Guide



Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/ Co-ordinator

Examination Seat No : 19CO1488

Date of Examination :

Signature of the examiner


PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD



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KARNATAK UNIVERSITY DHARWAD

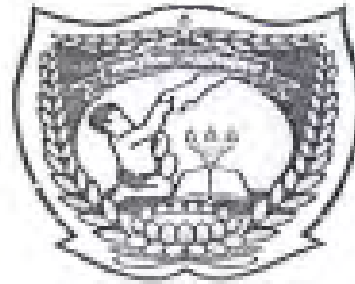
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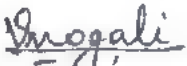
Department of Mcom




(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that ANNAPOORNA KATAGI has satisfactorily completed the project work entitled "FINANCIAL STATEMENT ANALYSIS, A STUDY ON CANARA BANK" required for partial fulfillment of the course, Master of Commerce awarded by Karnataka University Dharwad for the year 2019-21


Prof. Vibha Mogali
Project Guide



Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01437

Date of Examination:

Signature of the examiner:


PRINCIPAL
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Shantikumar Gubbi Science College.
DHARWAD-580 004



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College, Vidyagiri, Dharwad.


(Affiliated to Karnataka University, Dharwad)


Dept of M.Com



Certificate

This is to certify that Miss. APEKSHA S J has satisfactorily completed the project work entitled "FINANCIAL MODELLING: FORECASTING MODEL AND BUDGET MODEL FOR ICICI BANK" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Vibha Mogali
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01438

Date of Examination :

Signature of the examiner :

US1


PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
Dharwad - 580004



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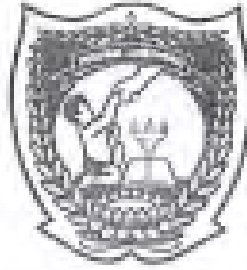
JanataShikshanaSamiti's

Banashankari Arts, Commerce & S.K Gubbi Science

College, Vidyagiri, Dharwad.

(Affiliated to Karnataka University, Dharwad)

Dept of M.com



Certificate

This is to certify that Miss. Aproova B Balagi has satisfactorily completed the project work entitled "A STUDY ON COMPARATIVE RISK RETURN ANALYSIS OF SELECTED SECOTRAL INDICES WITH CNX FIFTY INDEX" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Vmogali

Prof. vibha mogali
Project Guide

Vmogali

Prof. VibhaMogali
HOD

N.

Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01439

Date of Examination :

Signature of the examiner :

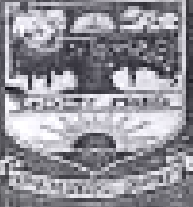
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M. K. S.

PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
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DHARWAD-580 004

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JanataShikshanaSamiti's

BANASHANKARI ARTS, COMMERCE &

S.K GUBBI SCIENCE COLLEGE VIDYAGIRI, DHARWAD.

DEPARTMENT OF M.COM



(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Miss. APOORVA HIREMATH has satisfactorily completed the project work entitled "A STUDY ON CASH FLOW STATEMENT OF AIRTECH PRIVATE LIMITED DHARWAD" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Vmogali

Prof. Vibha Mogali
Project Guide

Vmogali

Prof. Vibha Mogali
HOD

Ajith Prasad

Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01440

Date of Examination :

Signature of the examiner :

Ajith Prasad

PRINCIPAL

J.S.S. Banashankar Arts Commerce &
Shantikumar Gubbi Science College,



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S.K. GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD.

DEPARTMENT OF M.COM.



(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that **ASHWINI PAI** has satisfactorily completed the project work entitled " **A STUDY ON THE EFFECT OF PRE AND POST ADOPTION OF GOODS AND SERVICES TAX ON FAST MOVING CONSUMER GOODS WITH SPECIAL REFERENCE TO FMCG COMPANIES** " required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Vibha Mogali
Prof. Vibha Mogali
Project Guide

Vibha Mogali
Prof. Vibha Mogali
HOD

Ajith Prasad
Dr. Ajith Prasad
Principal/ Co-ordinator

Examination Seat No : 19CO1442

Date of Examination :

Signature of the examiner :

154

Ajith Prasad
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004



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KARNATAK UNIVERSITY DHARWAD

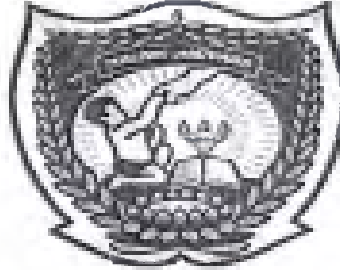
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Janata Shikshana Samiti's

BANASHANKARI ARTS, COMMERCE &

S.K GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD.


DEPARTMENT OF M COM



(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that **BHAGYASHREE SHANKAR HEGDE** has satisfactorily completed the project work entitled "A Study of Solvency analysis at Swarna latex suvarnagadde kurata" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-21


Prof. Vibha Mogali
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01443

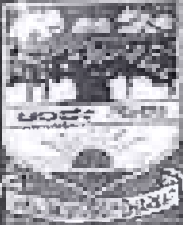
Date of Examination :

Signature of the examination :


PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004

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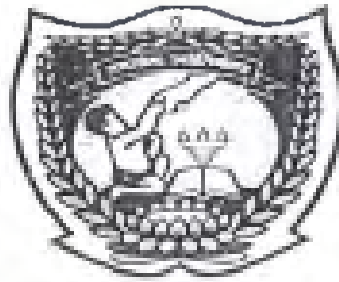
KARNATAK UNIVERSITY DHARWAD

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Janata Shikshana Samiti's
BANASHANKARI ARTS, COMMERCE & S.K GUBBI SCIENCE

COLLEGE VIDYAGIRI, DHARWAD.

Department of M.com



(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that **BIBIJAN BAGEWADI** has satisfactorily completed the project work entitled "**FINANCIAL STATEMENT ANALYSIS OF VIJAYKANT DAIRY AND FOOD PRODUCTS PVT LTD NEGINHAL**" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-21

Vibha Mogali

Prof. Vibha Mogali
Project Guide

Vibha Mogali

Prof. Vibha Mogali
HOD

Dr. Ajith Prasad

Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01444

Date of Examination:

Signature of the examiner:

456

Dr. Ajith Prasad
PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shankar Gubbi Science College,
Dharwad-4



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KARNATAK UNIVERSITY DHARWAD

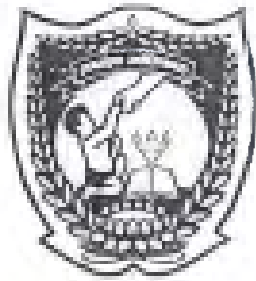
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Banashankari Arts, Commerce & S.K Gubbi Science

CollegeVidyagiri, Dharwad.

Dept of M.Com



(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that MISSDEEPA KADABIN has satisfactorily completed the project work entitled "A STUDY ON CAPITAL STRUCTURE OF HUMMING VARD AUTOMATIVE INTIRIOUS LTD" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Vibha Mogali

Prof. VIBHA MOGALI
Project Guide

Vibha Mogali

Prof. Vibha Mogali
HOD

Ajith Prasad

Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01445

Date of Examination :

Signature of the examiner:

US7

Ajith Prasad

PRINCIPAL

J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004



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DEPARTMENT OF MCOM



(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that MISS. DEEPA PATIL has satisfactorily completed the project work entitled "A STUDY ON INVENTORY CONTROL TECHNIQUES ON BHARAT FORGE LIMITED" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Vibha Mogali

Prof. Vibha Mogali
Project Guide

Vibha Mogali

Prof. Vibha Mogali
HOD

Ajith Prasad

Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01446

Date of Examination :

Signature of the examiner :

USB

Ajith Prasad

PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004



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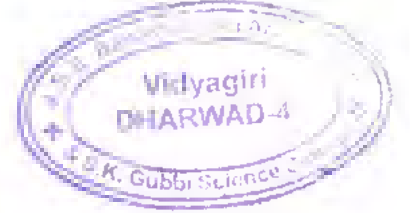
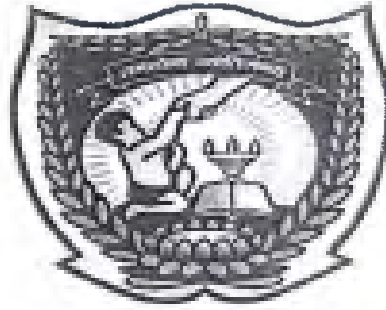
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Department of M.Com



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CERTIFICATE

This is to certify that **MISS. DIVYA .S. BHAT** has satisfactorily completed the project work entitled "**FINANCIAL PERFORMANCE ANALYSIS OF CAMPCO LTD.**" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-21.

Vibha Mogali

Prof. Vibha Mogali
Project Guide

Vibha Mogali

Prof. Vibha Mogali
HOD

Ajith Prasad

Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01447

Date of Examination:

Signature of the examiner:

1159

Ajith Prasad

PRINCIPAL

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Siantikumar Gubbi Science College,
DHARWAD-580 004



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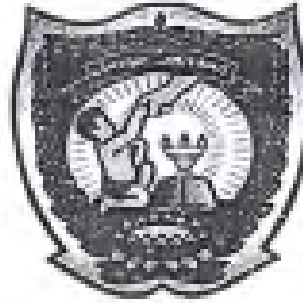
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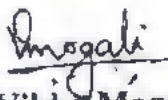
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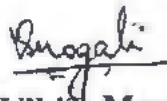


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Certificate

This is to certify that **Miss. GIRIJA SOMAYYA PUJAR** has satisfactorily completed the project work entitled "**A STUDY ON OPERATING PROFIT ANALYSIS OF TATA STEEL LTD**" required for partial fulfillment of the course, Master of Commerce (M.com) awarded by Karnataka University Dharwad for the year 2019-21



Prof Vibha Mogali
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Co-Ordinator

Examination Seat No : 19C01448
Date of Examination :
Signature of the Examiner :

460


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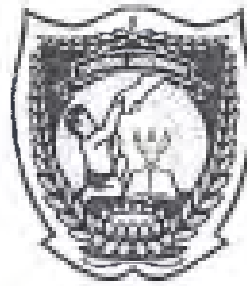
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College Vidyagiri, Dharwad.

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This is to certify that Mr. HEMANTKUMAR MALLIKARJUN DIDDI has satisfactorily completed the project work entitled COMPARATIVE ANALYSIS OF PERFORMANCE OF SELECT MUTUAL FUND SCHEMES OFFERED BY ADITYA BIRLA SUN LIFE MUTUAL FUND TAKING RISK AND RETURN AS MAJOR PARAMETERS required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

V. Mogali
Prof. Vibha Mogali
Project Guide

V. Mogali
Prof. Vibha Mogali
HOD

Ajith Prasad
Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01449

Date of Examination :

Signature of the examiner :

461

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(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Ms. HEMAVATI S has satisfactorily completed the project work entitled "A STUDY ON NON PERFORMING ASSET IN CANARA BANK" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Prof. Channarayana Kittur
Guide

Prof. Vibha Mogali
HOD

Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01450

Date of Examination :

Signature of the examiner:

462

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DHARWAD-580 004



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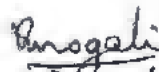


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Certificate

This is to certify that Miss.Kamati Swathi has satisfactorily completed the project work entitled "A Study on Financing Self-Help Groups NBFC" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Chaitanya Kittur
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01451

Date of Examination :

Signature of the examiner :

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Certificate

This is to certify that Ms. KAVERI MAGANUR has satisfactorily completed the project work entitled "CREDIT APPRICAL PROCESS AT CENTRAL BANK OF INDIA " required for partial fulfilment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Chaitanya Kittur
Project Guide


Prof. Vibha Mogali
HOD

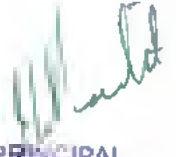

Dr. Ajith Prasad
Principal/coordinator

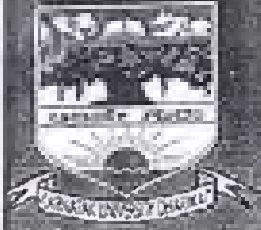
Examination Seat No : 19C01452

Date of Examination :

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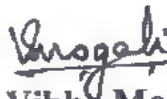



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Certificate

This is to certify that Miss. Kavya Shivanagouda Patil has satisfactorily completed the project work entitled "Agriculture Financing Special Study A Karnataka Vikas Grameena (KVG) Bank" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Chaitanya Kittur
Project Guide


Prof. Vibha Mogali
HOD



Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01453

Date of Examination :

Signature of the examiner :




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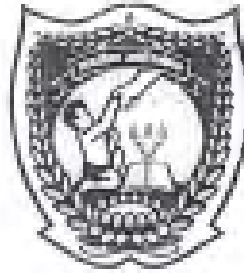
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Certificate

This is to certify that MISS. KEERTI .S. RAYAR has satisfactorily completed the project work entitled "A STUDY ON TAX SAVING SCHEMES OF LIC" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Chaitanya Kittur
Project Guide


Prof. Vibha Mogali
HOD



Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01454

Date of Examination :

Signature of the examiner :

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DHARWAD, KARNATAKA



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(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Miss. Lalita Bovivaddar has satisfactorily completed the project work entitled "INVENTORY MANAGEMENT IN SUGAR INDUSTRY" A STUDY OF EID PARRY INDIA LID., HALIYAL required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Channaya Kittur
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01455

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(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Mr. MALATESH G TALLUR has satisfactorily completed the project work entitled "A STUDY ON FINANCIAL ANALYSIS OF AXIS BANK" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.

Prof. Chaitanya Kittur
Project Guide

Prof. Vibha Mogali
HOD

Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01456

Date of Examination :

Signature of the examiner:

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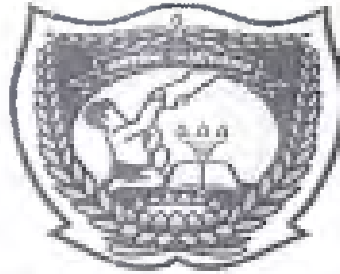
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CERTIFICATE

This is to certify that **MALATESH PATIL** has satisfactorily completed the project work entitled "A study of advance tax of an individual and company" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-20.


Prof. Chaitanya Kittur
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01457

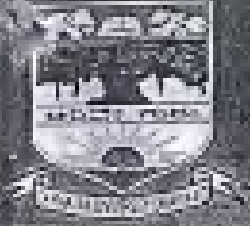
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Signature of the examiner:


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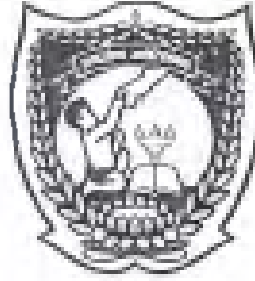
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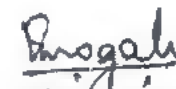


(Affiliated to Karnataka University, Dharwad)

Certificate

This is to certify that Mr. MARIGOUD YARADDI has satisfactorily completed the project work entitled "A STUDY ON NON-PERFORMING ASSETS AT BANK OF BARODA" required for partial fulfilment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Chaitanya Kittur
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01458

Date of Examination :

Signature of the examiner :


PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
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DHARWAD-581001



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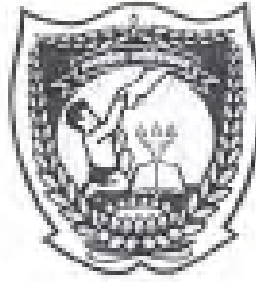
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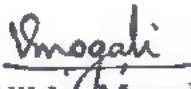


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Certificate

This is to certify that **MISS. MEGHA V RAMANNAVAR** has satisfactorily completed the project work entitled "A STUDY ON ANALYSIS OF LOANS AND ADVANCES AT BANK OF INDIA" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Chaitanya Kittur
Project Guide



Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01459

Date of Examination :

Signature of the examiner :


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(Dept Of M.com) College, Vidyagiri, Dharwad.

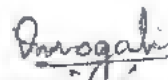



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Certificate

This is to certify that Miss. N SRIDEVI has satisfactorily completed the project work entitled "A STUDY ON FINANCIAL ANALYSIS OF KOTAK MAHINDRA BANK" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-2021.


Prof. Chaitanya Kittur
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/coordinator

Examination Seat No : 19C01460
Date of Examination :
Signature of the examiner :


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COLLEGE, VIDYAGIRI, DHARWAD.


DEPARTMENT OF M.COM




(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that **Ms. NAVYASHRI J SHETTAR** has satisfactorily completed the project work **A STUDY ON WORKING CAPITAL MANAGEMENT ON FIRMS PROFITABILITY IN SLN CHEMICALS AND FERTILIZER** entitled required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-2021.


Prof. Chaitanya Kittur
Project Guide



Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/ Co-ordinator

Examination Seat No : 19CO1461

Date of Examination :

Signature of the examiner:


PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-590 004.

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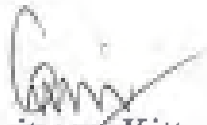
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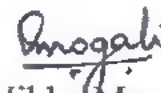


(Affiliated to Karnataka University, Dharwad)

CERTIFICATE


This is to certify that Miss. **NIKITA MASUTI** has satisfactorily completed the project work entitled "A Study on Capital Structure At Flowserve Microfinish valves and pumps Pvt Ltd" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-21.


Prof. Chaitanya Kittur
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No : 19C01462
Date of Examination :
Signature of the examiner :


PRINCIPAL
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Shantikumar Gubbi Science College,
DHARWAD-580 004

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(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that Miss. **PADMASHREE DODDAMANI** has satisfactorily completed the project work entitled "**TECHNICAL ANALYSIS OF EQUITY SHARES IN AUTOMOBILE SECTOR**" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-21.

Rajani
Prof. Rajani Talikoti
Project Guide

Vibha Mogali
Prof. Vibha Mogali
HOD

Ajith Prasad
Dr. Ajith Prasad
Principal/Co-ordinator

Examination Seat No: 19C01463
Date of Examination:
Signature of the examiner:

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PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College;

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KARNATAK UNIVERSITY DHARWAD

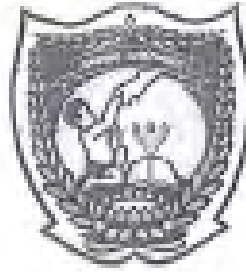
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COLLEGE, VIDYAGIRI, DHARWAD


DEPARTMENT OF M.COM




(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that Miss. Padmavati Namati has satisfactorily completed the project work entitled "A Study On management of deposits and loans in primary co-operative agriculture and rural development bank" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2020-2021.


Prof. Hajani Tikoti
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/ Co-ordinator

Examination Seat No : 19C01464

Date of Examination :

Signature of the examiner :


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COLLEGE VIDYAGIRI, DHARWAD.**

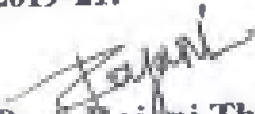
DEPARTMENT OF M.COM



(Affiliated to Karnataka University, Dharwad)

CERTIFICATE

This is to certify that Miss. POOJA BASANAL has satisfactorily completed the project work entitled "FINANCIAL ANALYSIS OF RELIANCE INDUSTRY" required for partial fulfillment of the course, Master of Commerce (M.Com) awarded by Karnataka University Dharwad for the year 2019-21.


Prof. Rajani Thalikota
Project Guide


Prof. Vibha Mogali
HOD


Dr. Ajith Prasad
Principal/Coordinator

Examination Seat No: 19C01465
Date of Examination:
Signature of the examiner:


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Shankumar Gubbi Science College,
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DEPARTMENT OF ZOOLOGY

JSS Banashankari Arts, commerce and Shantikumar Gubbi
Science College, Dharwad

Report on students Project work for the year- 2020- 2021

During the academic year 2020-2021 the on-site field visits and other survey works involving human subjects were suspended by observing the COVID- 19 protocol and restrictions. However, the students were allotted with internet/ online based survey work on the basis of which the students prepared the report and submitted the same to the department.

Y. Gayamma,
Head of the Department
HOD
Dept of Zoology
JSS College
Vidyagiri, Dharwad-04

J. Mandit
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004.





V SEMESTER

PAPER 5.2: ETHOLOGY AND APPLIED ZOOLOGY

Teaching hours : 45 hrs

INTRODUCTION	02 hrs.
Definition, scope of ethology, contributions of Konrad Lorenz, Niko Tinbergen and Karl von Frisch	
II. TYPES OF ANIMAL BEHAVIOUR	04 hrs.
Innate behavior, taxes, reflexes, instincts and motivation, learned behavior, habituation, imprinting, conditioned reflexes and insight learning	
III. SOCIAL ORGANISATION IN ANIMALS	04 hrs.
Honey bees, termites and langurs.	
IV. COURTSHIP BEHAVIOUR	04 hrs.
General principles of courtship behavior with suitable examples	
V. PARENTAL CARE	04 hrs.
Parental care in fishes, amphibians and birds with suitable examples	
VI. NESTING BEHAVIOUR	03 hrs.
Types of Nests: Nests and nesting behavior in wasps and birds (with suitable examples)	
VII. COLORATION AND MIMICRY	03 hrs.
Definition, types of mimicry, Batesian Mullerian protective, aggressive and warning mimicry with suitable Indian examples	
VIII. ANIMAL COMMUNICATION	02 hrs.
Functions of signals, odors, sounds and light.	
IX. APICULTURE	03 hrs.
Importance, history and developments of bee keeping. Different species of honey bees and their distribution. Management of bees, product and byproducts of apiculture and their uses	
X. AQUACULTURE	04 hrs.
Fresh water, brackish and marine water fish culture in India, prawn and pearl culture.	

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K. S. ...
DHARWAD



XI. VERMICULTURE

02 hrs.

Introduction and importance of vermiculture. Different species of earthworm used in vermiculture, uses of earthworms for biodegradation of organic waste materials, earthworm as protein source, vermiculture technique

XII. POULTRY SCIENCE

03 hrs.

Introduction, breeds of fowls, poultry keeping, nutritive value of egg and meat, poultry diseases

XIII. DAIRY TECHNOLOGY

02 hrs.

Introduction, breeds of cattle, breeding and cattle improvement in India, nutritive value of milk and milk byproduct

XIV. SERICULTURE

05 hrs.

Mulberry varieties and cultivation methods (Pit system and Row system). Types of silkworms, a. Mulberry silkworms and b. Non-Mulberry silkworms. Life history of silkworm and importance of sericulture. Silkworm rearing, chawki rearing and late age worms rearing. Mounting and harvesting. Silk worm diseases in brief

(Unit I to VIII: Ethology; Unit IX to XIV: Applied Zoology)

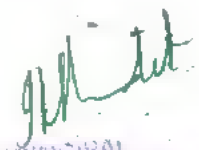
PRACTICAL 52

1. Identification of castes in social insects
2. Observation of courtship behavior in animals
3. Observation of parental care in animals
4. Observation of different types of nests and nest materials
5. Coloration and mimicry
6. Breeds of poultry
7. Life cycle of silk worm, study of diseases of silk worm
8. Study of commercially important
 - a. Crustaceans
 - b. Molluscs
 - c. Fishes
9. Visit to nearby dairy, poultry, sericulture farm, bee keeping unit, vermiculture unit and termite mound for observation



SCHEME OF PRACTICAL EXAMINATION:

1. Identification	10 x 2 = 20
a. Nest / Castes in social insects -any 2	
b. Coloration and mimicry	
c. Poultry breeds	
d. Silkworm life cycle	
e. Commercially important fishes, crustacean, molluscans, freshwater fish and marine water fish (one from each)	
f. Courtship behavior / Parental care (any one)	
2. Project report	10
3. Viva	05
4. Journal	<u>05</u>
 Total	 40


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 Dist. Dharmwad, Solapur District College.



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ಶಾಂತಿಕುಮಾರ ಗುಬ್ಬಿ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ
ವಿದ್ಯಾಗಿರಿ, ಧಾರವಾಡ-೫೮೦ ೦೦೪.



Janata Shikshana Samiti's

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SHANTIKUMAR GUBBI SCIENCE COLLEGE,
Vidyagiri, Dharwad-580 004.**

Ph.: (0836) 2468478, Fax : (0836) 2462200
E-mail : principaljsscollegedwd@gmail.com

ನ್ಯಾಕ್ ಸಂಖ್ಯೆಯಿಂದ 'A' ಗ್ರೇಡ್ ಸುಸಂಸ್ಥಿತ
ಯು.ಪಿ.ಸಿ. ಯಿಂದ 'CPE' ಮಾನ್ಯತೆ

Reaccredited at the 'A' level by NAAC
"College with Potential for Excellence" recognition by UGC

Ref. No. JSSCD/

Date :

As per the mandatory requirement prescribed by Karnatak
University, Dharwad 95 students of B.Sc.V Semester have done
projects during the year 2020-2021.

The details of the projects are enclosed.


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**List of B.Sc. V Semester Student Groups and their Respective Topics for
the Projects 2020 - 2021**

Name of the Students	Topic of Project	Year	Mentor
Akshata B. Kurabagatti Amrutavarshini S. Dalal Asha Ashwini Badiger Aishwarya A Kuratti	Ornamental fishes	2020- 2021	Dr. Smt. Y. Jayamma
Aymanzartajbegum S. P. Bhagya N. Kambli Bhavana M. Angadi Soundarya D. Nayak	Distribution of common butterflies in and around Vidyagiri Dharwad	2020- 2021	Dr. Smt. Y. Jayamma
Chaitra S. Vastramath Deepa Budihal Amruta Deshpande Gouri K. Huchannavar Spandana M. Hegde	Study of different variety of birds nest and their number in JSS campus.	2020- 2021	Dr. Smt.Y. Jayamma
Kavana Hasyagar Keerti P. Talageri Krupa Hegde Mammata S. Wali Usha R. Goudar	Economic importance of Molluscs.	2020- 2021	Dr. Smt.Y. Jayamma
Mansi G. Nagaveni A. Kalkani Namrata Shelar Nayana A. Naik Nazreen Bijapur	Study on sericulture practice and recent advances.	2020- 2021	Smt. G. V. Chavannavar
Nikhitha M. U. Nilam N. Shitole Nisha G. Kavalikai Padmapriya Pooja A. Kumboji	Economic importance of freshwater fishes.	2020- 2021	Smt. G. V. Chavannavar
Pooja Dange Prajakta Preethi P. Sidenur Rajani Haibatti Sahana P.	Study of poultry diseases	2020- 2021	Smt. G. V. Chavannavar
Name of the Students	Topic of Project	Year	Mentor

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Sampada Goni Saniya W.C. Sanjana A. Pawadi Shankamma Shilpa B. Golannavar Roopashree Hiremth	Nutritive value of egg and meat of birds.	2020- 2021	Smt. G. V. Chavannavar
Vidya M. Kurahatti Desai Vijayalaxmi Vastrad Sindhu S. Savadatti Soujanya S. Kamatar	Vermitechnology	2020- 2021	Sri. R. M. Pattar
Adarsh D. S. Aravind T. Arun Naik Arun R. Lonari	An insight in to bee and beeking	2020- 2021	Sri. R. M. Pattar
Chetan H. Kuri Goutam S. Babali Gyanendra Manjunath A. Piraji	Studies on termite diversity in JSS campus	2020- 2021	Sri. R. M. Pattar
Shreenidhi Hegde Soumya M. Anad Chaitra P. B.	Cattle breeding and its economics	2020- 2021	Sri. R. M. Pattar
Rajashekhhar K. Mulimani Rathod W. Tukaram Ravikant Rajavvagol Santosh M. Turamari Shashank S. Akki. Pramod J. Kappali	Freshwater fish farming	2020- 2021	Sri. Manjunath G. P.
Shashikanth Shashikumar Bhajantri Shivaprasad Totagi Shreeshail Nagurameti. Muzamill H. A. Kalabur.	Study of termite mounds and their colony characters	2020- 2021	Sri. Manjunath G. P.

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Name of the Students	Topic of Project	Year	Mentor
Sunita Aralikatti Sushmita Patted Swathi C. Swati P. Deshpande. Kiran Prabhakar.	Poultry nutrition	2020-2021	Sri. Manjunath G. P.
Arun Patil Mustaffa Raghavendra Biradar Raju Naik ShashiKumar B. Hosur	Milk and its products	2020-2021	Sri. Manjunath G. P.
Sudarshan H. Patil Varankumar M. H. Venkatesh Joshi Prasanna S. Adina.	Marine water fish farming	2020-2021	Dr. Kartheek R. M.
Vishal Hunchyali Vismaya C. Angadi Vithoba Lingaraj S. Malawad Raju Naik	Dairy technology: A study on rural practice and community study	2020-2021	Dr. Kartheek R. M.
Tanuja Metagudd Tanuja P. Aladakatti Vaishnavi G. Lahane Vanita Mattihalli Prashant Dodamani	Studies on Avian diversity in JSS campus, vidyagiri Dharwad	2020-2021	Dr. Kartheek R. M.
Ashiwini Haibatti Iramma Karnoor. Manjula R. Chikkamat Sushmita Kulkarni	Identification and habitat study of different spider species in vidyagiri Dharwad.	2020-2021	Dr. Kartheek R. M.

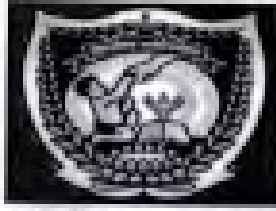
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Project Report on

“BEE AND BEE KEEPING” *Nalini*



College with Potential for Excellence

Pratibha

14/03/21

Y. Jayamma
14/03/2021

B.Sc. Dissertation Submitted to
JSS Banashankari Arts and Commerce and
SK Gubbi Science college, Vidhyagiri, Dharwad.
For the partial fulfillment of

**BACHELOR OF SCIENCE
IN
ZOOLOGY**

By

ARUN R LONARI -18S11234

ARAVIND T -18S11231

ARUN NAIK -18S11233

ADARSH D S -18S11207

Under the Guidance of

SHRI. R M PATTAR

Department of Zoology

JSS College Dharwad – 580004

Karnataka, India

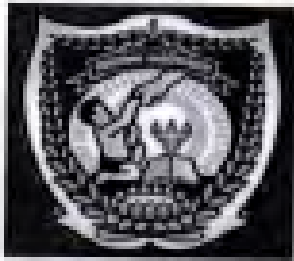
2021

Pratibha
PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shant. Kumbhkar

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SHRI. R M PATTAR

Department of Zoology

**JSS Banashankari Arts Commerce and SK Gubbi Science College,
Vidhyagiri, Dharwad - 580004**



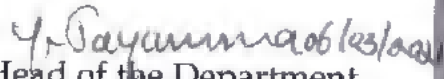
This is to certify that the work exemplified in this dissertation entitled “**BEE AND BEE KEEPING**” submitted by ARUN R LONARI , ARAVIND T, ARUN NAIK, ADARSH D S was carried out by them under my supervision. The project work has been prepared as per the regulations of JSS College, Dharwad, and I recommend that this project work can be accepted in partial fulfillment of the requirement for the degree of Bachelor of Science in Zoology.

Date: 6/3/21

Place: Dharwad


06.03.21
Project Supervisor
(Mr. R M PATTAR)


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Shantikumar Gubbi Science College,
Dharwad - 580004

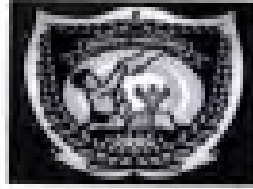

Head of the Department
(DR. Y. JAYAMMA)
Dept of Zoology
JSS College
Vidhyagiri, Dharwad-04.



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Project Report on

“Study of Termites Diversity in Dharwad”



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B.Sc. Dissertation Submitted to
JSS Banashankari Arts and Commerce and
SK Gubbi Science college, Vidhyagiri, Dharwad.
For the partial fulfillment of

BACHELOR OF SCIENCE IN ZOOLOGY

By

Gyanendra - 18S11294

Manjunath.A.P. - 18S11333

Chetan.H.K. - 18S11270

Goutam.S.B. - 18S11289

Under the Guidance of

SHRI.R.M.PATTAR

Department of Zoology

JSS College Dharwad – 580004

Karnataka, India

2021



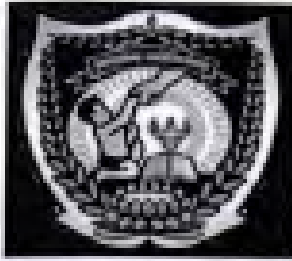
M. Mandit

PRINCIPAL

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Shantikumar Excellence College,
Dharwad

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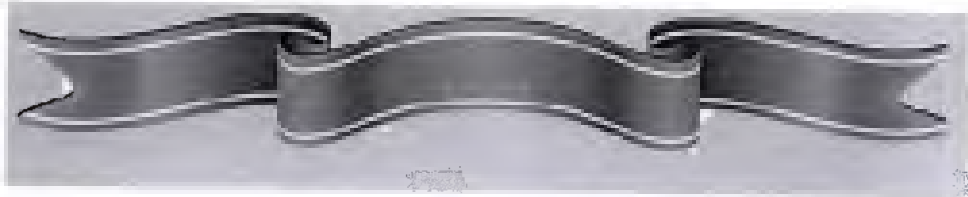
Vakul
Prof
WCBM
Y. Jayamma
14/03/2021



SHRI.R.M.PATTAR

Department of Zoology

**JSS Banashankari Arts Commerce and SK Gubbi Science College,
Vidhyagiri, Dharwad - 580004**



This is to certify that the work exemplified in this dissertation entitled “**STUDY OF TERMITES DIVERSITY IN DHARWAD**” submitted by **Gyanendra ,Manjunath.A.P,Chetan.H.K,Goutam.S.B** was carried out by them under my supervision. The project work has been prepared as per the regulations of JSS College, Dharwad, and I recommend that this project work can be accepted in partial fulfillment of the requirement for the degree of Bachelor of Science in Zoology.

Date: 8/03/2021

Place: Dharwad

Shri R.M. Pattar
PRINCIPAL

J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
Dharwad - 580004

R.M.P.
08.03.21
Project Supervisor

(Shri.R.M.Pattar).

Y. Jayamma 08/03/2021
Head of the Department

HOD in
(*Dr. Jayamma*)
JSS College
Vidhyagiri, Dharwad-04.



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