RANI CHANNAMMA UNIVERSITY, BELAGAVI.

Department of Post Graduate Studies and Research in Commerce



Syllabus of Master of Commerce

(With effect from Academic Year 2017-18)

IV Semester



Sem	Paper Code	Course	IA Marks	Sem End Marks	Total	Hrs/ Week	Credit
III	3.1	Business Research Methods	20	80.	100	04	04
	3.2	International Financial Management	20	80	100	04	04
	Group- A: Accounting and Finance						
	3.3 A	Financial Markets and Institutions	20	80	100	04	04
	3.4 A	Corporate Accounting	20	80	100	04	04
	3.5 A	Accounting for Specialised Institutions	20	.80	100	04	04
	Group	- B: Cost Accounting					
	3.3 B	Production and Operation Management	20	80	100	04	04
	3.4 B	Cost Management	20	80	100	04	04
	3.5 B	Cost Accounting Standards	20	80	100	04	04
	Group - C: Banking						
	3.3 C	Bank Marketing	20	80	100	-04	04
	3.4 C	Banking in India	20	80	100	04	04
	3.5 C	Management Accounting for Bankers	20	80	100	04	04
	Open l	Elective Course			100	VT I	
	3.6	To be chosen from the other Department	20	80	100	04	04
		Open Elective Course meant for other	20	80	100	04	04
		Departments - Personal Financial Planning	"		100	0.4	VT
		Total Marks/Credits	120	480	600	24	24
IV	4.1	E-Commerce	20	80	100	04	04
	4.2	International Business	20	80	100	04	04
	4.3	Project Report	50	50	100	04	04
	Group A: Accounting and Finance			- 50	100	04	04
	4.4 A	Security Analysis and Portfolio Management	20	80	100	04	0.4
	4.5 A	Innovations in Accounting	20	80	100	04	04
	4.6·A	Mutual Funds	20	80	100	04	04
	Group- B: Cost Accounting			00	100	04	U4
	4.4 B	Techniques of Costing	20	80	100	04	04
	4.5 B	Strategic Cost Management	20	80		04	04
	4.6 B	Recent Developments in Cost Accounting	20	80	100	04	04
	Group - C: Banking		20	. 60	100	04	04
	4.4 C	Foreign Exchange and Risk Management	20	90	100	04	0.1
	4.5 C	Financial Management in Commercial Banks	20	80	100	04	04
		Fund Management in Commercial Banks		80	100	04	04
		Total Marks/Credits	20	80	100	04	04
	_	TOTAL MAIL ROVEL CHIES	150	450	600	24	24



A PROJECT REPORT ON

"A STUDY ON EMPLOYEES SATISFACTION TOWARDS SHAKUNTALA HONDA MOTARS GOKAK"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course code - Do3 Academic Year-2018-19

SUBMITTED BY

MISS.ARATI R.BHANGARI

REG.NO: MC171802

INTERNAL GUIDE

Prof. S.A.DESHPANDE





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON EMPLOYEES SATISFACTION TOWARDS SHAKUNTALA HONDA MOTORS GOKAK" is submitted by Miss. ARATI R.BHANGARI (REG.NO: MC171802) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE'S G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof.S.A.Deshpande

Project Guide

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator

P. G. [M.Con.]

Dr.M.B.Kothale

Principal

PRINCIPAL G.I. Bagewadi Arts, Science P. L. R. G. I. B. College, Nipser Commerce College, NIPANI



A PROJECT REPORT ON

"A STUDY ON RECRUITMENT AND SELSCTION PROCESS IN SHREE RENUKA SUGARS LTD RAIBAG"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF MASTER

OF COMMERCE COURSE Code - DO3 Academic Year-2018-19

SUBMITTED BY

MR.ASHOK.M.VADAGOLE REG.NO: MC171803

UNDER THE GUIDANCE OF Prof. S.A.DESHPANDE





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, NIPANI.

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON RECRUITMENT AND SELECTION PROCESS IN SHREE RENUKA SUGARS LTD RAIBAG"

is submitted by Mr. Ashok .M. Vadagole (REG.NO: MC171803) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. S.A.Deshpande

Project Guide

HIPAN

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal
PRINCIPAL
G.I. Begewadi Arts, Science &
Commerce College, NIFANI.

A PROJECT REPORT ON

"A STUDY ON IMPACT OF LABOUR ABSENTEEISM ON PRODUCTIVITY AT SHIVSHAKTI SUGARS LTD. SOUNDATTI"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Lourse Lode - Po3 Academic Year-2018-19

SUBMITTED BY

Mr.BANDU S MALI REG.NO: MC171804

UNDER THE GUIDANCE OF PROF.S.A.DESHPANDE





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report "A STUDY ON IMPACT OF LABOUR ABSENTEEISM ON PRODUCTIVITY AT SHIVSHAKTI SUGARS LTD. SOUNDATTI is submitted by Mr.Bandu S Mali (REG.NO: MC171804) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. S.A.Deshpande

Prof. S.A.Deshpande

Project Guide

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.

Dr.M.B.Kothale

Principal

PRINCIPAL

G.I. Begewadi Arts, Science Commerce College, NIPANI



A PROJECT REPORT ON

"A STUDY ON CUSTOMER SATISFACTION TOWORDS YAMAHA BIKES AT SRI DARISHWAR AUTO'S CHIKODI."



TID INJAHON IN

SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE course code - Po3 Academic Year-2018-19

SUBMITTED BY

MISS.BHARATI R.BHANAJ REG.NO: MC171805

INTERNAL GUIDE
Prof. S.A.DESHPANDE





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CUSTOMER SATISFACTION TOWORDS YAMAHA BIKES AT SRI DARISHWAR AUTO'S CHIKODI" is submitted by Miss. BHARATI R.BHANAJ (REG.NO: MC171805) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. Sa Deshpande

Project Guide

MIPAN 2

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal
PRINCIPAL
agewadi Arts, Science

G.I. Bagewadi Arts, Science (Commerce College, NIPAII).

A PROJECT REPORT ON A STUDY ON RISK MANAGEMENT IN MICRO FINANCE AT IDF FSPL HUKKEI REGION



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE

COURSE COde - DO3

Academic Year-2018-19

SUBMITTED BY

MISS. DEEPA S MAGADUM

REGN.NO: MC171806

UNDER THE GUIDANCE

Prof. S A DESHAPANDE





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,
NIPANI

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled A STUDY ON RISK MANAGEMENT IN MICRO FINANCE AT IDF FSPL HUKKEI REGION Is submitted by DEEPA S MAGADUM REG NO: MC171806 in partial fulfillment of the requirements for the award of degree of Master Of Commerce in the Department of Commerce, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani affiliated to Rani Channamma university, Belagavi, during the academic year 2018-2019.

S

Prof. S.A.Deshpande

Prof. S.A.Deshpande

Dr.M.B.Kothale

Guide

Name of the last o

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani.

Principal
PRINCIPAL
G.I. Begewadi Arts, Science I
Commerce College, NIPAN

A PROJECT REPORT ON

"A STUDY ON PERFORMANCE AND PROBLEMS OF SHRI GAYATRI URBEN CREDIT SOUHARD SAHAKARI NIYMIT. HATTRGI."



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course code - Do3 Academic Year-2018-19

SUBMITTED BY

MISS. KAVERI D. BADAKAR REG.NO: MC171808

UNDER THE GUIDANCE OF Dr. C.V.KOPPAD





K.L.E. SOCIETY'S
G.LBAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, NIPANL

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON PERFORMANCE AND PROBLEMS OF SHRI GAYATRI URBEN CREDIT SOUHARD SAHAKARI NIYMIT. HATTRGL" Is submitted by Miss. KAVERI D. BADAKAR REG.NO. MC171808 in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Dr. C.V.Koppad

Project Guide

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Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal
PRINCIPAL
G.I. Bagewadi Arts, Science
Commerce College, NIPANI.

A PROJECT REPORT ON " A STUDY ON IMPACT OF SELF-HELP GROUPS ON WOMEN EMPOWERMENT IN CHIKODI TALUKA IN BELAGAVI DISTRICT**



VIDYASANGAMA

SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF MASTER OF COMMERCE Course code - PO3 Academic Year-2018-19

SUBMITTED BY

MISS, KRISHNABAI, M.PIRAJI

REG.NO: MC171809

UNDER THE GUIDANCE OF

Dr.B.M.Hiremath





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON IMPACT OF SELF-HELP GROUPS ON WOMEN EMPOWERMENT IN CHIKODI TALUKA IN BELAGAVI DISTRICT" Is submitted by KRISHNABAI. M. PIRAJI (REG.NO: MC171809) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post-graduation studies in commerce) Nipani.

Dr.B.M.Hiremath

Prof.S.A.Deshapande

Dr.M.B.kothale

Project Guide

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Principal
PRINCIPAL
GI. Bagewadi Arts, Science &
Commerce College, NIPAN

A PROJECT REPORT ON "A STUDY ON CASH FLOW STATEMENT AT SHRI DOODHAGANGA KRISHNA SAHAKARI SAKKARE KARKHANE NIYMIT, CHIKKODI"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course code - Do3 Academic Year-2018-19

SUBMITTED BY

MISS. LAXMI K. WATHARE REG.NO: MC171810

UNDER THE GUIDANCE OF Dr. B.M. HIREMATH





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,

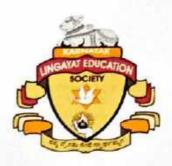
NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CASH FLOW STATEMENT AT SHRI DOODHAGANGA KRISHNA SAHAKARI SAKKARE KARKHANE NIYMIT, CHIKKODI" is submitted by Miss. LAXMI K. WATHARE (Reg No: MC171810) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Project Guide

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Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal PRINCIPAL

G.I. Bagewadi Arts, Science & Commerce College, NIPANI.

A PROJECT REPORT ON

"A STUDY ON ANALYSIS OF FINANCIAL STATEMENTS AT
POORVBHAG PRATHAMIK KRUSHI PATTIN SAHAKAR
SANGH N., SADALAGA"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE COURSE CODE - PO3 Academic Year-2018-19

SUBMITTED BY

Miss.MEGHA MANIK CHANDAGADE REG.NO: MC171811

UNDER THE GUIDANCE OF Dr. B.M. HIREMATH





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G.LBAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, NIPANL

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report "A STUDY ON ANALYSIS OF FINANCIAL STATEMENTS AT POORVBHAG PRATHAMIK KRUSHI PATTIN SAHAKAR SANGH N., SADALAGA" is submitted by Miss.Megha M Chandagade (REG.NO: MC171811) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.LB COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Dr.B.M. Hiremath

Project Guide

Prof. S.A.Deshpande

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.

Dr.M.B. Kothale

Principal
PRINCIPAL
G.I. Bagewadi Arts, Science
Commerce College, NIPAN

A PROJECT REPORT ON "A STUDY ON COST VOLUME AND PROFIT ANALYSIS IN DECISION MAKING IN HALSIDHNATH SAHAKARI SAKHAR KHARAKHNA LTD NIPANI"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE COURSE CODE - DO3 Academic Year-2018-19

SUBMITTED BY

Mr. Mohan Rajendra Biraje REG.NO: MC171812

UNDER THE GUIDANCE OF Dr. B.M. HIREMATH





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report "A STUDY ON COST VOLUME AND PROFIT ANALYSIS IN DECISION MAKING IN HALSIDHNATH SAHAKARI SAKHAR KHARAKHNA LTD NIPANI" is submitted by Mr. Mohan Biraje (REG.NO: MC171812) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Dr.B.M. Hiremath

Project Guide

THE PARTY OF THE P

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] KLE's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal
PRINCIPAL
G.I. Bagewadi Arts, Science 8
Commerce College, NIPAN

A PROJECT REPORT ON "A STUDY ON ANLYSIS OF FINANCIAL STATEMENT OF THE NUCLEUS GRAPHICS AT ICHALAKARANJI"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course code- Po3 Academic Year-2018-19

SUBMITTED BY

Miss. Nishiganda Ganapati Mali REG.NO: MC171813

UNDER THE GUIDANCE OF Dr. C.V. KOPPAD





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G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report "A STUDY ON ANLYSIS OF FINANCIAL STATEMENT OF THE NUCLEUS GRAPHICS AT ICHALAKARANJI" is submitted by Nishiganda Mali (REG.NO: MC171813) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Dr.C.V.Koppad

Project Guide

Prof. S.A.Deshpande

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.

Dr.M.B.Kothale

Principal

PRINCIPAL

G.I. Bagewadi Arts, Science & Commerce College, NIPANI.



A PROJECT REPORT ON "A STUDY ON LABOUR WELFARE MANAGEMENT AT VENKATESHWARA POWER PROJECT LTD."



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course code-Po3 Academic Year-2018-19

SUBMITTED BY

Miss. PADMASHREE K. LANGOTE REG.NO: MC171814

> UNDER THE GUIDANCE OF Dr. C.V. KOPPAD





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, NIPANL

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report "A STUDY ON LABOUR WELFARE MANAGEMENT AT VENKATESHWAR POWER PROJECT LTD." is submitted by Miss. Padmashree K. Langote (REG.NO: MC171814) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Dr.C.V. Koppad

Project Guide

Prof. S.A.Deshpande

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipant.

Dr.M.B.Kothale

Principal

G.I. Bagawadi Arts, Science Commerce College, NIPANI.



A PROJECT REPORT ON "A STUDY ON CRITICAL ANALYSIS OF NON- PERFORMING ASSETS AT THE JANATA CO-OPERATIVE BANK LTD. SADALAGA"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF
MASTER OF COMMERCE

Course Code - Dos Academic Year-2018-19

SUBMITTED BY

MISS, PALLAVI SIDDESHWAR ANURE REG.NO: MC171815

> UNDER THE GUIDANCE OF Dr. C.V.KOPPAD





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report "A STUDY ON CRITICAL ANALYSIS OF NON- PERFORMING ASSETS AT THE JANATA CO-OPERATIVE BANK LTD. SADALAGA" is submitted by Miss. Pallavi Anure (REG.NO: MC171815) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Dr.C.V.Koppad

Project Guide

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipanl, Dr.M.B.Kothale

Principal PRINCIPAL G.I. Bagawadi Arts, Science & Commerce College, NIPAN

A PROJECT REPORT ON "A STUDY ON CONSUMER BUYING BEHAVIOUR AT UTTAM MOTORS IN SADALAGA CITY"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course Code-Do3 Academic Year-2018-19

SUBMITTED BY

Miss.Pooja B Patil REG.NO: MC171816

UNDER THE GUIDANCE OF DR.C.V.KOPPAD





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report "A STUDY ON CONSUMER BUYING BEHAVIOUR AT UTTAM MOTORS IN SADALAGA

CITY" is submitted by Miss.Pooja B Patil(REG.NO: MC171816) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Dr.C.V.Koppad

Prof. S.A.Deshpande

Dr.M.B.Kothale

Principal

Project Guide

Co-Ordinator Co-ordinator P. G. [M.Com.]

PRINCIPAL

K.L.E's G. I. B. College, Nipani.

G.I. Bagewadi Arts, Science & Commerce College, NIPANI.



A PROJECT REPORT ON "A STUDY ON CREDIT RISK ASSESSMENT AT SHRI BEERESHWAR CO-OP CREDIT SOCIETY LTD., EXAMBA(MULTY-STATE)"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE course code - Do3 Academic Year-2018-19

SUBMITTED BY

MISS. POOJA S GAJARE REG.NO: MC171817

UNDER THE GUIDANCE OF Dr. C.V.KOPPAD





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CREDIT RISK ASSESSMENT AT SHRI BEERESHWAR CO-OP CREDIT SOCIETY LTD., EXAMBA(MULTY-STATE)" is submitted by Miss. POOJA S GAJARE (REG.NO: MC171817) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Dr.C.V.Koppad

Project Guide

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal
PRINCIPAL
G.I. Bagewadi Arts, Science 8
Commerce College, NIPAN



A PROJECT REPORT ON

" A STUDY ON CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN RETAIL INDUSTRY AT M. K. SUPER MARKET, HUKKERI"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE COURSE CODE - DO3 Academic Year-2018-19

SUBMITTED BY

MISS. PREETIPARVATI C. KARDEGOUDA REG.NO: MC171819

UNDER THE GUIDANCE OF

Prof. S.P.SANSUDDI





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.LBAGEWADIARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN RETAIL INDUSTRY AT M. K. SUPER MARKET, HUKKERI" is submitted by Miss. PREETIPARVATI C. KARDEGOUDA (REG. NO. MC171819) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. S.P.Sansuddi

Project Guide

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal
PRINCIPAL
G.I. Begewadi Arts, Science &
Commerce College, NIPAN

A PROJECT REPORT ON

"A STUDY ON EVALUATION OF FINANCIAL PERFORMANCE OF PADMAWATI FORGE PVT.LTD. KAGAL."



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course code - Po3 Academic Year-2018-19

SUBMITTED BY

MISS.PRIYANKA.R.KHOT

REG.NO: MC171820

INTERNAL GUIDE

Prof. S.P. SANSUDDI





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON EVALUATION OF FANANCIAL PERFORMANCE OF PADMAWATI FORGE PVT.LTD,KAGAL" is submitted by Miss. PRIYANKA R.KHOT (REG.NO: MC171820) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof.S.P.Sansuddi

Project Guide

MIPAN

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal
PRINCIPAL
G.I. Begewadi Arts, Science
Commerce College, NIPANI

A PROJECT REPORT ON

" A STUDY ON CAPITALIZATION AT SHREE HIRANYAKESHI SAHAKARI SAKKARE KARKHANE NIYAMIT SANKESHWAR"



VIDYASANGAMA

SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE COURSE CODE - PO3 Academic Year-2018-19

SUBMITTED BY

MISS. PUSHPALAXMI R. PUJARI REG.NO: MC171821

INTERNAL GUIDE
Prof. S.P.SANSUDDI





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CAPITALIZATION AT SHREE HIRANYAKESHI SAHAKARI SAKKARE KARKHANE NIYAMIT SANKESHWAR" is submitted by Miss. PUSHPALAXMI R.PUJARI(REG.NO: MC171821) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. S.P.Sansuddi

Project Guide

NIPANI B

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal

PRINCIPAL G.I. Bagewadi Arts. Science & Commerce College, NIPAN.

A PROJECT REPORT ON

"IMPACT OF JOB SATISFACTION ON PERFORMANCE OF EMPLOYEES- A CASE STUDY OF JINABAKUL FORGE PVT LTD. BELAGAVI."



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course Code - Do3 Academic Year-2018-19

SUBMITTED BY

MISS. RASHMI.M.NANDEPPANAVAR REG.NO: MC171822

> UNDER THE GUIDANCE OF Prof.S.P.SANSUDDI





G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "IMPACT OF SATISFACTION ON PERFORMANCE OF EMPLOYEES- A CASE STUDY OF JINABAKUL FORGE PVT LTD. BELAGAVI." is submitted by MISS.RASHMI.M.NANDEPPANAVAR (REG.NO: MC171822) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. S. A. Deshpande

Dr.M.B. Kothale

Project Guide

Co-Ordinator Co-ordinator P. G. [M.Com.]

Principal PRINCIPAL



K.L.E's G. I. B. College, Nipani. G.I. Bagewadi Arts, Science Commerce College, NIPAN

A PROJECT REPORT ON

" A STUDY ON INVENTORY MANAGEMENT AT SHREE D.K.SS.K.N.CHIKKODI"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF MASTER

OF COMMERCE COURSE CODE - DO3 Academic Year-2018-19

SUBMITTED BY

MR.RAVINDRA.A.HONNAMANI

REG.NO: MC171823

UNDER THE GUIDANCE OF Prof. S.P.SANSUDDI





G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON INVENTORY MANAGEMENT AT SHREE D.K.S.S.K.N.CHIKKODI" is submitted by Mr.Ravindra.A.Honnamani (REG.NO: MC171823) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. S.P.Sansuddi

Project Guide

Prof. S.A.Deshpande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
F.L.E's G. L.B. College, Nipani.

Dr.M.B.Kothale

Principal
PRINCIPAL

gewadi Arts Scient

GI. Bagewadi Arts, Science College, Nipari.



A PROJECT REPORT ON "A STUDY ON FUND FLOW STATEMENT AT SHRI DOODHAGANGA KRISHNA SAHAKARI SAKKARE KARKHANE NIYMIT, CHIKKODI"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE course code-DO3 Academic Year-2018-19

SUBMITTED BY

MISS. SEEMA L WADDAR REG.NO: MC171824

UNDER THE GUIDANCE OF

Prof. S.P. Sansuddi





K.L.E. SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,

NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled " A STUDY ON FUND FLOW STATEMENT AT SHRI DOODHAGANGA KRISHNA SAHAKARI SAKKARE KARKHANE NIYMIT, CHIKKODI" Is submitted by Miss. Seema L Waddar (REG.NO: MC171824) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in the Department of Commerce, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Banudo

Prof. S.A. Deshpande

Dr.MB.Kothale

Principal

Project Guide

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani.

PRINCIPAL G.I. Bagewadi Arts, Science & Commerce College, NIPANL

A PROJECT REPORT ON "A STUDY ON INVESTORS PERCEPTION TOWARDS INVESTMENT AVENUES IN HUKKERI AREA."



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE COURSE CODE - DO3 Academic Year-2018-19

SUBMITTED BY

MISS. SHAKTI A. MARAGALI REG.NO: MC171825

UNDER THE GUIDANCE OF Prof. PRIYANKA R. KAMATE





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled " A STUDY ON INVESTORS PERCEPTION TOWARDS INVESTMENT AVENUES IN HUKKERI AREA."

is submitted by MISS. SHAKTI A. MARAGALI (REG.NO: MC171825) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani .

Prof. Priyanka R. Kamate

Dr.M.B.Kothale

Project Guide

Co-Ordinator

Principal

P.G [M.Com.]

PRINCIPAL K L. E's G. L. B. College, Nipani, G.I. Bagewadi Arts, Science Commerce College, NIPA



A PROJECT REPORT ON

"A STUDY ON TO ANALYZE CHANGING CONSUMPTION PATTERN
OF CONSUMERS AT JYOTI BAZAR, EXAMBA"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE COURSE code - DO3 Academic Year-2018-19

SUBMITTED BY

Mr. SHRISHAIL R. KHOT REG.NO: MC171826

UNDER THE GUIDANCE OF

Prof. PRIYANKA R. KAMATE





G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled " A STUDY ON TO ANALYZE CHANGING CONSUMPTION PATTERN OF CONSUMERS AT JYOTI BAZAR, EXAMBA " is submitted by Mr. SHRISHAIL R. KHOT REG.NO: MC171826 in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. Priyanka R. Kamate

Prof. S.A.Deshpande

Dr.M.B.Kothale

Project Guide

P. G. [M.Com.] K.L.E's G. I. B. College, Nipani, Gl. Bagewadi Arts, Science

Principal PRINCIPAL Commerce College, NIPAN



A PROJECT REPORT ON "A STUDY ON COMPARATIVE ANALYSIS OF FINANCIAL STATEMENT AT SHRI BEERESHWAR CO-OP.CREDIT SOCIETY LTD., EXAMBA (Multi-State)



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF MASTER OF COMMERCE

Course Code -Do3 Academic Year-2018-19

SUBMITTED BY

Miss. SHRUTI .K. DESAI REG.NO: MC171827

UNDER THE GUIDANCE OF PROF. PRIYANKA .R. KAMATE





K.L.E. SOCIETY'S
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report . "A STUDY ON COMPARATIVE ANALYSIS OF FINANCIAL STATEMENT AT SHRI BEERESHWAR CO-OP.CREDIT SOCIETY LTD., EXAMBA (Multi-State)" is submitted by Miss. Shruti .K. Desai (REG.NO: MC171827) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

tame

Prof. P.R. Kamate

Project Guide

Prof. S.A.Deshpande

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Dr.M.B.Kothale

Principal

PRINCIPAL

G.I. Bagewadi Arts, Science Commerce College, NIPAN



A PROJECT REPORT ON

"A STUDY ON BRAND STRATEGIC PLAN FOR BHARATI AIRTEL LTD, CHIKODI."



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course Code- DO3 Academic Year-2018-19

SUBMITTED BY

MISS. SHUBHA M. MADANALLI REG.NO: MC171828

> UNDER THE GUIDANCE OF Prof. PRIYANKA R. KAMATE





G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON BRAND STRATEGIC PLAN FOR BHARATI AIRTEL LTD, CHIKODI" is submitted by Miss. SHUBHA M. MADANALLI (REG.NO: MC171828) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. Priyanka R. Kamate

Prof. S.A.Deshpande

Dr.M.B.Kothale

Project Guide

Co-Ordinator Co-ordinator P. G. [M.Com.] K.L.E's G. I. B. College, Nipani. Principal

PR!NCIPAL
G.I. Bagewadi Arts, Science &
Commerce College, NIPANI.



A PROJECT REPORT ON "A STUDY ON EFFECT OF ADEVRTISEMENT MESSAGE TOWARDS CONSUMER"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE COURSE Code - DO3 Academic Year-2018-19

SUBMITTED BY

Miss. Surekha Basappa Kumbar REG.NO: MC171829

UNDER THE GUIDANCE OF Prof. Priyanka. R. Kamate





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report "A STUDY ON EFFECT OF ADEVRTISEMENT MESSAGE TOWARDS CONSUMER" is submitted by Miss Surekha Kumbar (REG.NO: MC171829) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE's G.IB COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. Priyanka.R.Kamate

Prof. S.A.Deshpande

Project Guide

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.

Dr.M.B.Kothale

Principal

PRINCIPAL G.I. Bagewadi Arts, Science & Commerce College, NIPAN



A PROJECT REPORT ON

"A STUDY ON CUSTOMER ATTITUDE SURVEY TOWARD PATNJALI PRODUCT OF THE PATANJALI AROGYA KENDRA NIPANI"



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTER OF COMMERCE Course Code -Do3 Academic Year-2018-19

SUBMITTED BY

Miss, TASMIYA.M. BOJAGAR REG.NO: MC171830 under the guidance of Prof. PRIYANKA R. KAMATE





K.L.E. SOCIETY'S

G.LBAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE, NIPANI.

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled A STUDY ON CUSTOMER ATTITUDE SURVEY TOWIRDS PATANJALI PRODUCT OF THE PATANJALI AROGYA KENDRA GOURI AGENCIES NIPANI Is submitted by Miss. TASMIYA.M. BOJAGARIN (MC171830) partial fulfillment of the requirements for the award of degree of Master Of Commerce in the Department of Commerce, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.

Prof. Priyanka R. Kamate

Prof. S.A.Deshpande

Dr.M.B.Kothale

Project Guide

(NIPANI)

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.

Principal
PRINCIPAL
G.I. Begewadi Arts, Science &
Commerce College, NIPA II.

RANI CHANNAMMA

UNIVERSITY, BELAGAVI

Department of Mathematics

Syllabus

for

Master of Science in Mathematics

I to II Semester

(with effect from 2017 - 18)



Department of Mathematics

Choice based credit system (CBCS)

Con		

ŠI. No.	Paper & Title	Credit	No of Hrs/week Theory/ Practical	Duration of exam in Hrs Theory/ Practical	IA Marks Theory/ Practical	Marks at the Exams	Total Marks
Į Sem	ester						
1.1	Algebra -I	4	4	3 Hrs	20	80	100
1.2	Topology	4	4	3 Hrs	20	80	100
1,3	Real Analysis	4	4	3 Hrs	20	80	100
1.4	Linear Algebra	4	4	3 Hrs	20	80	100
1.5	Ordinary Differential Equations	4	4	3 Hrs	20	80	100
4.6	Discrete Mathematical Structures	4	4	3 Hirs	20	80	100
II Sen	lester						
2.1	Algebra – II	4	4	3 Hrs	20	80	.100
2.2	Complex Analysis	4	4	3 Hrs	20	80	100
2.3	Partial Differential Equations	4	4	3 Hrs	20	80	100
2.4	Functions of Several Variables	.4	4	3 Hrs	20	80	100
2.5	Classical Mechanics	4	4	3 Hrs	20	80	100
2.6	Open Elective Course I. Set Theory (Arts & Commerce stream) II. Integral Transforms (Science stream)	4	4	3 Hrs	20	80	100



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ш	Semester Department of P	viatņema	ITICS				
3.1	Measure Theory & Lebesgue Integration	- 4	4	3 His	20	80	100
3.2	Differential Geometry	4	4	3 Hrs	20	80	100
3.3	Numerical Analysis	4	4	3 Hrs	20	80	100
0.0	Elective- I			Ding	20		100
3.4	I. Mathematical Finance II. Fluid Mechanics III. Commutative Algebra IV. Coding Theory	4	4	3 Hrs	20	80	100
3.5	Elective- II I. Algebraic Topology II. Number Theory and Cryptology III. Fourier Analysis IV. Fuzzy Sets and Fuzzy Systems	4	4	3 Hrs	20	80	100
3.6	Open Elective Course I. Statistics (Arts & Commerce stream) II. Computational Methods (Science stream)	4	4	3 Hrs	20	80	100
ĮV 8	Semester						
4.1	Functional Analysis	4	4	3 Hrs	20	80	100
4.2	Mathematical Methods	4	4	3 Hrs	20	80	100
4.3	Probability Theory	4	4.	3 Hrs	20	80	100
4.4	Elective-I I. Riemannian Geometry II. Advance Graph Theory III. Mathematical modeling IV. Galois Theory	4	4	3 Hrs	20	80	100
4.5	Elective-II I. Advanced Numerical Methods II. Banach Algebra III. Operations Research IV. Computation Complexity	4	4	3 Hrs	20	80	100
4.6	Project	·.4	The candidate shall submit a dissertation carrying 80 marks and appear for viva-voce carrying 20 marks				100
	Total	96					2400



Department of Mathematics

4.6 PROJECT

The candidate shall submit a dissertation carrying 80 marks and appear for vivavoce carrying 20 marks.



RANI CHANNAMMA UNIVERSITY BELAGAVI-590 014



A PROJECT REPORT ON "MATHEMATICAL METHODS AND ITS APPLICATIONS"

SUBMITTED BY

MISS TEJASHVINI D.ASODE Reg. No: MT171214 Course code - D120

IN PARTIAL FULFILMENT OF

MASTERS OF SCIENCE (M.Sc. Mathematics)

Academic Year 2018-19

Under Guidance of

DR.(SMT.). M. M. SHANKRIKOPP M.Sc., PhD

PROF. MISS L.D.MATRANNAVAR
M.Sc.

SUBMITTED TO





DEPARTMENT OF MATHEMATICS

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE NIPANI-591237.

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE NIPANI-591237.

(ACCRIGATED AT 'A' LEVEL BY NAAC IN III-CYCLE WITH CGPA 3.35)





Certificate

This is to Certify that project carried out by MISS TEJASHVINI D.ASODE Reg No: MT171214 bonafide student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of Master of Science in Mathematics of the Rani Channamma University, Belagavi during the year 2018-19. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Miss L.D.Mantrannavar Dr.(Smt.) M.M. Shankrikopp Dr. M. B. Kothale

Guide Coordinato Head

Department of Mathematics

PRINCIPAL K LE. Society's

Principal

Examiner Name and Sign K.L.E's G. I. B. College, Nipani. G. I. Bagewadi College. North

2.

19.7.19

RANI CHANNAMMA UNIVERSITY BELAGAVI-590 014



A PROJECT REPORT ON "CONFORMAL MAPPING AND ITS APPLICATIONS"

SUBMITTED BY

MISS NIKITA S. JADHAV
Reg. No: MT171208
Course code - D120

IN PARTIAL FULFILMENT OF

MASTERS OF SCIENCE (M.Sc. Mathematics)

Academic Year 2018-19

Under Guidance of

DR.(SMT.). M. M. SHANKRIKOPP
M.Sc., PhD

PROF. MISS S. K. PATIL M.Sc., B. Ed.

SUBMITTED TO





DEPARTMENT OF MATHEMATICS

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE NIPANI-591237.

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE NIPANI-591237.

(ACCRIGATED AT 'A' LEVEL BY NAAC IN III-CYCLE WITH CGPA 3.35)





Certificate

This is to Certify that project carried out by MISS. NIKITA S. JADHAV. Reg No: MT171208 bonafide student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of Master of Science in Mathematics of the Rani Channamma University, Belagavi during the year 2018-19. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Miss S. K. Patil Guide

Dr.(Smt.). M.M. Shankrikopp Coordinator

Department of Mathematics K.L.E's G. I. B. College, Nipani.

Dr. M. B. Kothale Principal

PRINCIPAL

KLE. Society's G. L. Bagewadi College, Nipani

Examiner Name and Sign

RANI CHANNAMMA UNIVERSITY BELAGAVI-590 014



A PROJECT REPORT ON "RING THEORY AND ITS APPLICATIONS"

SUBMITTED BY

MISS. SUKANYA.M. MADANNAVAR

Reg. No: MT171213

COURSE COde - D120

IN PARTIAL FULFILMENT OF

MASTERS OF SCIENCE (M.Sc. Mathematics)

Academic Year 2018-19

Under Guidance of

DR. (SMT). M. M. SHANKRIKOPP M.Sc., PhD

PROF. J.N. MAGADUM M.Sc. B.Ed

SUBMITTED TO





DEPARTMENT OF MATHEMATICS

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE NIPANI-591237.

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE NIPANI-591237.

(ACCRIGATED AT 'A' LEVEL BY NAAC IN III-CYCLE WITH CGPA 3.35)





This is to Certify that project carried out by MISS SUKANYA M. MADANNAVAR Reg No: MT171213 bonafide student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of Master of Science in Mathematics of the Rani Channamma University, Belagavi during the year 2018-19. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

PROF.J. N. Magadum Guide

Dr. (Smt.). M.M. Shankrikopp

Coordinaterd
Department of Mathematics K.L.E's G. I. B. College, Nipani.

Principal PRINCIPAL KLE. Society's

& L Bagewadi College, MpaniL

Examiner Name and Sign

RANI CHANNAMMA UNIVERSITY BELAGAVI-590 014



A PROJECT REPORT ON "APPLICATIONS OF NUMBER THEORY"

SUBMITTED BY

MISS. ARCHANA A. SHINTRE Reg. No: MT171202

Course code - D120

IN PARTIAL FULFILMENT OF

MASTERS OF SCIENCE (M.Sc. Mathematics)

Academic Year 2018-19

Under Guidance of

DR.(SMT.). M. M. SHANKRIKOPP M.Sc., PhD

PROF. J. N. MAGADUM

M.Sc. B.Ed

SUBMITTED TO





DEPARTMENT OF MATHEMATICS

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE NIPANI-591237.

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE NIPANI-591237.

(ACCRIGATED AT 'A' LEVEL BY NAAC IN III-CYCLE WITH CGPA 3.35)





Certificate

This is to Certify that project carried out by MISS.ARCHANA A. SHINTRE. Reg No: MT171202 bonafide student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of Master of Science in Mathematics of the Rani Channamma University, Belagavi during the year 2018-19. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

9/06/19 PROF. J.N.Magadum

Dr.(Smt.) M.M. Shankrikopp

Dr. M. B. Principal AL

Guide

Coordinator

Department of Mathematics K.L.E's G. I. B. College, Nipani.

K.L.E. Society's G. L. Bagewadi Coiloge, NipacL

Examiner Name and Sign

RANI CHANNAMMA UNIVERSITY BELAGAVI-590 014



A PROJECT REPORT ON "APPLICATIONS OF GRAPHS IN NETWORKING"

SUBMITTED BY

MISS JYOTI M. PATIL

Reg. No: MT171205

COURSE CODE - D120
IN PARTIAL FULFILMENT OF

MASTERS OF SCIENCE (M.Sc. Mathematics)

Academic Year 2018-19

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP
M.Sc., PhD

PROF. Mr. S. A. CHOUGALE M.Sc., B. Ed.

SUBMITTED TO





DEPARTMENT OF MATHEMATICS

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE NIPANI-591237.

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE NIPANI-591237.

(ACCRIGATED AT 'A' LEVEL BY NAAC IN III-CYCLE WITH CGPA 3.35)





<u>Certificate</u>

This is to Certify that project carried out by MISS JYOTI M. PATIL Reg No: MT171205 bonafide student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of Master of Science in Mathematics of the Rani Channamma University, Belagavi during the year 2018-19. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

31/05/2019

Guide

S. A. Chougale

Dr. (Smt.). M.M. Shankrikopp

90 1916/19

Coordingto

Department of Mathematics

Dr. M. B. Kothale

Principal PRINCIPAL K.L.E. Society's

K.L.E's G. I. B. College, Nipani, Bayewadi College, Nipani.

Examiner Name and Sign

RANI CHANNAMMA UNIVERSITY BELAGAVI-590 014



A PROJECT REPORT ON "APPLICATIONS OF GRAPHS IN NETWORKING"

SUBMITTED BY

MISS SHWETA V. CHOUGALE

Reg. No: MT171212

course code - D120

IN PARTIAL FULFILMENT OF

MASTERS OF SCIENCE (M.Sc. Mathematics)

Academic Year 2018-19

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP M.Sc., PhD

PROF. Mr. S. A. CHOUGALE M.Sc., B. Ed.

SUBMITTED TO





DEPARTMENT OF MATHEMATICS

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE NIPANI-591237.

K. L. E. Society's

G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE NIPANI-591237.

(ACCRIGATED AT 'A' LEVEL BY NAAC IN III-CYCLE WITH CGPA 3.35)





Certificate

This is to Certify that project carried out by MISS SHWETA V. CHOUGALE Reg No: MT171212 bonafide student of G. I. Bagewadi partial fulfillment for the College, PG center Nipani, in Master of Science in Mathematics of the Rani Channamma University, Belagavi during the year 2018-19. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Guide

Mr. S. A. Chougale Dr. (Smt.). M.M. Shankrikopp

Coordinator Head

Department of Mathematics

10/19/6/19

Examiner Name and Sign.E's G. I. B. College, Nipani.

Dr. M. B. Kothale

Principal

PRINCIPAL KLE. Society's

G. I. Bagewadi College, Nipa

Group - II

OPTIONAL / COMPULSORY SUBJECT FOR THE DEGREE IN SCIENCE SUBJECTS

Science Subjects: (any three subject of equal importance to be chosen as per the grouping given by Rani Channamma University, Belagavi)

DETAILED SYLLABUS OF FOLLOWING PAPERS WITH PRACTICALS

1. BOTANY (optional)

Unit III: Plant Pathology

B.Sc. III Semester (w.e.f: 2018 - 19) and onwards.

Subject: BOTANY (optional)

Paper-: Diversity of Cryptogams (Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms).

Unit I: Algae

52 Hrs 10 hrs.

General characters, Pigmentation, Classification by Fritsch (up to class level). Distribution, thallus structure, reproduction and life cycle of Nostoc, Volvox, Oedogonium, Sargassum and Batrachospermum. Economic Importance.

Unit II: Fungi 06 hrs.

General characters, Classification (Alexopoulus's system). Distribution, Structure, Reproduction and life cycle of Albugo, Rhizopus, Penicillium and Puccinia. Economic importance of fungi, General account of lichens.

O6 hrs.

General account of Bacteria and Viruses. Introduction and general symptoms of plant diseases. Symptoms, Pathogens and control measures of Late blight of potato, White rust of crucifers, Tikka disease of ground nut.

Unit IV: Bryophytes 06 hrs.

General characters, Classification (Smith). Structure, reproduction and schematic life cycle of Riccia, Anthoceros and Funaria. (Developmental details are not expected). Evolution of sporophytes.

Unit V: Ptredophytes 10 hrs.

General characters and classification. Distribution, Structure (External and Internal) and Reproduction of Psilotum, Selaginella, Equisetum and Nephrolepis (Developmental details are not expected). Stelar evolution. Heterospory and seed habit

Unit VI: Gymnosperms

General characters and classification: Distribution, Structure (External and Internal) and Reproduction of Cycas, Pinus and Grietum(Developmental details are not expected).

Unit VII: Paleobotany 04 hrs.

Geological time scale, fossilization-molds, Impression, Petrification and cast. Study of fossils - Calamitis, Lepidodendron, Lygenopteris.



B.Sc. III Semester practicals

Total number of hours per week: 04, Internal Assessment=10 Marks, Max Marks: 40 Marks

- Vegetative and reproductive structures of Nostoc, Volvox and Oedogonium.
- 2. Vegetative and reproductive structures of Sargassum and Batrachospermum
- 3. Vegetative, reproductive structures and disease symptoms of Albugo, Rhizopus and Penicillium.
- 4. Vegetative, reproductive structures and disease symptoms of Puccinia. Lichens
- 5. Study of Vegetafive and Reproductive structures of Riccia, Anthoceros and Funeria.
- 6. Study of Vegetative and Reproductive structures of Psilotum and Selaginella.
- 7. Study of Vegetative and Reproductive structures of Equisetum and Nephrolepis.
- Study of Vegetative and Reproductive structures of Cycas, Pinus and Gnetum.
- 9. Disease symptoms and control measures of Late blight of potato, Black rust of Wheat, Tikka disease of ground nut.
- 10. Paleobotany- Study of fossils Lépidodendron, Calamitis, Lygenopteris.
- 11. Field visits.

Suggested Readings:

Smith G.M.1971 vol 1 Algae and fungl. Tata McGraw HILL Publishing company New Delhi Sharma O.P. 1992 Text book of thallophytes McGraw Hill Publication Sharma P.D. 1991 The fungi Rastogi and Co Meerut

Dubey H.C.1990An Introduction to Fungi Vikas Publishing House Pvt Ltd. Dehli Clifton, A 1958 Introduction to Bacteria McGraw Hill and Co New York

Basu A.N.1993 Essentials of plant viruses, vectors plant diseases New Age International New Dehli. Chopra G.L. A text book of algae Rastogi and co Meerut

Rangaswami G 1998 Diseases of crop plants in India. Prentice Hall of India New Delhi, Sunderrajan S 1997 College Botany Vol 1, S, Chand and Co Ltd New Dehli Alexopoulus, 1992 An Introduction to Mycology. New Age International, New Dehli Vashista B.R. 1978 Fungi, S. Chand and co. Ltd. New Delhi.

B.Sc. III Semester **Botany Practical Examination**

Time: 4 Hours	Max Marks: 40
Q1: identify and classify specimens A, B, C giving reasons.	09enarks
Q2: Identify and explain the internal structures of specimen D and E with the neat labelled	diagrams
(Show the preparation to the examiner)	10 marks
Q 3: Identify & describe the salient features in the slides/ specimens E, F, G, H, I and J	12 marks
Q4: Identify & describe the salient features in the fossil specimen K.	03 marks
Journal	04 marks
Field visit report	03 marks





G. L. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 [Accredited at 'A' level by NAAC with CGPA 3.35 in 3rd Cycle]

Websites www.klegibeoilege.com

Ph: 08338-220116, 220416

E-mail: klegibnbotany@gmail.com

Ref.: E:/E/Study tour

DEPARTMENT OF BOTANY

Date: 26.09.2018

Report on Study Tour/Field Visit for the year 2018-19

Botany							
One day visit to Castle Rock							
To study and collect cryptogamic plants							
22.09.2018							
Dr.S.D.Payamalle, Ms. P.B.Meghannavar							
III semester Botany students							
Total	63	Teachers	4	Students	59	Others	
To Study nursery techniques To Study natural Vegetation							
Students were able to see the organization of garden plants and						s and	
	One da To stud 22.09.2 Dr.S.D III sen Total To Stu- To Studen	One day visit To study and 22.09.2018 Dr.S.D.Payar III semester Total 63 To Study nur To Study nat Students wer	One day visit to Castle Ro To study and collect crypt 22.09.2018 Dr.S.D.Payamalle, Ms. P. Ill semester Botany stude Total 63 Teachers To Study nursery technique To Study natural Vegetati Students were able to see	One day visit to Castle Rock To study and collect cryptogami 22.09.2018 Dr.S.D.Payamalle, Ms. P.B.Meg III semester Botany students Total 63 Teachers 4 To Study nursery techniques To Study natural Vegetation Students were able to see the collection	One day visit to Castle Rock To study and collect cryptogamic plants 22.09.2018 Dr.S.D.Payamalle, Ms. P.B.Meghannavar III semester Botany students Total 63 Teachers 4 Students To Study nursery techniques To Study natural Vegetation Students were able to see the organization	One day visit to Castle Rock To study and collect cryptogamic plants 22.09.2018 Dr.S.D.Payamalle, Ms. P.B.Meghannavar III semester Botany students Total 63 Teachers 4 Students 59 To Study nursery techniques To Study natural Vegetation	One day visit to Castle Rock To study and collect cryptogamic plants 22.09.2018 Dr.S.D.Payamalle, Ms. P.B.Meghannavar III semester Botany students Total 63 Teachers 4 Students 59 Others To Study nursery techniques To Study natural Vegetation Students were able to see the organization of garden plants

Photo Gallery





Department of Botany
G. I. Bagewadi College, Nipani.

IQAC Coordinator
Co-ordinator IQAC
K. L. E. Society's
G. L. Bagewadi College, Nipani.

PRINCIPAL
PRINCIPAL
G.L. Bagewadi Arts, Science &
Commerce College, NIPANI.



G. I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 [Accredited at 'A' level by NAAC with CGPA 3.35 in 3rd Cycle]

Website: www.klepibcollege.com

Ph: 08338-220116, 220416

E-mail: klegibnbotany@gmail.com

DEPARTMENT OF BOTANY

Date: 15.09.2018

To,

The Principal, KLES G I Bagewadi College Nipanl.

Sub: Seeking permission to conduct study tour Reg.

Respected Sir,

As per the RCU Belagavi BSc III Sem Syllabus there is study tour for BSc III Semester Students. Accordingly the department of botany has organised One day study tour to Castle rock and Anmode on 22.09.2018. Hence, I request you kindly permit us to conduct the study tour. Two Faculty members of Botany department will accompany the students.

Thanking You

Yours Sincerely

Department of Butany
G. I. Bagewadi College, Nipani.

G.I. Bagewedi Arts, Science & Commerce College, NIPANI.



G. I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 [Accredited at 'A' level by NAAC with CGPA 3.35 in 3" Cycle]

Website: www.klezibeollege.com

Ph: 08338-220116, 220416

E-mail: kleefhnbotany@email.com

Ref:. Bot/E:/E:/CR I/ Study Tour

Date:22.09.2018

DEPARTMENT OF BOTANY

S.No	Year	Places visited	Class.	Days	No. of students	Staff in charge
1,	2018-19	Castle Rock	III Sem	1 Day	59	70.00
			*** 66711	1 Day	39	Dr.S.D.Payamalle Ms. P.B.Meghannavar

Sl.No	IV sem students' List 2018-19	5l.No	IV sem students' List 2018-1
1	Abhinandan Kolapure	31	Pratiksha Suryavamshi
2	Abhishek Magadum	32	Pravin Chougala
3	Aishwarya Killedar	33	Prithviraj Narayankar
4	Aishwarya Punde	34	Priyanka Palakar
5	Akshay Magadum	35	Pushpadant Upadhye
6	Anil Bhingare	36	Rachana Tandale
7	Chetana Belavi	37	Ramizraja Makandar
8	Chinmayl Indi	38	Rohini Tharapatti
9	Daksha Patel	39	Rutuja Patil
10	Gurunath Arekar	40	Sabil Makandar
11	Janhavi Bhatale	41	Sachin Badakar
12	Kajal Bhoite	42	Samiksha Gibise
13	Kamartaj Khanapure	43	Sana Soudagar
14	Kashinath Savantre	44	Saniya Awate
15	Kenchappa Nasalapure	45	Sanjeevini Hasure
16	Madhuri Bhivase	46	Sanket Jadhav
17	Masum Panawale	47	Santosh Adake
18	Meenakshi Guray	48	Sayyam Havale
19	Megha Sumbad	49	Seema Datawade
20	Nandini Shiraganye	50	Shahida Desai
21	Neha Kadakane	51	Shubham Kodane
22	Neha Patil	.52	Soujanya Kamate
23	Nikhita Havale	53	Sourabh Pujari
24	Nikita Magadum	54	Sumit Chougule
25	Parshwajeet Patil	55	Swati Tawadare
26	Pavan Payamalle	56	Umesh Pujari
27	Pooja Kesarkar	57	
28	Prajakta Bachane	58	Yogesh Pujari
29	Prajakta Patil	59	Zainabi Langoti
30	Pranjali Potadar	33	Rohan Manjarekar



Co-ordinator IOAC
K. L. E. Society's G. I. Bagewadi College, Nipani.

GI, Bagewadi Arts, Science & Commerce College, NIPANI.

Group - II

OPTIONAL / COMPULSORY SUBJECT FOR THE DEGREE IN SCIENCE SUBJECTS

RANI CHANNAMMA UNIVERSITY, BELAGAVI.

B.Sc. IV Semester (w.e.f: 2018 - 19) and onwards.

Subject: BOTANY (optional)

Paper: Diversity of Angiosperms and their systematics, Economic botany and

Medicinal botany

52 hrs."

Unit I: Morphology of Angiosperms:

07 hrs.

Study of stems and its modifications, Leaf- types, stipules, Phyllotaxy and their modifications. Study of Inflorescences, flowers (Floral formula and

Floral diagram to be included) and fruits.

10 hrs.

Unit II: Angiosperm systematics:
Botanical nomenclature- principles andrules,

taxonomic ranks, type concept and principle of priority. Botanical survey of India.

Classification of Angiosperms: Systems proposed by Bentham and Hooker,

EnglerPrantl. Theirsalient features, merits and demerits.

Brief account of APG classification.

Contributions of Cytology (Cytotaxonomy), Phytochemistry (Chemotaxonomy) and

Taximetrics (Numerical taxonomy) to taxonomy.

Unit III: Diversity of flowering plants as illustrated by members of the

20hrs

following families:

Annonaceae, Brassicaceae, Malvaceae, Rutaceae, Rhamnaceae,

Fabaceae, Myrtaceae, Combretaceae, Cucurbitaceae, Apiceae, Rubiaceae,

Asteraceae, Apocyanaceae, Asclepiadaceae, Convolvulaceae, Solanaceae,

Acanthaceae, Verbenaceae, Lamiaceae, Amaranthaceae, Euphorbiaceae,

Orchidaceae, Liliaceae, Arecaceae and Poaceae.

Unit IV: Economic Botany:

10 hrs

Origin&Distribution,Family, Botanical name and utility of following plants-

Food plants: Rice, Wheat, Maize, Pulses (Bengal gram, Pigeon pea) and Sugarcane

Fibres: Cotton, Jute.

Oil yielding plants: Ground nut, Sunflower, Palm oil, Sandalwood and Citronella oils

Paper &pulp: Bamboo& Eucalyptus

Spices: Ginger, Clove, Cinnamom, Asafoetida and Cardamom

Beverages: Tea & Coffee

Rubber: Hevea sp.

Unit V: Medicinal botany:

05hrs

Common medicinal plants in primary health care: -

Tippateega (Tinosporacordifolia), Tulsi (Oscimumsanctum) Kalabanda (Aloe-vera)

Turrmeric (Curcuma longa) Ashwagandha (Withaniasomnifera) and Sarpagandha

(Rauwolfiaserpentina)

Practicals:-

- 1. Morphology of Root, Stem, Leaf and their modifications.
- 2 .Study of Inflorescence and its types.
- 3. Study of Flower-I- Descriptive terms, Thalamus, Calyx, Corolla and Aestivation.
- 4. Study of Flower-II -Androecium and Gynoecium. Floral formula and Floral diagram.

Study of Fruit types.

- 6. Study of any 18 families representing from polypetalae, gamopetalae, apatalae and monocots available in the locality.
- 8. Economic botany and Study of Medicinal Plants (as per syllabus) available in the locality.
- 9. Study Tour for minimum Two days to study the Flora (Taxonomy).

Suggested readings:

- 1. Davis, P.H.and Heywood, V.H.1963. Principles of angiosperm taxonomy. Oliver and boyd, London.
- 2. Heywood, V.H. and moore, D.M. (EDS) 1984. Current concepts in plant taxonomy academic press, London

3. Jeffery, C.1982. An introduction to plant taxonomy. Cambridge university press, cambridge, London.

- 4. Jones, S.B.Jr and luchsinger, A.E. 1986. Plant systematics (2nd edition). McGraw Hill book co. newyork.
- 5. Radford, A.E.1986. Fundamentals of plant systematics. Harper and Row, newyork.
- 6. Singh, G. 1999. Plant systematics; theory and practice. Oxford and IBH, newdelhi.
- 7. Atace, C.A.1989. Plant taxonomy and bio systematics (2nd edition). Edward Arnold, London.
- 8. Dutta.S.C.1988.systematic botany.walleyeastern,newdelhi.
- 9. Jaques, H.E.1999, Plant families- how to know them. IBS, newdelhi.
- 10. Lawrence, G.H.M.1951. Taxonomy of vascular plants. Macmillan, newdelhi.
- 11. Stewart.W.M 1983.Paleobotony and the evolution of plants, cambridge university press, cambridge.
- 12. Joshi S.G. medicinal plants oxford and IBH newdelhi.
- 13. Kokate and Gokeale _pharmacognacy. Neralipublication,newdelhi.
- 14. Lad v Ayurveda- the scince of self-healing- motilalbanarasidas,newdelhi.
- 15. Lewis W.H.and M.P,F Elwin Lewis 1976, medical Botony plants affecting maris health. A wileyinterscince publication, Jhonwilley and sons newyork.
- 16. College botany vol 1 by Gangulee, Das and Datta. New central book agency, Calcutta.
- 17. Systematic botany by R.N Sutaria.
- 18. Taxonomy of Angiosperms by B.P.Pandey.
- 19 .Kocchar, S.L. 1998. Economic Botany in Tropics. 2nd edition, Macmillian Ltd, New Delhi.
- 20 .Sambamurthy, A.V.S.S and subramanyam, N.S. 1989. A Text Book of Economic Botany, Wiley Eastern Ltd. New Delhi .
- 21. Sharma, O.P.1996. Hill's Economic Botany. Tata McGraw Hill Co., Ltd., NewDelhi.
- 22. Simpson, B.B. and Conner-Ogorzaly, M. 1986. Economic Botany-plants in our world. McGraw Hill, New York.
- 23, Hill. A.F. 1989. Economic Botany. Tata McGraw-Hill, New York.
- 24. Herbs Cultivation and Medicinal Uses- H. Panda NIIR Publication, New Delhi.
- 25. Chopra R.N., Badhuvar R.L. & Ghosh G. (1965) Poisons Plant of India.



G. I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 [Accredited at 'A' level by NAAC with CGPA 3.35 in 3rd Cycle]

Website: www.klegibcollege.com

Ph: 08338-220116, 220416

E-mail: klegibnbotany@gmail.com

Ref.: E:/E/Study tour

DEPARTMENT OF BOTANY

Date: 26.02.2019

Report on Study Tour/Field Visit for the year 2018-19

Name of the Department	Botany							
Name of the Event Organized	One da	One day visit to Nursery						
Title of the Event	Visit to Malakapur nursery, Panhal Ghad, Kolhapur.							
Date of the Event Organized	24.02.2019							
Name of the faculty accompanied	Smt. S.B.Patil, Smt. S.S.Sunnal, Dr.S.D.Payamalle Ms. P.B.Meghannavar							
Participants	IV semester Botany students							
No. of Participants	Total	63	Teachers	4	Students	59	Others	
Objectives of the Event	To Study nursery techniques To Study natural Vegetation							
Outcome of the Event	Students were able to see the organization of garden plants and learnt green house and shade house technology						s and	

Photo Gallery





HOD HEAD Department of Botany G. I. Bagewadi College, Nipani.

IQAC Coordinator

Co-ordinator IQAC

K. L. E. Society's

G. I. Bagewadi College, Nipani.

PRINCIPAL
PRINCIPAL
Sil. Bägewadi Arts, Science &
Cottimerce College, NiPANI



G. I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 (Accredited at 'A' level by NAAC with CGPA 3.35 in 3rd Cycle)

Websiter www.klevibeofleve.com

Ph: 08338-220116, 220416

E-mail: klegibubotany@gmail.com

DEPARTMENT OF BOTANY

Date: 22/02/2019

To,

The Principal, KLES G I Bagewadi College Nipani.

Sub: Seeking permission to conduct study four for BSc IV Sem.

Respected Sir,

As per the RCU Belagavi BSc IV Sem Syllabus there is study tour for BSc IV Semester Students. Accordingly the department of botany has organised one day study tour on 24th February 2019. The places such as Shailesh Nursery Manakapur, Panhal Gad, and Kolhapur are to be visited. Hence, I request you kindly permit us to conduct the study tour. Faculty and gardeners of the Botany department will accompany the students.

Thanking You

Yours Sincerely

HODHead

Department of Botany

K.L.E's G. I. B. College, Nipani.

1 kle 22/2



G. I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 [Accredited at 'A' level by NAAC with CGPA 3.35 in 3rd Cycle]

Website: www.klegibcollege.com

Ph: 08338-220116, 220416

E-mail: <u>ಟೇஜibubotany@ஜாச்சி.com</u>

Ref: Bot/E:/E:/CR // Study Tour

Date:22.09.2018

DEPARTMENT OF BOTANY

S.No	Year	Places visited	Class	Days	No. of students	Staff in charge
.1.	2018-19	Malakapur nursery, Panhal Ghad, Kolhapur.	III Sem	i Day	59	Dr.S.D.Payamalle Ms. P.B.Meghannavar

SI.No	!V sem students' List 2018-19	Sl.No	fV sem students' List 2018-19
1	Abhinandan Kolapure	31	Pratiksha Suryavamshi
2	Abhishek Magadum	32	Pravin Chougala
3	Aishwarya Killedar	33	Prithviraj Narayankar
4	Aishwarya Punde	34	Priyanka Palakar
5	Akshay Magadum	35	Pushpadant Upadhye
6	Anil Bhingare	36	Rachana Tandale
7	Chetana Belavi	37	Ramizraja Makandar
8	Chinmayi Indi	38	Rohini Tharapatti
9	Daksha Patei	39	Rutuja Patil
10	Gurunath Arekar	40	Sabil Makandar
11	Janhavi Bhatale	41	Sachin Badakar
12	Kajal Bholte	42	Samiksha Gibise
13	Kamartaj Khanapure	43	Sana Soudagar
14	Kashinath Savantre	44	Saniya Awate
15	Kenchappa Nasalapure	45	Sanjeevini Hasure
16	Madhuri Bhiyase	46	Sanket Jadhay
17	Masum Panawale	47	Santosh Adake
18	Meenakshi Gurav	48	Sayyam Havale
19	Megha Sumbad	49	Seema Datawade
20	Nandini Shiraganye	50	Shahida Desai
21	Neha Kadakane	51	Shubham Kodane
22	Néha Patil	52	Soujanya Kamate
23	Nikhita Havale	53	Sourabh Pujari
24	Nikita Magadum	54	Sumit Chougule
25	Parshwajeet Patil	55	Swati Tawadare
26	Pavan Payamalle	56	Umesh Pujari
27	Pooja Kesarkar	57	Yogesh Pujari
28	Prajakta Bachane	58	Zalnabi Langoti
29	Prajakta Patil	59	Rohan Manjarekar
30	Pranjali Potadar		

G. I. Bagewadi College, Nipani.

Co-ordinator IQAC
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G. I. Bagewadi College, Nipani.

PRINCIPAL
G.I. Bagewodi Arts, Science &
Cammerce College, NIPANI.

B.Sc. V Semester (w.e.f: 2016 - 17) Botany Paper - I

Paper-I: Plant Breeding, Tissue Culture & Horticultural Practices. 50 Hrs

Objectives: This paper includes some topics in horticulture like- Nursery, Green House Technology, Harvest and Weed Management. These will be of much help to the students residing in rural and urban areas to generate employment.

Unit 1: Plant Breeding: History and objectives. Introduction, Selection (Pure line, Mass election), Hybridization- inter specific and inter generic. Mutational & Polyploidy breeding. Germ plasm and its maintenance. Pollen Bank, Quarantine method.

10 Hrs.

Unit 2: Plant Tissue Culture: Scope and Significance. Basic Aspects and Cellular totipotency (Shoot tip, Embryo and Haploid culture techniques). Differentiation and morphogenesis. 10 Hrs.

Unit 3: Introduction to Hortfculture, Nursery management and importance.

Methods of propagation – vegetative – rhizome, bulb, corm and sucker (natural).

Artificial- Cutting, layering, grafting and budding. Bonsai – methods and importance.

Nursery management: Introduction, types of nurseries and cultural practices. Seed (propagule) collection, storage and treatment. Manures, fertilizers and pesticides. Methods of irrigation – drip, sprinkler and flood.

12 Hrs.

Unit 4: Green House Technology - Introduction, advantages and limitations.

Types of Green Houses- Green House structure, principle

Green house technology as applied to ornamental, vegetable and fruit plants.

08 Hrs.

Unit 5: Harvest Technology and Weed Management:

Harvest Technology: Flower and fruit plants management. Artificial ripening, maturity indices, methods of picking. Post-harvest technology and management of fruits: grading, processing, storage and packing.

Weed Management: Introduction and significance. Invasive weeds – concept and causes of their dominance. Weed control – physical, chemical and biological methods.

10 Hrs.

Practicals:

- 1. Study of methods of propagation with help of tubers, bulbs rhizomes, corms, suckers, runner and offset.
- Study of propagation by cutting, layering, grafting and budding.
- 3. Methods of emasculation and bagging for cross-pollination.
- 4. Morphology and anatomy of dry and wet stigma.
- 5. Morphology and anatomy of solid and hollow styles.
- 6. Study of pollination types.
- 7. Demonstration of tissue culture techniques.
- 8. Visit to nursery poly house /Green house and tissue culture lab.
- 9. Preparation of MS media for culture.
- 10. Bonsai techniques.





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Website: www.klegibcollege.com

Ph: 08338-220116, 220416

E-mail: klegibnhotany@gmail.com

Ref.: E:/E/Study tour

DEPARTMENT OF BOTANY

Date: 26.09.2018

Report on Study Tour/Field Visit for the year 2018-19

Botany							
One day visit to Study Plant varieties and sps							_
Visit to Krushi mela And Agri University, Dharwad							
24.09.2018							
Smt. S.B.Patil, Dr.S.D.Payamalle and Ms. Afreen Maniyar							
V semester Botany Students							
Total	40	Teachers	3	Students	37	Others	
To obs	erve v	arieties of or	name	ntal plants and	limpr	oved variet	ies
Students observed varieties ornamental plants and improved varieties							
	One da Visit to 24.09.2 Smt. S. V sem Total To obse Student	One day visit Visit to Krus 24.09.2018 Smt. S.B.Pati V semester I Total 40 To observe vi	One day visit to Study Pl Visit to Krushi mela And 24.09.2018 Smt. S.B.Patil, Dr.S.D.Pa V semester Botany Stud Total 40 Teachers To observe varieties of or Students observed varieties	One day visit to Study Plant value Visit to Krushi mela And Agr. 24.09.2018 Smt. S.B.Patil, Dr.S.D.Payama. V semester Botany Students Total 40 Teachers 3 To observe varieties of ornamer Students observed varieties	One day visit to Study Plant varieties and sp Visit to Krushi mela And Agri University, I 24.09.2018 Smt. S.B.Patil, Dr.S.D.Payamalle and Ms. Af V semester Botany Students Total 40 Teachers 3 Students To observe varieties of ornamental plants and Students observed varieties ornamental	One day visit to Study Plant varieties and sps Visit to Krushi mela And Agri University, Dharw 24.09.2018 Smt. S.B.Patil, Dr.S.D.Payamalle and Ms. Afreen I V semester Botany Students Total 40 Teachers 3 Students 37 To observe varieties of ornamental plants and impr Students observed varieties ornamental plants	One day visit to Study Plant varieties and sps Visit to Krushi mela And Agri University, Dharwad 24.09.2018 Smt. S.B.Patil, Dr.S.D.Payamalle and Ms. Afreen Maniyar V semester Botany Students Total 40 Teachers 3 Students 37 Others To observe varieties of ornamental plants and improved variet Students observed varieties ornamental plants and improved variet

Photo Gallery





HOD HEAD Department of Botony Q 1 Bagewadi College, Nipani.

IQAC Coordinator
Co-ordinator IQAC
K. L. E. Society's
G. I. Bagewadi College, Nipani.

PRINCIPAL
PRINCIPAL
G.I. Bagewadi Arts, Science &
Commerce College, NIPANI.

(9)

From,

The HOD

Department of Botany

KLE's G. I. Bagewadi College Nipani

To,

The Principal,

KLE's G. I. Bagewadi College Nipani

Sub-Permission for one day trip

As per the RCUB BSc V sem syllabus, there is a compulsary study tour BSc V sem students. After discussing with staff and HOD of Botany, it is decided to visit Dharwad Agri University and Karnatak University Dharwad on 24th September 2018. So we request you to give us permission for the same.

For your kind information the list of the students and accompanying staff is attached.

Thanking you

Yours faithfully

Date:22/9/2018

Department of Botony
G. I. Bagewadi College, Nipani.

G.I.Bagewadi Arts, Science & Commerce College, Nipani

List of the Students

Sl. No.	Roll No.	Student Name	Contact Number
1.	91 Abhishek chougule		9152000166
2.	93	Arati Gore	7204959914
3.	94	Asharafali Barger	8073614968
4.	95	Chaitali Hegade	8880459545
5.	96	Chaitra Hasure	988034944
6.	97	Devyani Khot	7338231273
7.	98	Dhanshri Hasure	872242354
8.	99	Dhanshri Chalake	924237228
9.	100	Dhanashri Patil	9686904809
10.	101	Digvijay Nigaye	735372757
11.	102	Divya Chandrakude	953571926
12.	103	Gouravkumar Chougule	815090408
13.	194	Jayashri Balekai	990230121
14.	105	Komal Kadam	988078746
·15.	106	Madhuri Shelake	961130872
16.	109	Narendra Patil	702611710
17.	110	Nootan Kurane	944896732
18.	111	Nootan Shettimani	900801372
19.	112	Omkar Magdum	815090847
20.	113	Pallavi Sangane	886798063
21.	114	Pooja Ghorapade	
22.	115	Pranali Chovan	831035431
23.	116	Pooja Karekar	984584837
24.	117	Rachana Patil	821743220
25.	119	Santosh Bilage	886743482
26.	120	Seema Lagamannavar	890477702
27.	121	Sharad Banne	962071229
28.	122	Seetal Magdum	984534124
29.	123	Shivatei Chougule	914860361
30.	124	Shweta Sapagale	875164536
31.	125	Sneha Kamble	805039082
32.	126	Soumya Patil	812300309
33.	128	Tejas Patil	733785499
34.	129	Vaishanvi Ajarekar	
35.	130	Vaishanvi Ambale	9148848593
36.	131	Yogesh Varute	831004000
37.	132	Pooja Reddy	



List of the Staff

1.	S. B. Patil	8762186999
2.	S. D. Payamalle	9591703071
3.	P B Meghannavar	8123723166
4.	A Y Maniyar	7411237375
5.	Pragati Salunke	9130214352
6.	M M Patil	9481738368

HEAD
Department of Botany
G. I. Bagewadi College, Nipani.

Co-ordittator IQAC K. L. E. Society's G. I. Bagewadi College, Nipani.

G.I. Bagewadi Arts, Science & Commerce College, NiPAMI.

Semester V

(w.e.f 2016-17)

Botany Paper - !!

Paper-II: Ecology, Environmental Biology and Phytogeography

50 hrs

Objectives:-This paper has topics on pollution, pollution control and forestry. Considering the present scenario with respect to environment these topics are most valuable.

Unit I: Plant and environment: Atmosphere (gaseous composition), water (properties of water cycle), light (global radiation, photo synthetically active radiation), temperature, soil (development, soil profiles, physico-chemical properties), and biota.

Morphological, anatomical and physiological responses of plants to water (hydrophytes, xerophytes and epiphytes), temperature (thermoperiodicity and vernalization), light (photoperiodism, heliophytes and sciophytes) and salinity.

12 Hrs.

Unit 2: Population ecology and Ecosystems: Growth curves; ecotypes; ecads, Ecological succession-hydrach and xerarch.

Structure of Ecosystems (Pond and Forest): ebiotic and biotic components; food chain, food web, ecological pyramids, energy flow.

III Hrs.

Unit 3: Phytogeography: Botanical regions of world. Vegetation types of Karnataka and India.

06 Hrs.

Unit 4: Conservation of Natural resources: Different types of natural resources and their conservation.

Forest and Forest Management: Forest and its ecological significance, deforestation, forest management and social forestry. Natural depletion of vegetation endangered and threatened economic plants of India and red data book. Wild life management in India, Indian board of wild life, national park and sanctuary.



Energy resources: conventional and non conventional sources of energy. Biodiversity: significance, types, depletion, conservation of biodiversity.

12 Hrs.

Unit 5: Pollution: Introduction, causes, effects and control measures of Water pollution, Air pollution. Soil pollution, Acid rain, Global warming, and Ozone depletion.

Sewage water and waste water types. Methods of effluent treatment of industrial waste water, sludge disposal and lits care related to environment.

Practical

- Study of frequency and density of herbaceous plants by quadrat method.
- To determine moisture content and water holding capacity of different types of soils.
- To estimate the elkalinity of water samples.
- 4. Ecological instruments.
- Morphology and anatomical adaptations in three hydrophytes.
- 6. Morphology and anatomical adaptations in xerophytes: One succulent and one non-succulent, one epiphyte and one balophyte.
- Waste water enalysis, physical chemical parameter, pH, turbidity, TOS, 800, COD, temperature and any other inorganic elements.
- 8. Visit to effluent treatment plant to study recycling of waste water near by industry and study the effect of industrial pollution nearby water bodies (Biomagnification & Eutrophication).
- 9. Assignment of Project related to practical number eight.



10. Study Tour of minimum two days to study forest types and ecological groups.

Books for Reference:

- Sharma P.D. (1993)-Ecology and Environment Rastogi Publication. New Delhi.
- 2. Mishra R. -- Ecology Work Book- Oxford and IBH, New Delhi,
- 3. Agarwal K.C. (1993)- Environmental Bilogy- Agro Botanical Publishers, Jodhapur.
- 4. Mishra K.C. (1992) Manuel of Plant Ecology Oxford & IBH Publication, New delhi.
- 5. Kochar P.L. (1980) Plant Ecology S. Nagin & Co., Jallandhar.
- 6. Kormandi E.J. (1984)- concept of Ecology- Printice Hall Ind., New Delhi.
- 7. Asthana R.K. (1998) Environmental Problems and Solution- S.Chand & Co. Pvt. Ltd., New Delhi,
- 8. Verma P.S., V.K. Agarwal (1983) Environmental Biology S.Chand & Co. Pvt. Ltd., New Delbi.
- 9. Subramenyam N.S. A.V.S.S. Samburthy (2000)- Ecology- Narosa Publishing House, New Delhi.
- Sharma O.P. (1983) Ecology & Environmental Biology- Restogi Publication, Meerut.
- Nebel B.J. (1990) Environmental Science Printice Hall Indu. Pvt. Ltd. New Delhi.
- 12. Trivedi R.K. Etal (1987) Practical Ecology Annual Publication, Jadhapur.
- 13. Rao K.S. (1971) Fundamentals of Ecology W.B. Saunders co. Philadelphia.
- 14. Shukla R.S. & Chandel P.S. (2000) Plant Ecology S.Chand & Co. Pvt. Ltd., New delhi.
- 15. Odum, E.P 1983. Basic Ecology, Saunders, Philadelphia.





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Website: www.klegihcollege.com Pb: 08338-220116, 220416

E-mail: klegibnbotany@gmall.com

Ref.: E:/E/Study tour

DEPARTMENT OF BOTANY

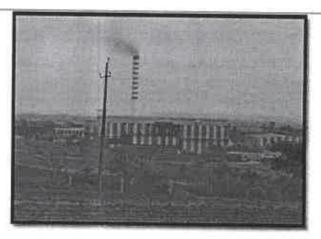
Date: 26.09,2018

Report on Study Tour/Field Visit for the year 2018-19

Botany							
One day visit to study effluent water treatment							
Visit to Om Sugar Factory, Jainapur, Chikodi							
28.09.2018							
Dr.S.D.Payamalle and Ms. Afreen Maniyar							
V semester Botany Students							
Total	39	Teachers	2	Students	37	Others	-
To become aware of effluent water treatment method							
Students became aware of effluent water treatment method							
	One da Visit to 28.09.2 Dr.S.D V sem Total To becc	One day visit Visit to Om 3 28.09.2018 Dr.S.D.Payan V semester E Total 39 To become av	One day visit to study effl Visit to Om Sugar Factor 28.09.2018 Dr.S.D.Payamalle and Ms V semester Botany Stude Total 39 Teachers To become aware of effluence	One day visit to study effluent v Visit to Om Sugar Factory, Jain 28.09.2018 Dr.S.D.Payamalle and Ms. Afrect V semester Botany Students Total 39 Teachers 2 To become aware of effluent wa	One day visit to study effluent water treatment Visit to Om Sugar Factory, Jainapur, Chikod 28.09.2018 Dr.S.D.Payamalle and Ms. Afreen Maniyar V semester Botany Students Total 39 Teachers 2 Students To become aware of effluent water treatment in	One day visit to study effluent water treatment Visit to Om Sugar Factory, Jainapur, Chikodi 28.09.2018 Dr.S.D.Payamalle and Ms. Afreen Maniyar V semester Botany Students Total 39 Teachers 2 Students 37 To become aware of effluent water treatment method	One day visit to study effluent water treatment Visit to Om Sugar Factory, Jainapur, Chikodi 28.09.2018 Dr.S.D.Payamalle and Ms. Afreen Maniyar V semester Botany Students Total 39 Teachers 2 Students 37 Others

Photo Gallery





Department of Botany G. I. Bagewadi College, Nipani.

Co-ordinator IQAU K. L. E. Society's G. I. Bagewadi College, Nipani.

PRINCIPAL il Bagawadi Arts, Science & Commerce College, NIPANL



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Website: www.klegibcollege.com

Ph: 08338-220116, 220416

E-mail: klegibabotanv@gmall.com

DEPARTMENT OF BOTANY

Date: 27/09/2018

To,

The Principal, KLES G I Bagewadi College Nipani.

Sub: Seeking permission to visit the OmSugar Factory reg.

Respected Sir,

With respect to above mentioned subject, as per the RCU Belagavi Botany V semester Syllabus, there is compulsory visit to study water effluent treatment for V semester. In this respect the department of Botany has decided to conduct study visit on 28th Septembert 2018 at Om Sugar Factory, Jainapur, Chikodi. Hence, we request your kind permission to conduct the Visit.

Thanking You,

Yours Sincerely

Department of Botany
G. I. Bagewadi College, Nipani.

G.I. Bagawadi Arts, Science & Commerce College, NIPANI



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Website: www.Megibeolicge.com

Ph: 08338-220116, 220416

E-mail: kleelbnbotanv@email.com

Ref:, Bot/E:/E:/CR I/ Study Tour

Date: 28.09.2018

DEPARTMENT OF BOTANY

S.No	Year	Places visited	Class	Days	No. of Students	Staff in charge
1.	2018-19	Visit to Om Sugar Factory, Jainapur, Chikodi	V sem	l Day	37	Dr.S.D.Payamalle Ms. Afreen Maniyan

SI.No	V sem students' List 2018-19	SI.No	V sem students' List 2018-19
1	Abhishek Chougale	20	Pallavi Sangane
2	Arati Gore	21	Pooja Ghorpade
3	Ashrafall Bargir	22	Pranali Chavan
4	Chaitali Hegade	23	Puja Karekar
5	Chaitra Hasure	24	Rachana Patil
6	Devyani Khot	25	Santosh Bilag
7	Dhanashree Hastire	26	Seema Lagamannavar
8	Dhanashree Chalake	27	Sharad Banne
9	Dhanashri Patil	28	Sheetal Magadum
10	Digvíjay Nigave	29	Shivatej Chougale
11	Divya Chandrakude	30	Shweta Sapagale
12	Gauravkumar Chougule	31	Sneha Kamble
13	Jayashree Balikal	32	Soumya Patil
14	Komal Kadam	33	Tejas Patil
15	Madhuri Shelake	34	
16	Narendra Patil	35	Vaishnavi Ajarekar Vaishnavi Ambie
17	Notan Kurane	36	
18	Nutan Shettimani	37	Yogesh Varute
19	Omkar Magadum		Pooja Reddy

HOD HEAD Department of Botony G. I. Bagewadi College, Mpani

IQAC Coordinator
Co-ordinator IQAC
K. L. E. Society's
G. J. Bagawadi College, Nipard.

Principal
PRINCIPAL
G.I. Bagewadi Arts, Science &
Commerce College, NIPANI.

12. ZOOLOGY (Optional)

BSc II Semester Scheme (CBSC - Pattern) Zoology (Optional) Sylfabus(Revised) 2017 -18 Onwards

Syliabus	Total Hours	Theory & Practical/ Week
BIOLOGY OF CHORDATES	50hrs.	4 hrs.
PRACTICAL	12	4 hrs.
	BIOLOGY OF CHORDATES	BIOLOGY OF CHORDATES 50hrs.

NOTE:

THEC	THEORY MARKS			CTICAL MA	RKS
Internal	Annual	Total Marks	Internal	Annual	Total Marks
20	80	100 marks	10	40	50 marks

Question paper pattern for THEORY examination

Que.No.	Marks	Solve	Total Marks
	02	10	20
ll .	04	05	20
111	10	04	40

PRACTICAL pattern for examination

Que.No.	Solve	Total Marks
	Dissection (Explain any one system	08
ll	Mounting .	04
311	Comparative Anatomy	06
IV	Identification / Spotting (Six)	12
V	Project Report	05
VI	Journal	05

TOTAL --- 40 MARKS



B.Sc II Semester Syllabus

ZOOLOGY (Optional) 2017-18 Onwards

Total Marks-80

Total Teaching-50hrs.

Biology of Chordates UNIT-I

Chordates: General characters and classification.

8 hrs

- Sub-phylum:Hemichordata-External Characters 1. & Digestive system of Balanoglossus.
- Sub-phylum:Urochordata- External Characters 2. & Retrogressive metamorphosis in Herdmania.
- Subphylum:Cephalochordata-ExternalCharacters 3. & feeding mechanism in Branchiostoma.
- 4. Cyclostomata: External Characters &general organisation of Petromyzon & Myxine(Hagfish/Slime).

UNIT-II

- Pisces: General characters & Classification of Pisces up to orders 5hrs with examples. General characters of Chondrichthyes and Ostelchthyes. Type study Scoliodon-Externals Characters, Digestive system, Reproductive system and Fish migration.
- Amphibia: General characters & classification up to orders with 5hrs Examples. Type study Frog- Externals characters, Digestive system, Circulatory & Reproductive system. Axoloti larva & its significance.

UNIT-III

- Reptilia: General characters & classification up to orders with 5hrs Examples. Type study Calotes-Externals characters, Digestive system, Circulatory & Reproductive system. Indian poisonous & non-poisonous snakes.
- Aves General characters & Classification up to orders with. 10hrs Examples Type study Pigeon-Externals characters, Digestive System, Respiratory & Reproductive system. Bird migration, Flight adaptations, Flightless birds, Beak & Feet modification.



UNIT-IV

General characters & classification up to orders with Examples Type study Rat-E xternals characters, Diges System. Circulatory, Nervous, Excretory& Reproductiv Systems.	5hrs tive e
1	

Compar	ative	Anatomy	,
A A III I P GIII		- MIGHTONIA	•

Origin, development & structure of Heart, Brain 12 hrs and integument in Fishes, Amphibians, Reptiles, Aves and Mammals.

PRACTICALS

TRACTICALO	
Total Practica	als -12
 Classification of Urochordata, Cephalochordata, Cyclostomes Examples: Balanoglossus, Herdmania, Branchiostoma. 	01
Peteromyzon. 2. Classification of Fishes -	
	01
Examples: Scoliodon, Pristis, Sphyrna, Catla catla,	
Labeo rohita, Hippocampus, Eel, Exocoetus & Synaptura.	
3. Classification of Amphibia -	01
Examples: Frog, Toad, Ichthyophis, Ambystoma, Axoloti Larva & Rhacophorous.	
4. Classification of Reptilia-	01
<u>Examples</u> : Calotes, Hemidactylus, Chaemaleon, Mabuya Draco, Naja naja, Python, Viper, Turtle and Crocodile.	
5. Classification of Aves -	01
Examples: Psittacula, Owl, Woodpecker, Pigeon and	٧.
Passer domesticus.	
6. Classification of Mammalia -	01
Examples: Sorex, Bat, Loris, Pangolin, Hystrix, Herpetes	01
& Funambulus.	
7. Study of Comparative Anatomy:	
Heart and Brain in Fishes, Amphibians, Reptiles,	02
Aves and Mammals	O.L.
8. Explanation & Demonstration in Bony fish/Shark.	04
a). External characters	V+
b). Digestive system	
c). Reproductive system	
d). Mounting of Brain	
_	



NOTE:

1. With the help of Charts/Models/Diagrams/Printouts & Xerox Sheets are used in practical's demonstration.

2. As per UGC guidelines **Only one** species to be demonstrated

by Faculty & students should not do any dissection.

3. Students are supposed to draw neat labelled diagrams & write The explanation in their journal.

- 4. In practical examination question no I & II are put Charts/ Models/ Diagrams/ Printouts & Xerox Sheets of the system-Students has to identify& write the explanation in their Examination paper.
- Compulsory Study Tour/ Field visit to study Animal diversity. (Submission of project report carries- 5 marks).

REFERENCE BOOKS

- 1. Modern Text Book of Zoology Vertebrate-R.L.Kotpal.
- 2. Chordata -- Dhami & Dhami.
- 3. Vertebrate- Majapuria.
- Functional Organization of Vertebrate— H Nigam & R.Sobti-Shoban Lai Nagin Chand & Co.
- A manual of Zoology Vertebrates- M.Ekambarnath Ayyar & Swaminathan Ayyar S. Vishwanath Publisher.
- 6. The Vertebrates Pisces to Mammalia, Hyman L.H. McGraw Hill Co
- 7. The Vertebrates Hyman et al.
- 8. Text Book of Zoology -- Parker T.J. & Haswell W.A. Macmillan Co. London.
- Biology of Chordates by Dr Harish .C. Nigam. Vishal Publication Lucknow.



G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 Re-accredited at 'A' level by NAAC with CGPA 3.35

Affiliated to Rani Channamma University, Belagavi, Karnataka, India

Website: WWW, Klegibnpn.edu.in E-mail: klegib npn@yahoo.co.in Ph: 08338-220116

Lef No. GUB/
Date: 11/03/2019

Ref. No.: GIB/

DEPARTMENT OF ZOOLOGY

Field Visit - Bird Watching

To,
The Principal
K.L.E. Society's
G.I. Bagewadi College, Nipani

Respected sir,

As a part of curriculum we have arranged one day field visit at Agriculture Research Station, Nipani on 12/03/2019 at early morning 6.30am for the study of different varieties of birds for B.Sc. II Sem students, 69 students have enrolled their names, Miss.S.M.Hegade and Smt.G.A Dhekale will be accompanying the students. This is for your kind information.

Thanking you Sir,

Head of Department

HOD Department of Zeathan
G. Bagewadt MIPALII

Principal
PRINCIPAL
G.I. Bagewadi Arts, Science &
Commerce College, NIPANI.



**	2018-19	II Sem
r.No	Roll.No	Name of the student
1	1	Adesh Patil
2	2	Afreen Parakute
3	3	Aishwarya Kurundawade
4	4	Akshata Kulkarni
5	5	Akshata Vasawade
6	6	Akshay Shjiragave
7	7	Anand Patil
8	8	Aniket Sadalge
9	9	Anita Ingale
10	10	Anjali Patil
11	11	Arati Dhanappagol
12	12	Arpita Kulkarni
13	13	Bhagyashri Ghatage
14	14	Dhanashri Patil
15	1.5	Gouri Rajannavar
16	16	Rutuja Kogale
17	17	Kiran Irole
18	18	Kiran Karibalappagol
19	19	Komal Latekar
20	20	Mahesh Kadapure
21	21	Mahesh Gavade
22	22	Maheshchandr Dhange
23	.23	Manjula Bhave
24	24	Manjushree Sattigeri
25	25	Manasi Gurav
26	26	Megha Kambale
27	27	Nikita Patil
28	28	Nisha Chinchane
29	29	Omkar Kore
30	30	Pavan Bilage
31	31	Pranjali More
32	32	Poorva Jadhav
33	33	Rakesh Sutar
34	34	Rashmi Sidanale
35	35	Rishikesh Patil
36	36	Ritu Bilkar
37	37	Rudra Magadum
38	.38	Rukmini Talawar
39	39	Rutuja Desai
40	40	Rutuja Pawar
41	41	Rutuja Shinde
12	42	Sagar Bagadi
13	43	Sahil Patl
4	44	Sakshata Jatrate
15	45	Sana Mulla
7	46	Sana Gedampalli



48	48	Shashidher Gurav	
49	49	Shridhar Hawaldar	-
50	50	Shruti Kamate	
51	51	Shrutika Kamate	-
52	52	Shubham Chougale	
53	53	Shubhangi Bhojepatil	_
54	54	Sneha Ingale	_
55	55	Sneha Ambi	-
56	56	Sneha Murabatte	
57	57	Sneha Patil	-
58	58	Soumya Magadum	
59	59	Sourabh vaigude	
60	60	Shruti Halagadagi	
61	61	Suchita Sapagale	
62	62	Sukanya Singannavar	
63	63	Sushma Mathapati	_
64	64	Trupti Kamalkar	
65	65	Vaishnavi More	-
66	66	Versha Kore	-
67	67	Rutuja Chougale	-
68	68	Shefali Magadum	
69	69	Shritika Tele	

Department of Zoology

A L Bagewadi College, Nipard.





G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 Re-accredited at 'A' level by NAAC with CGPA 3.35

Affiliated to Rani Channamma University, Belagavi, Karnataka, India

Website: WWW.Klegibnpn.edu.in E-mail: klegib npn@yahoo.co.in Ph: 08338-220116

Ref. No.: GIB/

Date: 12/03/2019

REPORT ON - "BIRD WATCHING"

Name of the Department	Zoology				
Name of the Event Organized	Field visit				
Title of the Event	"Bird watching"				
Date of the Event Organized	12.03.2019				
Class	B.Sc. II Sem				
Field visit location	ARS Campus, Nipani				
Name of the Convener	Dr. V.R.Naik				
Participants	70				
No. of Participants	Total 69 Teachers 01 Students 69				
Name of the Expert with Designation	Miss. Geeta Dhekale				
Contact Number & Address of the	9036140785				
Expert	A/P: Nipani Tq: Chikkodi Dist: Belagavi				
Objectives of the Event	To study different varieties of birds in their natural habitat				
Outcome of the Event	 Students understood about diversity of birds and their behavior. 				
	2. Students come to know about which types of				
	birds are present in ARS Campus around GIB				
	College Nipani.				

Photo Gallery



Behavior of Parrots



Bird watching Agriculture resource centre.

HOD

HOD

Calendaria of Apology G.J.Bagewadi NIPANI

IQAC Coordinator

Co-ordinator IQAC

K. L. E. Society's G. I. Bagewadi College, Nipani, Principal

PRINCIPAL

G.I. Bagewedi Arts, Science & Commerce College, NIPANI

11.ZOOLOGY (Optional)

BSc IV Semester Scheme (CBSC - Pattern) Zoology (Optional) Syllabus(Revised) 2018 -19 Onwards

Semesters	Syllabus	Total Hours	Theory & Practical/ Week
IV	Cell Biology, Histology & Animal Behaviors	50hrs.	4 hrs.
	PRACTICAL	12	4 hrs.

NOTE:

THEORY MARKS			PRACTICAL MARKS		
Internal	Annual	Total Marks	Internal	Annual	Total Marks
20	80	100 marks	10	40	50 marks

Question paper pattern for THEORY examination

Que.No.	Marks	Solve	Total Marks
I	02	10	20
II	04	05	20
III	10	04	40

PRACTICAL nattern for evamination

Que.No.	Solve	Total Marks	
I	Make a temporary preparation of Histology slide.	10	
ŢĬ	Make a temporary squash preparation of Onion root tip/Grasshopper Testis/Onion flower bud	08	
III	Identification (6X2)	12	
IV	Field study report & viva	05	
V	Journal	05	

TOTAL - 40 MARKS

B.Sc IV Semester Syllabus Revised (2018-19) Onwards ZOOLOGY (Optional)

Total Marks--80

Total Teaching-50hrs.

Cell Biology, Histology & Animal Behaviors

UNIT-I Cell Biology	
Cell Biology: Ultra structure of animal cell, Cell theory & cell cycle.	1hr
Ultra Structure & function of cell organelles: Plasma membrane,	
Endoplasmic reticulum, Ribosome's, Golgi-complex,	
Lysosomes, Mitochondria and Nucleus.	8hrs
UNIT-II Cell Biology	
Chromosomes: Structure & types of chromosomes. Ultra structure	
of chromosome.	2hrs
Cell division: Types-mitosis & meiosis.	2hrs
Cellular Aging & Cell Death: Concept of Aging theories, Effect of	
Aging on Cell organelles. Apoptosis, Necrosis-Definition	
& significance.	2hrs
Cancer Biology: Introduction, Characteristics of cancer cells.	3hrs
Carcinogens, cause & prevention.	
UNIT-III Histology	
Histo chemical Techniques: Cytoplasmic & Nuclear stains.	3hrs
Preparation of histological slides.	
A). Study of histological structure and functions of the following	8hrs
Mammalian organs.	
a). Tongue b). Salivary glands	
c). Stomach d). Intestine	
e). Liver f). Kidney	
UNIT-IV Histology	
B). Study of histological structure and Endocrine functions of the	9hrs
following Mammalian organs	
a) Pituitary b) Pancreas c) Adrenal d) Thyroid	
e) Parathyroid f) Thymus g) Testes h) Ovary	
UNIT-V Ethology (Animal Behaviour)	
relation and the second	
Ethology: Introduction Definition, Scope of ethology. Brief	2hrs
Contributions of Konard Lorenz, NikoTinbergen and	
Karl Von Frisch.	
Types of Animal Behaviour:	7hrs
1). Innate Behaviour: Taxes, Reflexes, Instincts & Motivation.	
2).Learned Behaviour: Habituation, Imprinting, Conditioned,	
Reflexes and Insight learning.	1
3). Social behaviour: Types of animal society & Colony in	1

Honey Bees and Monkey troops.

4). Territoriality & Courtship Behaviour in Scorpion, Stickle

6). Biological clock, Circadian rhythm and Chronobiology.

Back Fish & Peacock.

5).Study of nesting behavior and mimicry in animal.

Animal Communication: Chemical, visual and Audio. Function of



2hrs 3hrs

PRACTICALS

 Study of permanent cytology slides of Mitos Study of temporary preparation of Mitotic st Root tip cells. 	Total Practicals-12 hr is & Meiosis, 2hrs ages from onion 2hrs
 Study of temporary preparation of Melotic st Flower bud/Grass Hooper testis. 	
 Preparation and observation of permanent l Stomach, Intestine, Liver, Pancreas, Kie Thyroid, Testis & Ovary. 	nistological slides 4hrs Iney, Adrenal
 Study of mimicry in leaf insect, Chameleon, I Insect, Ants, Wasps and Spiders. 	Butterflies, Stick 1hr
Study of Nest and nesting material. 7) Internal Practical Test	1hr 1hr

NOTE:

6)

- With the help of Charts/Models/Diagrams/Printouts & Xerox Sheets are used in practical demonstration
- 2. Compulsory field visit to study Mimicry, Habitats and Community.
- 3. Submission of field visit report carries 5 marks.

REFERENCE BOOKS

- 1. Introduction to Histology. Gauba R.K. Tata Mc Graw Hill New Delhi.
- Cells and Tissues: Introduction to Histology ND Cells :Rogers: A.W. AcademicPress .
- 3. Basic medical Histology :Biology of cells & tissues & organs Kessel R.G. oupNew York.
- 4. Text Book of Histology :Bloom and Fawcett.Saunders Publ.Philadelphia.
- 5. Bailey's Text Book of Histology. Bailee Baltimore, Willims and Wilkins.
- 6. Text Book of Ecology: Odum.
- Introduction to animal behavior: Aubrey Manning and Marian S. Dawkins Cambridge Uni Press.
- 8. Essentials of organizational behavior: Stephan Robbins, Prentice Hall of IndiaNew Delhi.
- 9. Animal Behaviour :McFarland D ELBS with Longman.
- Ethology "Barnett.
- 11. An introduction to Behavioural Ecology J.R. Krebs & N.B. Davies Black wellScientific Publ.
- 12. Text Book of Animal Behaviour: Fatik Baran mandal, PHI Learning Pvt Ltd newDelhi.
- 13. Animal Behaviour :Reena Mathur,Rastogi and Coimpani.
- 14. Ceil Biology Chennarayappa Unniversity Press





G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237

[Re-accredited at 'A' level by NAAC with CGPA 3.36]

Date: 17/03/2019

DEPARTMENT OF ZOOLOGY

To, Shri. A.S.Magar Chitri Adventures Eco and Agro tourism

Subject : Permission to visit Chitri Adventures Eco and Agro tourism for IV sem students.,

Respected sir,

With reference to subject cited above I Dr. Vidya Naik head of department of Zoology G.I. Bagewadi college Nipani, bring to your kind perusal that as a part of curriculum for the B.Sc IV Sem students, would like to visit Chitri Adventures Eco and Agro tourism. Kindly permit us for the same.

Thanking you.

Received

NIPANI SE

Yours faithfully,



G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237

[Re-accredited at 'A' level by NAAC with CGPA 3.264]

Date: 15/03/2019

DEPARTMENT OF ZOOLOGY

To,

The Principal

G.I. Bagewadi College, Nipani

Sub: Permission to visit Chitri forest (Ajara).

Respected sir,

As a part of curriculum we are arranging one day study tour to chitri. As per RCU syllabus for IV SEM to study colouration and mimicry in animals. So we would like to visit on Sunday 17/03/2019. To accommodate the students we are hiring private vehicles. So kindly accord your permission.

Thanking you.



Yours faithfully HEAD

Department of Zoology

4. Cogewadi Culege, Niperi

G.I. 2sgevedi Arts, Odence & Cominerce College, MPANI.



KLE Society's

G.I.Bagewadi Arts, Science, Commerce Degree & P. G. College, Nipani-591237. District: Belagavi. KARNATAKA Re-Accredited at 'A' level by NAAC with CGPA 3.35

Phone Number: 08338 220116 . E-Mail ID; klegib_npn@yahoo.co.in

Fax Number: 08338 220116

Website URL: www.klegibcollege.org

List of Students

Sl No.	Roll.No.	Name of the Student	Amount	Signature
1	114.	Abhinandan Kolhapure	5001-	- A-
2	115.	Abhishek Magdum	Ab.	
3	116.	Aishwarya Killedar	A-b -	
4	117.	Aishwarya Punde	500/-	Stande
5	118.	Akshay Magdum	500	EMOCO LILLY
6	119.	Anil Bhingare	500/-	A Divers
7	120.	Chetana Belavi	500/-	Chesan
8	121.	Chinmayi Indi	2001-	(Divolai)
9	122.	Daksha Patel	5001-	00
(10)	123.	Gurunath Arekar	5001-	Chelan
11	124	Janhavi Bahtale	500/-	De Indole
12	125.	Kajal Bhoite	500/-	Keheik -
13	126.	Kamartaj Khanapure	5001-	aktor
14	127.	Kashinath Savantre	500/-	irimanles
15	128,	Kenchappa Nasalapure	500/-	13×1×1×2
16	129.	Pranjali Potadar	Ab -	- Moder
17	130.	Madhuri Bhivashe	500/-	Things
18	131.	Masum Panwale	Apo/-	TAP. C
19	132.	Meenakshi Gurav	500/-	Phoev
20	133.	Megha Sumbad	5001-	Mundad
21	134.	Nandini Shi	Ab	3

22	135	Neha Kadakare	5001-	Nodepus.
2.3	136.	Neha Patil	500/-	(Poto)
24	137.	Nikita Havale	Ab	Que.
25	138.	Nikita Magdum	KRO/-	- Madural
26	139.	Parshwajeet Patil	Ab	1 9 9 9 9 9
27	140.	Pavan Paymale	500/-	- dupole
28	141.	Pooja Kesarkar	500/-	Admo
29	142.	Prajkta Bachane	Ab	9
30	143.	Prajkta Patil	Ab	
31	144	Prathmesh Mavinkatti	Ab	
32	145.	Pratiksha Suryavanshi	Дb	
33	146.	Praveen Chougule		& Chougule
34	147.	Prithviraj Narayankar	Ab	
35	148.	Priyanka Palkar	500/-	the suntil
36	149	Pushpdant Upadhye	5'00/-	Rush.
37	150.	Rachana Tandale	Ab	U.S. and V
38	151.	Ramizraja Makandar	Ab	
39	152.	Rohini Tharapatti	500/-	ch Hoost P
40	153.	Rutuja Patil	Ab	1 of Calo
41	154.	Sabeel Makandar		Halanda
42	155.	Sachin Badkar		J. XIE THE
43	156.	Samiksha Gibise	Ab	
44	157.	Sana Soudagar	Ab	
45	158.	Saniya Awate		Ato
46	159.	Sanjeevani Hasure	500/- Ab	

47	160.	Sanket Jadhav	Ab	
48	161.	Santosh Adake	Ab	
49	162.	Sayyam Havale	500/-	Staude
50	163.	Seema Datwade	500/-	Starale
51	164.	Shahida Desai	Ab	
52	165,	· Shradha Kooge	Ab	
53	166.	Shubham Kodane	5001-	Foclane
54	167.	Soujanya Kamate	500/-	Hande
55	168.	Sourabh Pujari	500/-	Tian.
56	169.	Sumeet Chougule	sool	Circuse!
57	170.	Swati Tawadare	Ab	J.
58	171.	Umesh Pujari	Ab	
60	172.	Yogesh Pujari	500/-	Y. Pijari
61	173.	Zainbi Langoti	Ab	1 1 0,0
62	174.	Rohan Manjrekar	Ab	



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Affiliated to Rani Channamma University, Belagavi, Karnataka, India

Website: WWW.Klegibnpn.edu.in E-mail: klegib npn@yahoo.co.in Ph: 08338-220116

Ref. No.: GIB/

Date: 17/03/2019

REPORT ON: STUDY OF MIMICRY HABIT AND COMMUNITY

Name of the Department	Zoology				
Name of the Event Organized	Field Visit				
Title of the Event	Study of mimicry habit and community				
Date of the Event Organized	17.03.2019				
Class	B.Sc IV Sem				
Field visit location	Chitri, Ajara (Maharashtra)				
Name of the Convener	Smt.G.A.Dhekale				
Participants	37				
No. of Participants	Total 37 Teachers 02 Students 35				
Name of the Expert with Designation	Smt.G.A.Dhekale, Assistant prof				
Contact Number & Address of the Expert	9036140785				
Objectives of the Event	Mimicry involves different spacies and functions to protect from predators.				
Outcome of the Event	Makes as antipredator adaptation.				
Photo Gallery	The state of the s				

Study of mimigral policy

Study of mimicry habitat and communit. Chitri(Ajara)



Chtri Habitat

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Co-Ordinator AC
K. L. E. Society's
G. I. Bagewadi College, Nipani.

PRINCIPAL
PRINCIPAL
A. Sagrewuli Arts, Science A
commerce College, NIPANI.

D Sc V Semester (S.1) Paperd ZOOLOGY (aptional)

(Ecology, Evolution, Palsonialpay, Zopenournoly, Who life Conservation)

Total-hours.50 Marks-89

Eco Dave

Earth es Living Planet. Sub divisions, of ecology, Scope of ecology, Hiosphere Light, Temperature (Effect on Animals and Plants) Abietic factors 2hr Blobc Factor Mutualism, Commensalism, Amensialism, Parasitism, Prediction 2hrs Compilition, Parasitism. 4hrs Habitals

Freshwater habitat — Lotic and Lentic systems Zonation of Sea, Marina Biota, Esturina ecology, & Mangrooves Terrestrial habitat — A brief account of Biomes.

Ecological Adeptations — Freshwater, Marine and Terrestrial.

Biogeochemical Cycles - Principles and concepts of Water, Nitrogen, Carbon,

Oxygen cycles

Community Ecology-Community structure, Ecological niches, Edge effect, Stratification, Ecoton. 2hrs

Population Ecology: Density, natality, monality. Age distribution

Population growth, types and curves. 2hrs



Evolution

The Solar System
Origin of Life and its theories

GShre.

The geological time scale

ganes.

Fossile: Definitioni and Kinds of fossile, How fossile are formed, Methods of Preservation. Connecting links and Living fossile. The importance of fossile.

Theories of Organic Evolution :

08h/s

Lamarkism, Darwinism, Mutation Theory
And the Modern Synthesis Theory: (population gene Pool, Gene
Frequencey Variations — gene mutation, chromosomal mutation;
Isolation and recombination.Genetic drift.HardiMenberg equilibrium)

Modes of Evolution : Microevolution, Macroevolution and Mega-evolution.

02 hrs

04 hrs

Evolution of Man and Horse

Paleontology Mesozoic reptiles with a note on Dinesauts.

03 hrs

Zoogeography: Zoogeographical realms of world . A brief account of Wellace's line

03 hrs

Wildlife Conservation :

Wildlife in India, Causes for the depletion of wildlife.
Wild Life Conservation Techniques, methods and measures
Brief account of ; IUCN, WWF, Bombay Natural History Society,
Indian Board for Wild Life, Red Data Book.
Wild Life Act 1972 and its amendments in India, CITES.
Project Tiger and Biosphere Reserve.

Cons



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Total -11 Practicals

- 1; Study of lossite (vertebrate(3) and invertebrate(3). thrs.
- 2. Mesozoic reptiles (ichibyesaur, lyramosaur, brontosaur, brontosaur, brontosaur, brontosaur, brontosaur, brontosaur, archaeochiryx.
- 3. Evolution of man (Homo-eractus. Hemo-habits. Homo-neandertalences.

4. Evolution of Horse

- 5 :Correcting links and living fossils (Neopilina, Peripatus, Limitus, Latimeria; Auchaeopterys and Duckbill pletypus)
- 8 Study of threatened Animals of India (Tiger, Lion, singal horned flanoceros

Musik deer gaur, Golden langur, Loin teiled monkey. Python)

- 7 Estimation of cor from different water samples
- a; Estimation of dissolved exygen

thr

9; Estimation of Total hardness

10; Study of Ecological Adaptations and Morphological peculiarities, ex-Harmit

Draco, Stick insect, putter lish, Exospetus, Phrynosoma, chamaeleon and Bat. crab, the 11. Visit to nearby water body to study Ecosystem

1

REFERENCE BOOKS

Evolution : Odum

Organic Evolution: N. Arumugam Evolution, Dobzhansky, Ayala Stebbins & Valantine Environmental Biology Rastogi and Company Meerul Evolution of the Vertebrates, Colbert E.H. John Wiley and Sons, New York Ecology, Principles and Application chapman, Cambridge university press Environmental Biology P.R. Trivedi and gurudeep Raj. Recent Advances in Environmental Biology - Diwan and D.K. Arcra Environmental Science; Eldon D. Enger and Bradly F, Smith





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Website: WWW.Klegibnpn.edu.in E-mail: klegib npn@yahoo.co.in Ph: 08338-220116

Ref. No.: GIB/

Date: 04/09/2018

DEPARTMENT OF ZOOLOGY

Field Visit - Study of Biodiversity

To, The Principal K.L.E. Society's G.I. Bagewadi College, Nipani

Respected sir,

As a part of curriculum we have arranged one day field visit to Aadi(Nipani)s on 05/09/2018 at early morning 8.30am for the study of animal biodiversity for B.Sc. V Sem students. 40 students have enrolled their names. Miss. Pragati.Salunkhe will be accompanying the students. This is for your kind information.

Thanking you Sir,

Head of Department

HOD Department of Zoology G.I.Bagewedi NIPANI

FIFANI OF THE PARTY OF THE PART

Principal / PRINCIPAL Arts, Science College, NIPAM

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Website: WWW.Klegibnpn.edu.in E-mail: klegib upn@yahoo.co.in Ph: 08338-220116 Ref. No.: GIB/ Date: (15/09/2018

REPORT ON - "STUDY OF ECOSYSTEM"

Zoology				
Field visit				
"Study of Ecosystem"				
05 Sept. 2018				
B.Sc. V Sem				
Adi. Ni nań				
Dr. V. R. Naik, Associate Prof.				
42				
m . 1 40				
Miss. Pragati Salunke, Assistant Prof.				
9130214352. A/P-Nipani. Tal-Chikodi, Dist- Belagavi				
Study of Biotic and Abiotic Factors and there interrelations.				
Students got knowledge about what are the necessaries for good Ecosystem. The students are got knowledge about Pond Ecosystem.				



Field Visit to Adi



Field Visit To Study Ecosystem

Department of Zoology G.I.Bagewadi NIPANI

K. L. E. Society's G. I. Bagewadi College, Nipani.

PRINCIPAL PRINCIPA 31 Bagowadi Arts, Sciar on & Commarce College, NE ANL

2018-	(Study)	of Ecosystem) Study Tour
SI.No	Roll.No	V Sem P-
4	91	Name of the student Abhishek Chougale
2	92	Amit Ammanagi
3	93	Arati Gore
4	94	Ashrafali Bargir
5	95	Chaitali Hegade
6	96	Chaitra Hosure
7	97	Devyani Khot
8	98	Dhanashree hasure
9	99	Dhanashree Shalake
10	100	Dhanashri Patil
11	101	Digvijay Nigave
12	102	Divya Chandrakude
13	103	Guravkumar Chougule
14	104	Jayashri Balikai
15	105	Komal Kadam
16	106	Madhuri Shelke
17	107	Malagoud Patil
18	108	Manoj Kumbar
19	109	Nerendra Patil
20	110	Nootan Kurane
21	111	Nutan Shettimani
22	112	Omker Magadum
23	113	Pallavi Sangane
24	114	Pooja Ghorapade
25	115	Pranali Chayan
26	116	Pooja Karekar
27	117	Rachana Patil
28	118	Sangram Sanadi
29	119	Santosh Bilage
30	120	Seema Lagamannavar
31	121	Sharad Banne
32	122	Sheetal Magadum
33	123	Shivatehj Chougule
34	124	Shweta Sapagale
35	125	Sneha kambale
36	126	Soumya Patil
37	127	Sunita Patil
38	128	Tejas B Patil
39	129	Vaishnyi Ajarekar
10	130	Vaishnavi Ambale
11	131	Yogesh Varute
2	132	Pooja Reddy





Department of Zoology

1. L Bagewadi College, Nipasik.

Kootogy

Rani Channamma University, Belogayi B.Sc VI Semester

Pener |

Total hours - 50 Marks 80 Theory 4 hra/week

Sericulture: Mulbery Silkworm and Life History of Bombyx mon Rearing of Silkworm: Grainage management, Emergence of moth and fertilization, egg laying, hatching and moulting of-silkworm, spinning of cocoons Cocoon processing, stiffling and spinning silk. Filature. Non mulberry silkwarm, types, in brief & Silkworm diseases- Muscardine,

Apiculture: Species of Honey Bees, their Social organization, Life History 05 hrs Methods of Bee Keeping, products of Bees, & their Economic importance

insect Pest Management: Natural control and Applied control of pests Applied Control Mechanical, Physical, Cultural, Legal, Chemical control

05 hrs

Vermiculture: Eerthworm species used in vermiculture, vermiculture technique, and importance of vermiculture. Aquaculture

O4 hrs 10 his

Fravin Fisheries, Species of Prawns, Culture of freshwater and marine Prawns, Preservation and processing of Prawns.

Pearl Culture: Pearl producing molluscans, Pearl formation. Pearl producing Sites in India. Quality and composition of Pearl, Read Industry Artificial Insertion of nucleus Brief technique of Fish culture, Preservation of fishes and their Byproducts

Positry Erects of fowl, Diseases of poultry, Poultry maintenance and Ry-products, and CoMposition and Nutritive value of Egg.

Animal Husbandary: Maintenance, Breeds Diseass, Products and By Products of the following Sheep and Goats, Cow and Bulfalos, Composition and Nutritive value of Milkto his

Lac culture: Classification of Lac insect (Techardia lacea, Life history of Lac Insect. Host plants, Cultivation of Lac Composition and proporties & Economic importance:

3 lus.

2017-19 VI sem D. I

Practicals - 6 1

Total -11 Practicals

1 Project on any of the applied branch studied in theory	
3 Types of non mulberry silkworms in brief and Silkworm diseases (Pobrine, Muscardine and Grasserie & Flature)	ria)
diseases (Pobline, Muscardine	
4 Species and castes of honeybees 5. Agricultural pests and domestic pests (total 8 varieties (total 8 varieties (total 8 varieties (total 8 varieties (total 8 varieties)	5) h <i>ree)</i>
6 Study of fisheries Monuses tringer	
And Places (SIX)	ographs) T
7 Study of Varieties of sheep and goat (from chart/photos 8 Study of varieties of Cow & Buffalos(from chart/photos 9 Vermiculture Study of types of Earthworm species	raphs)1
a Asturcomorphism programmes	· ·
O Study of paultry breeds	1
1 Study of Lac insect (Life cycle)	

Scheme for practicals 6.1 APPLIED ZOOLOGY

O Mail	Sericulture		47		03 marks
* * * * * * * * * * * * * * * * * * * *	Apiculture				03 marks
					03 marks
	Pest management			4	03 marks
	Pisciculture		*		03 marks
	Vermiculture			*	06 marks
100	Animal Husbandry				
	Prawn & Pearl culture				04 marks
Q No. VIII	Project report & Viva				10 marks
Q No. IX	Journal	34			05 marks

Total 40 marks

tible 1. Exeminers can alter the Scheme of marks for proclical in consultation.

Vith the staff of the host college:



G.L. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237 Re-accredited at 'A' level by NAAC with CGPA 3.35

Affiliated to Rani Channamma University, Belagavi, Karnataka, India

Website: WWW.Klegibupn.edu.in E-mail: klegib upn@ynhoo.co.in Ph: 08338-220116

Ref. No.: GIB/

Date: 19/03/2019

DEPARTMENT OF ZOOLOGY

Field Visit - Applied Zoology

Το, The Principal K.L.E. Society's : G.I. Bagewadi College, Nipani

Respected sir.

As a part of curriculum we have arranged Field Visit on 120/03/2019 to study about applied zoology about Dairy Forming, Sericulture, Vermiculture, Poultry Farming, and Insect Pest Management for B.Sc. VI Sem students. 42 students have enrolled their names. Smt. V. R. Naik and Smt. K. I. Pattan will be accompanying the students. This is for your kind information.

Thanking you Sir,

Head of Department

HOD Department of Zoology G.I.Bagewedi NIPANI

A.I. Bagewadi Aris, Science & Commerce College, 48176.98



	2018-19		Applied Zoology	(Fiel	-
SLI	No Ro	ll.No	Name of the s	tudan	B.Sc VI Sem(P-I)
1 91		1	Abhishek Chougal	Canell	- coloct maintes
2	9	2	Amit Ammanagi		Vermiculture
3	9	3	Arati Gore		Vermiculture
4	9	4	Ashrafali Bargir		Vermiculture
5	9	5	Chaitalí Hegade	+	Vermiculture
6	9	6	Cheitra Hosure		Vermiculture
7	9	7	Devyani Khot		Vermiculture
8	98	3	Dhanashree hasure		
9	99		Dhanashree Shalake		1
10	10	0]	Dhanashri Patil	;	1
11	10)	: ₁	Digvíjay Nigave		
12	102	2 r	Divya Chandrakude		
13	103		Juravkumar Chougu	J_	14.
14	104	.]	ayashri Balikai	116	Poultry farming
15	105	K	omal Kadam		Poultry farming
16	106		ladhuri Shelke		Poultry farming
17	107		falagoud Patil		Poultry farming
18	108	M	lanoj Kumbar		Poultry farming
19	109	N	arendra Patil	- Villa ratining	
20	110	N.	ootan Kurane		Insect Pest Management
21	111		itan Shettimani		
22	112		ukar Magadum		1
23	113	Pa	llavi Sangane		
24	114	Po	oja Ghorapade		Insect Pest Management
25	115	Pra	nali Chavan		
26	116.		ja Karekar		Dairy breeds
27	117	Ree	hana Patil		Dairy breeds
28	118		gram Sanadi	- 1	
29	119	San	tosh Bilage		Dairy breeds
30	120	Sper	ma I anama	- 1	Dairy breeds
31	121	Shar	ma Lagamannavar rad Banne	1	Dairy breeds
32	122		etal Magadum	11	Insect Pest Management
3	123	Ship	etabi Chana	- 11	nsect Pest Management
4	124	Shar	atehj Chougule eta Sapagale	It	nsect Pest Management
5	125	Speh	era oapagare a kambale	10	asect Pest Management
6	126		nya Pati]	120	isect Post Management
7	127	Sun?	a Patil	II	sect Pest Management
8	128.		B Patil	JP.	oultry farming
,	129	Volet	er Falli	Po	oultry farming
- 1	130	Valor	nvi Ajarekar	Po	outry farming
- 1	131	Voce	navi Ambale	Po	oultry farming
	132	Pooja	sh Varute	. IPo	outry farming





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Ref. No.: GIB/

Date: 20/03/2019

PROPJECT REPORT ON "APPLIED ZOOLOGY"

Name of the Department	Zoology				
Name of the Event Organized	Applied Zoology				
Title of the Event	Different Branches Of Applied Zoology				
Date of the Event Organized	20/03/2019				
Class	B.Sc VI Sem P-I				
Name of the Convener	Smt.G.A.Dhekale				
Participants	43				
No. of Participants	Total 43 Teachers 01 Students 42				
Name of the Expert with Designation	Miss. Sampada Hegade				
Contact Number of the Expert	9008396800				
•	A/P: Nipani Tq: Chikkodi Dist: Belagavi				
Objectives of the Event	1.To know about Different breeds of Buffalos, Cows, sheep and goats				
	2.To Study the sericulture				
Outcome of the Event	1. They got knowledge about poultry				
	farming				
	2. They are the best acceptable disposal of				
	waste, ways for quality, environment &				
	organic farming from vermiculture				
Photo Collows					

Photo Gallery



Plants Of Silkworms in Sericulture Farm



Breeds Of Buffalos

HOD

IQAC Coordinator
Co-ordinator IQAC
K. L. E. Society's
G. I. Bagewadi College, Nipani.

PRINCIPAL
SERVE Arts, Science &

128

Rani Channomma University, Belagavi B.Sc VI Semester _ 6.2

Paper II (Microbiology, Nanotechnology, Bioinformatics and Methods in Biology)

Total hours -- 50 Marks __ 80 Theory 4 hrs/week

Microbiology

Microscopy: Compound Microscope and its functions
 Dark field microscope. Fluorescent Microscope
 Phase Contrast Microscope and Electron Microscope and their uses

Sterilization and other Techniques _ Physical and Chemical methods 01 kg
 Bacteria Classifiction based on shapes, structure (anatomy) Bacterial 02 hrs reproduction and growth.

4 Fungi: Structure, classification and reproduction, Yeasts
5 Fermentation: Types of Fermentor and basic functions
03hrs
Methods of preservations and criteria for the selection of microorganisms

6 Production of antibodies Penicillin, Streptomycin, Enzyme protease,
Riboflavin.
Othr
Offmal microbial flora of the human body
Othr

8 Role of microbes in environment 01hr

Nanotechnology 4hrs

Introduction: History, Harne, Tools and Techniques in Nanotechnology.

Nanobiology, application of Nano in biology-Nano drug Administration Diagnostic & Therapeutic applications: Lotus effect, Gold & Silve Nanotechnology. Curcumin phytochemicals, Cinnamon in green hand technology.



Bioinformatics	
and Structure analysis Applications of Bioinformatics, Sequencing Sequencing Applications of Bioinformatics	A-4-4 61.20
Alignment) BLAST (Basic Local Alignment Search Tool)	STA (Fast O2hrs
3. Aims and goals of Human Genome Project: Main findings of he genome Project. Prediction and tools for gene prediction.	lman
그 신경불() 김 사이가 가는 사고 있다고 있는 사람들이 되었다. 그는 그 그는 그 사람들이 그를 가는 것이 되었다.	02hrs
4. Proteomics: Two dimensional Gel Electrophoresis Mass spectrometry, SDSPAGE Structure of proteinPrimary, Secondary, Tertiary and Quarternary.	02hrs
Protein structure prediction	
application of Profeome gentinia	01hr
The future of Proteomics	Othr.
Methods in Biology	
Techniques of Cell fraction and Centrifugation. Fichogenization and cell tissue disruption	•.
centifigation.	02hrs
DNA Sequencing In situ Hybridization, DNA microchips	07h
Genetic Engineering is animals, T.	02hrs
Genetically Altered Fish Mosquito and Drosophila.	
	02hrs
- Gene therapy in Humans	
	02hr
Histochemical and Immunization Techniques _ ELISA, RIA, Flow	
	02hrs
(%) (B)	121



Blotting Western Blotting	,
Biophysical Methods _ Brief note of NMR, ESR, Spectroscope and their uses	02hrs
Radioisotopes Techniques in Biochemistry - Types of radioactive decay- Alpha,	02hrs
Geigar-Mullar counter, Liquid Scintillator	01 hr: 01hr
Biological applications of Radioisotopes	01hr
A brief note on the use of ECG, PET, MRI, CAT. Single Neuron recorder in Electro Physiological methods	02hrs



B.Sc VI SEMESTER 8.2

PRACTICAL DETAILS

ZOOLOGY Pract-II

TOTAL 11 PRACTICALS

Measurement of micro organisms (Micrometery)

Preparation of liquid medium (Broth)

Preparation of solid media (PDA medium and PDA plates)

Preparation of agar slants.

Bacterial cell counting using haemocylometer.

Simple and Grams's staining differentiation of bacteria.

Isolation, Identification and enumeration of BacterialProtozoal from most soil or sewage water

Practical application of Bioinformatics: Tool BLAST And FASTA to find out sequence of nucleotides in Desired gene/Amino acid in desired protein

Study of Microbiological Lab Equipments— Microscope, Centrifuge, Autoclave, Pressure cooker, Laminar air flow, Streak Plate, Inocculation needle etc

visit to Diagnostic center to study practical application of ECG, PET, MRJ, CAT





G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

Date: 14/01/20110

DEPARTMENT OF ZOOLOGY

To,

Dr. Sunil Jalalpure,

KAHER'S Basic science and research centre,

Belagavi.

Subject : Permission to visit KAHER'S BSRC for VI sem students., 16/01/19

Respected sir,

With reference to subject cited above I Dr. Vidya Naik head of department of Zoology G.I. Bagewadi college Nipani, bring to your kind perusal that as a part of curriculum for the B.Sc VI Sem students, would like to visit the centre and get acquainted with the recent developments in basic and applied research. Kindly permit us for the same.

Thanking you.

PHINZFAL G.I. Begewadi Arts, Science & Commerce College, NIPANI.

Yours faithfully, Head Department of Zoolo K.L.E's G.L.B. College, National

Destensel Francisco

K.L.E SOCIETY'S GJ.BAGEWADI ARTS, SCIENCE, COMMERCE & PG'COLLEGE, NIPANI

Department of Zoology

B.Sc III rd Year (Student attendance to visit KAHER'S BRSC Belanavi)

Sl No.	Roll. No.	Register No	Name of the Student	Signature
1.	91.	S1617602	Abhishek Chogule	Alphyshely
2.	92.	S1617614	Amit Ammanagi	Abver
3,	93.	S1617620	Aarati Gore	Def
4.	94.	S1617624	Ashrafali Bargir	A
5.	95.	S1617630	Chaitali Hegade	Glegade
6.	96.	\$1617631	Chaitra Hasure	CDH.
7.	97.	S1617633	Devyani Khot	25 let
8.	98.	S1617634	Dhanashree Hasure	Duy.
9.	99.	S1617635	Dhanashree Chalake	Dhalake
10.	100.	S1617636	Dhanashree Patil	Dent
11.	101.	S1617637	Digvijay Nigave	1
12.	102.	S1617639	Divya Chandrakude	Park
13.	103.	S1617640	Gauravkumar R. Chougule	Www.
14.	104.	S1617641	Jayashree Balikai	Brai
15.	105.	S1617643	Komal Kadam	Bolona
16.	106.	S1617646	Madhuri shelake	Meld
17.	(107.)	S1617648	Malgond S. Patil	Sparit
18.	108	S1617650	Manoj R. Kumbhar	.04°
19.	109.	S1617655	Narendra R. Patil	Eroli .
20.	120.	S1617665	Nootan Kurane	N. C. (1. 2010

Sl No.	Roll No.		Name of the Student	Signature
21.	121.	S1617666	Nutan shettimani	08
22.	122.	S1617668	Omkar Magdum	OGDA) -
23.	123,	S1617671	Pallavi Sangane	SCHOOL .
24.	124	S1617675	Pooja Ghorpade	Ablant
25.	125.	S1617682	Chavan Pranali Prakash	Rhonor
26.	126.	S1617689	Pooja Karekar	Charles
27.	127.	S1617691	Rachana Patil	Prestall
28.	128.	S1617703	Sangram A. Sanadi	it by end
29.	129.	S1617706	Santosh Bilage	Sogui
30.	(130.)	S1617708	Seema Sanamannavar	Absent
31.	131.	S16176709	Sharad Banne	818
32.	132.	S1617711	Sheetal Magdum	ek as de
33.	133.	S1617712	Shivtej Chougule	Am
34.	134.	\$1617718	Shweta Sapakale	Shurelay
35.	1 35.	S1617719	Sneha Kamble	grely !
36.	136.	\$1617722	Soumya Patil	control
37.	137.	S1617729	Sunita P.Patil	Bito
38.	138.	S1617736	Tejas patil	B
39.	139.	S1617740	Vaishnavi Ajarekar	Yass
40.	140.	S1617741	Vaishanvi Ambale	rango .
11.	141.	S1617750	Yogesh Vanite	@6-J1:
22.	142	S1617663]	Pooja Reddy	Ahret

total = 42 Prevent = 36 specit = 06

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Ref. No.: GIB/

Date: 19/01/2019

REPORT ON -STUDY OG BIOTECH INSTRUMENTS

16.01. B.Sc V	of Bioi 2019	nstruments.					
16.01. B.Sc V	2019						
16.01. B.Sc V	2019						
	/I Sem		16.01.2019				
INIA/C		B.Sc VI Sem					
JNMC,Belagavi							
Smt.K.I.Pattan							
32							
Total	32	Teachers	02	Students	30		
Smt.G.A.Dhekale, Assistant prof							
9036140785							
To acquaint the student with advance techniques in Biological sciences. Practical skills of using instruments in Biology.							
Studen measur studen	it gets t re evali ts gets	he knowled; late and trea the knowled	it the h	uman body operating the			
	Smt.K 32 Total Smt.G 90361- To acq in Biol instrur Studen studen	Smt.K.I.Patta 32 Total 32 Smt.G.A.Dhe 9036140785 To acquaint ti in Biological instruments in Student gets t measure evaluated students gets	Smt.K.I.Pattan 32 Total 32 Teachers Smt.G.A.Dhekale, Assista 9036140785 To acquaint the student win Biological sciences. Prinstruments in Biology. Student gets the knowled measure evaluate and treastudents gets the knowled	Smt.K.I.Pattan 32 Total 32 Teachers 02 Smt.G.A.Dhekale, Assistant pro- 9036140785 To acquaint the student with adrin Biological sciences. Practical instruments in Biology. Student gets the knowledge of the measure evaluate and treat the histudents gets the knowledge of	Smt.K.I.Pattan 32 Total 32 Teachers 02 Students Smt.G.A.Dhekale, Assistant prof 9036140785 To acquaint the student with advance technin Biological sciences. Practical skills of usi		

Photo Gallery



Visit to JNMC.



Scientist Shri. Doddamani explaining the instruments.

Osparanant of Zoology GABagewadi NIPANI

K, L.E. Society's G. I. Bagewadi College, Nipani,

PRINCIPAL G.i. Magawadi Arts, Science & Commerce College, NIPANI.

Sl.No	Roll.No	VI Sem(P-I
1	91	Name of the student
2	92	Abhishek Chongale
3	93	Amit Ammanagi
4	94	Arati Gore
5	95	Ashrafali Bargir
6	96	Chaitali Hegade
7	97	Chaitra Hosure
8	98	Devyani Khot
9	99	Dhanashree hasure
10		Dhanashree Shalake
11	100	Dhanashri Patil
12	101	Digvijay Nigave
13	102	Divya Chandrakude
14	103	Guravkumar Chougule
15	104	Jayashri Balikai
	105	Komal Kadam
16	106	Madhuri Shelke
17	107	Malagoud Patil
18	108	Manoj Kumber
19	109	Narendra Patil
20	110	Nootan Kurane
21	411	Nutau Shettimani
22	112	Omkar Magadum
23	113	Pallavi Sangane
24	114	Pooja Ghorapade
25	115	Pranali Chavan
26	116	Pooja Karekar
27	117	Rachana Patil
28	118	Sangram Sanadi
29	119	Santosh Bilage
30	120	Seema Lagarianpavar
31	121	Sharad Banne
32	122	Sheetai Magadum
33	123	Shivatehj Chougule
34	1 24	Shweta Sapagale
35	125	Sneha kambale
36	126	Soumya Patil
37	127	Sunita Patil
88	128	Tejas B Patil
19	129	Vaishnyi Ajarekar
0	130	Vaishnavi Ambale
1	131	Yogesh Varute
2	132	Pooja Reddy



