

Date:05 /12/2021




To,
The Principal
Karnatak Arts, Science and Commerce College, Bidar

Sub: Request to grant permission to start add-on course on (ALGAL BIODIVERSITY) for the academic year 2021-2022 Reg.


Respected Sir,

As per the guidelines issued by IQAC, we would like to start the add-on course on "Course Name" from the academic year 2020-2021 with intake of 35 students. Please permit us to start the add-on course and do the needful.

Thanking You.


Head
Department of BOTANY
Karnataka College, BIDAR


PRINCIPAL
Karnataka Arts Sci. & Com. College
BIDAR-585401


Vice-Principal &
IQAC. Coordinator
Karnatak Arts, Science &
Commerce College, Bidar

K.R.E Society's
Karnatak Arts ,Science and Commerce ,Bidar
Department of Botany



Course Name: ALGAL BIODIVERSITY

Duration: 30 Hrs.

Course coordinator: Sri: Dr.Pooja Suryawanshi

Assistant Course coordinator: Dr.M.S Patil

Name of the Faculty members

- 1.. Dr.Pooja Suryawanshi**
- 2. Maanikrao Pandurang**
- 3.Dr.M S Patil**

Pooja
Dr. M. S. Patil

Minutes of meeting of institutional board of studies for

certificate course on

Algal Biodiversity

Held on 07 December 2021



the institutional BOS meeting of the Department of Botany for the add on course on "ALGAL BIODIVERSITY" held on 07/12/2021 at IQAC room at 11:00am.

Institutional BOS

S.N	Name	Institute	Designation
1	Dr. Rajsameersen Modi	Assistant Professor, Govt. First Grade college Kalburgi	External Expert member
2	Dr. Pooja Suryawanshi	Head Department of Botany Karnatak Arts, Science and Commerce College Bidar.	Chairman
3	Dr. M.S. Patil	Associate Professor, Department of Botany	Member Internal Expert
4	Manikrao Pandurang	Assistant Professor, Department of Botany	Member Internal Expert

In the beginning of the meeting the chairman of the Institutional BOS welcomed all the members and briefed them about the progress of the Department of Botany. the members expressed their highly appreciation and satisfaction about the courses and activities of the department.

After the institutional BOS discussed and resolved the following items

- **Item 1. Starting of the course on Algal Biodiversity.**

The BOS discussed the item and resolved to start the add on course from the month January 2021.

- **Item 2. Approval of the syllabus for certificate course**

The BOS discussed and approved the syllabus for add-on course on Algal Biodiversity

- **Item 3. Criteria for admission, regulation and policies to run the course and exam pattern.**

The BOS discussed and approved the criteria for admission and resolved that the student should have completed successfully B.Sc with science faculty, should be currently in B. Sc course with botany as a subject in Karnatak college, Bidar. In addition to this BOS also finalized the rules and regulations to smooth conduct of course and pattern.

Meeting of BOS is concluded with vote of thanks by Dr. Pooja Suryawanshi Head Department of Botany.

Members Present:

1. Dr. Rajsamarsen Modi



2. Dr. Pooja Suryawanshi



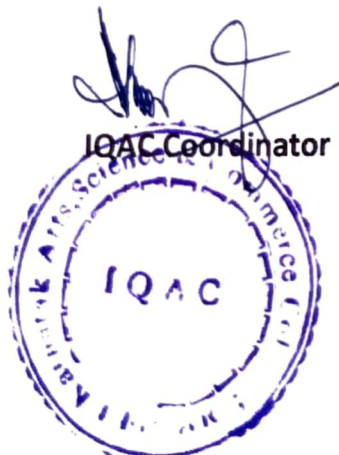
3. Dr. M.S. Patil



4. Manikrao Pandurang



H.O.D



Principal

WORK-DONE



NAME OF THE LECTURER	TOPICS COVERED AND METHOD USED	DATE
Dr.Pooja Suryawanshi	Introd ⁿ of Algae Structure of Algae General characteristics of Algae Ecological distribution range of thalass organisation in Algae.	Page 22/1/22 Page 8/1/22 Page 21/2/22
Dr.M S Patil	Classification of Algae Reproduction of Algae Isolation & culture of Algae.	Page Page Page



Manikrao Pundalik
pandurang

Economic Importance of Algal.

(Signature)

(Signature)
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Head of the Dept. of Botany
Karnataka College, BIDAR

(Signature)
PRINCIPAL

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BIDAR-585401

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Department of Botany

Certificate Course in

"Algal Biodiversity"



Course description:

Algae are one of the most diverse groups of living organism that are distributed in all across the oceans, rivers, ponds and lakes. Algae play an important role in maintaining aquatic ecosystem and form the base of food chain or food web. Algae are generally classified as rhodophyta (red algae), phaeophyta (brown algae) or chlorophyta (green algae) depending on their nutrient, pigments and chemical composition. They are considered as a source of bioactive compounds as they are able to produce a great variety of secondary metabolites with some also a valuable food resource too. Some of the algae are also been known to be pollution indicator and helps in reduction of industrial pollutants in rivers and other water sources.

The course aims to train B.Sc final year (Botany) students, in theoretical knowledge and practical skills for the establishment, characterization and maintenance of algal cultures in order to gain an advanced understanding of algal diversity, life cycle and physiology. The main focus of the course will be on fresh water algae but several other groups will be covered as well.



COURSE OUTCOMES:

The followings are minimum learning outcomes after completion of

"Algal biodiversity" course

1. Students can expose to the field of algal biodiversity
2. Understand the principles and diversity algae
3. Become familiar with making slides and visualization of slides under microscope
4. Learn the the different types of media and culturing methods and preservation methods



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Department of BOTANY



Date:18/12/2021

NOTICE

All the students are hereby informed that, the Department of **BOTANY** is starting the add-on course on (**ALGAL BIODIVERSIT**) from the (**18/12/2021**), interested students can enroll their names on or before (**25/12/2021**) in the Department of **BOTANY** .

Pooja
HOB

Head of the Dept of Botany
Karnataka College, BIDAR

[Signature]
Principal

PRINCIPAL
Karnataka Arts Sci. & Com. Co
BIDAR-585401

STUDENTS ENROLLMENT FOR CERTIFICATE COURSE(ALGAL BIODIVERSITY) 2021-22

S.No	NAME OF THE STUDENT	SIGNATURE
1	K. Malini	Malini
2	Neelavati Jaichandro	Neelavati
3	Hema Ashok	Hagar.
4	Nandini Sharanappa	Nandini
5	Rohit Jitube	Rohit
6	Swati Subhash	S
7	Soumya	Soumya
8	Bhavya	Bhavya
9	Ambika Shevanand	Ambika.
10	Pallavi Rajkumar	Pallavi
11	Vaishnavi Vamanrao	Vaishu
12	Diksha Jagannath	Diksha
13	Ashwini Dashrath	Ashwini
14	Aishwarya Soule	Aishwarya
15	Madhushree	Madhu
16	Christalata	Christalata.
17	Soebaktar	Soebaktar
18	G. Moksha	G. Moksha
19	Deeksha Vijaykumar	Deeksha
20	Usha	Usha
21	Shivanshree	Shivanshree
22	Syed Mebasar	Syed
23	MD Shabudin	Shabudin.
24	Kavya	Kavya
25	Bhavani	Bhavani
26	Lehita T	Lehita
27	Monica	Monica
28	Sanyukta	Sanyukta
29	Angelin	Angelin
30	Ishwari Subhash	Ishwari
31	Shilparani	Shilparani
32	M.O Faizan	Faizan
33	Malini Muskan	Malika muskan
34	Apoorva	Apoorva R.
35	Pooja Nigalengappa	Pooja



K.R.E. SOCIETY'S

KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE BIDAR

(Affiliated to Gulbarga University Kalburgi)

College with Potential for Excellence

ADMISSION FORM

Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses

&

IAS/IPS/NET/SET Coaching Classes

Name of the Department Botany Year 21-22

Name of the Student Apoorva

Father name Raghunath

Date of Birth 05-06-2021

Address for Correspondence Ashdoor

Tq. Dist Bidar



Semester/class : B.Sc. VI sem

Register No. : 83063081

Percentage of previous semester: 65%

Contact No. : 9019995740

E-Mail ID : apoorvareaghnath70@gmail.com

Course to be Joined: TAS

Signature of the Student

Apoorva R.

HOD/Coordinator

Head of the Dept of Botany
Karnataka College, BIDAR



COURSE TIME TABLE

DATE/TIME	8 TO 9	9 TO 10	10 TO 11	11 TO 12	3 to 5
2-01-22	Theory	Theory	Practical	Practical	Mini Project
8-01-22	Theory	Theory	Practical	Practical	Mini Project
24-01-22	Theory	Theory	Practical	Practical	Mini Project
2-02-22	Theory	Theory	Practical	Practical	Mini Project
12-02-22	Theory	Theory	Practical	Practical	Mini Project
15-02-22	Exam for both Theory and Lab				

B.Sc Students List and Attendance

SL.No	NAME OF THE STUDENT	2-01-22	8-01-22	24-01-22	2-02-22	12-02-22	15-02-22
1	MALINI	P	A	P	P	P	A
2	NEELAVATI JAICHANDRA	P	P	P	P	A	P
3	HEMA ASHOK	A	P	P	A	P	P
4	NANDINI SHARANAPPA	P	P	P	P	P	P
5	ROHIT JIROBE	P	P	A	P	P	A
6	SWATI SUBHASH	P	P	P	P	A	P
7	SOUMYA	A	P	P	P	P	P
8	BHAVYA	P	A	A	P	P	P
9	AMBIKA SHIVANAND	P	P	P	P	A	P
10	PALLAVI RAJKUMAR	P	P	P	P	P	P
11	VAISHANAVI VAMANRO	P	P	P	A	P	P
12	DIKSHA JAGANATH	P	P	A	P	A	P
13	ASHWINI DASHARATH	A	P	P	P	P	P
14	AISHWARYA SOULE	P	P	P	P	P	A
15	MADHUSHREE	P	A	P	P	A	P
16	CRITSLATA	P	P	P	P	P	P
17	SOEBAKTAR	P	P	A	P	P	P
18	G MOKSHA	A	P	P	A	P	P
19	DEEKSHA VIJAYAKUMAR	P	P	P	P	P	P



20	USHA	P	P	P	A		P
21	SHIVANISHREE	P	P	P	P		P
22	SYED MUBASHIR	A	P	P	P		P
23	MD.SHOBODIN	P	A	P	P		P
24	KAVYA	P	P	P	A		A
25	BHAVANI	P	P	P	P		P
26	LIKHITA T	A	P	P	P		P
27	MONICA	P	P	A	P		P
28	SANYUKTA	P	P	P	P		P
29	ANGELIN	P	A	P	P		A
30	ISHWAR SUBHASH	P	P	P	A		P
31	SHILPARANI	P	P	A	P		P
32	MD FAIZAN	P	P	P	P		P
33	BUSHRA ANJUM	A	P	P	P		P
34	APOORVA	P	P	P	P		P
35	POOJA NIJALINGAPPA	P	P	P	A		A

Page

Head of the Dept of Botany
Karnataka College, BIDAR



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Date: 9/2/2022

NOTICE

All the students enrolled in add-on course on (Algal biodiversity) are hereby informed that, the course examination is scheduled on (15/02/2022 at 11 am) without fail.


HOD
Head of the Dept of Botany
Karnataka College, BIDAR


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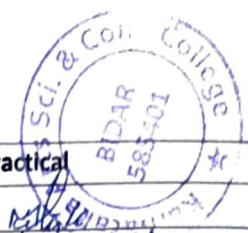
DEPARTMENT OF BOTANY

DATE:09 /02/2022

NOTICE :

All the students who have enrolled their name for certificate course in Algal biodiversity for the year 2021-2022 are here by informed to attend practical exam on 15/02/2022 at 2-3pm without fail.

Pooja
Head of the Dept of Botany
Karnataka College, BIDAR



SL.No	Name of the student	Theory	Practical
1	K.MALINI	Malini	Malini
2	NEELAVATI JAICHANDRA	Neelavati	Neelavati
3	HEMA ASHOK	Hagar	Hagar
4	NANDINI SHARANAPPA	Nandini	Nandini
5	ROHIT JIROBE	Rohit	Rohit
6	SWATI SUBHASH	S	S
7	SOUMYA	Soumya	Soumya
8	BHAVYA	Bhavya	Bhavya
9	AMBIKA SHIVANAND	Ambika	Ambika
10	PALLAVI RAJKUMAR	Pallavi	Pallavi
11	VAISHNAVI VAMANRO	Vai	Vai
12	DIKSHA JAGANATH	Diksha	Diksha
13	ASHWINI DASHARATH	Ash	Ash
14	AISHWARYA SOULE	Aishwarya	Aishwarya
15	MADHUSHREE	Madhu	Madhu
16	CRITSTLATA	Critstlata	Critstlata
17	SOEBAKTAR	Soebaktar	Soebaktar
18	G MOKSHA	Goksha	Goksha
19	DEEKSHA VIJAYAKUMAR	Deeksha	Deeksha
20	USHA	Usha	Usha
21	SHIVANISHREE	Shivanishree	Shivanishree
22	SYED MUBASHIR	Syed	Syed
23	MD.SHOBODIN	Shobodin	Shobodin
24	KAVYA	Kavya	Kavya
25	BHAVANI	Bhavani	Bhavani
26	LIKHITA T	Likhita	Likhita
27	MONICA	Monica	Monica
28	SANYUKTA	Sanyukta	Sanyukta
29	ANGELIN	Angelin	Angelin
30	ISHWAR SUBHASH	Ishwar	Ishwar
31	SHILPARANI	Shilparani	Shilparani
32	MD.FAIZAN	Faizan	Faizan
33	MALIHA MUSKAN	Malihamuskan	Malihamuskan
34	APOORVA	Apoorva	Apoorva
35	POOJA NIJALINGAPPA	Poojany	Poojany

Head of the Dept. of Arts &
Karnataka College, BIDAR

PRINCIPAL
Karnatak Arts, Sci. &
BIDAR-585002

KRE SOCIETY

KARNATAK ARTS, SCIENCE AND COMMERCE COLLEGE, BIDAR



DEPARTMENT OF BOTANY

ADD ON COURSE

SUB: ALGAL BIODIVERSITY

MAX. MARKS: 20

I. Answer the following questions.

4x5=20

1. Explain the structure of algae.
2. Explain classification of algae
3. Write down the reproduction methods in algae.
4. Explain general characters of algae.

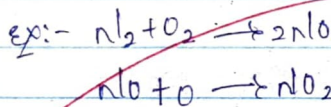
1) Ans: Biogeochemical cycle of nitrogen?

Biogeochemical:- cycle of nutrient in an ecosystem is a pathway by which a chemical substance move through biotic and abiotic components.

nitrogen cycle.

1) Amount of nitrogen in atmosphere is 78%. it is fixed by sum physical process like lightning or biological process by cyanobacteria or bluegreen alga.

2) physico-chemical process or non-biological process atmospheric nitrogen combines with oxygen during lightning and produces different nitrogen oxide.



3) These oxide get dissolved in rain water and form HNO_3 these acid reach to the soil surface and react with other mineral and form nitrate compound.

Biological Nitrogen:- The atmospheric nitrogen fix by cyanobacteria in the form of nitrate.

- nitrate taken by plant & pass through food chain after death of plant and chemical.
- The organic nitrogen in tissue is decomposed by several groups of decomposing and nitrifying bacteria which convert them into ammonia and nitrite respectively which are again use by plant
- Denitrifying bacteria convert nitrate into nitrogen which is released back into the atmosphere.

B.Sc Students Marks List



SL.No	Name of the student	Theory (20)	Practical(20)	Mini project (10)	Total marks (40)
1	K.MALINI	19	19	10	48
2	NEELAVATI JAICHANDRA	20	20	10	50
3	HEMA ASHOK	19	19	10	48
4	NANDINI SHARANAPPA	18	19	09	47
5	ROHIT JIROBE	19	19	10	48
6	SWATI SUBHASH	18	19	09	47
7	SOUMYA	18	19	09	47
	BHAVYA	19	19	10	48
9	AMBIKA SHIVANAND	19	19	10	48
10	PALLAVI RAJKUMAR	19	19	10	48
11	VAISHANAVI VAMANRO	18	19	09	47
12	DIKSHA JAGANATH	20	19	10	49
13	ASHWINI DASHARATH	20	19	10	49
14	AISHWARYA SOULE	18	19	09	47
15	MADHUSHREE	20	19	10	49
16	CRITSTLATA	20	19	10	49
17	SOEBAKTAR	20	19	10	49
18	G MOKSHA	18	19	09	47
19	DEEKSHA VIJAYAKUMAR	20	19	10	49
20	USHA	18	19	09	47
21	SHIVANISHREE	18	19	09	47
22	SYED MUBASHIR	18	19	09	47
23	MD.SHOBODIN	18	19	09	47
24	KAVYA	18	19	09	47
25	BHAVANI	18	19	09	47
26	LIKHITA T	20	19	10	49
27	MONICA	19	19	10	48
28	SANYUKTA	18	19	09	47


Rajya
Head of the Dept. of Botany
Karnataka College, BIDAR

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29	ANGELIN	19	19	10	48
30	ISHWAR SUBHASH	19	19	10	48
31	SHILPARANI	19	18	10	48
32	FAIZAN	19	19	10	49
33	MALIHA MUSKAN	18	18	9	45
34	APOORVA	18	18	9	45
35	POOJA NIJALINGAPPA	19	18	10	48

Pooja
Head of the Dept of Botany
Karnataka College, BIDAR


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Karnatak Arts, Sci. & Com. College
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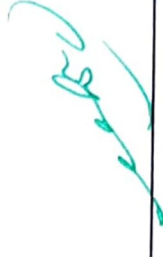
Karnatak Arts, Science and Commerce College, Bidar (KS)
Department of Botany



This is to certify that **NEELAVATI JAICHANDRA B.Sc V semester** has successfully completed certificate course on “**Algal Biodiversity**” during the year 2021 - 2022 offered by Department of Botany.



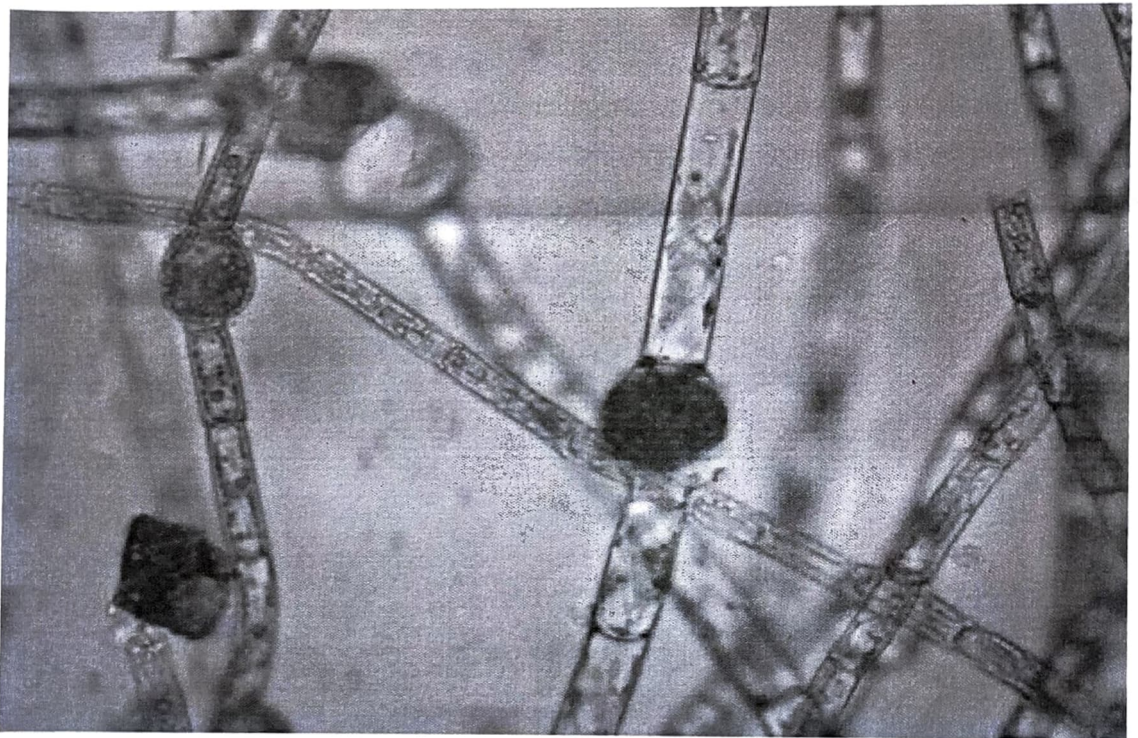
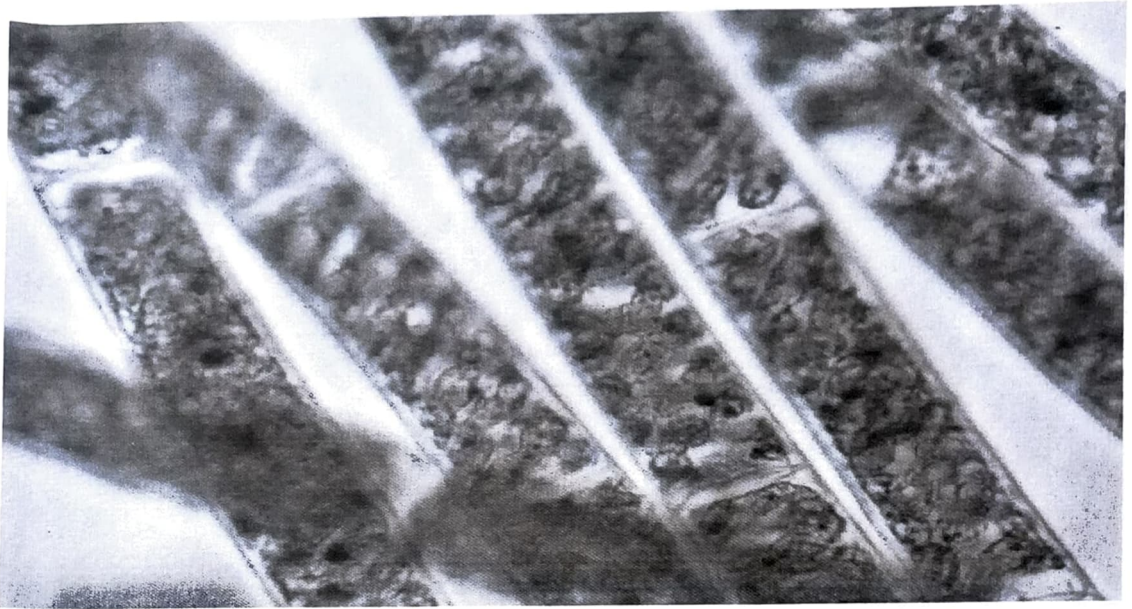
Head Dept. of Botany
Karnataka College, Bidar



Principal

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K.R.E. SOCIETY'S
KARNATAK, ARTS, SCIENCE AND COMMERCE COLLEGE, BIDAR



DEPARTMENT OF BOTANY

ADD-ON COURSE ON ALGAL BIODIVERSITY

Report

Name of the course: Algal Biodiversity

Name of the Department: Botany

Name of the B.O.S: Dr. Rajsamarsen Modi

Number of students: 35

BOS meeting date: 07/12/2021

Start date of course: 02/01/22

End date of course: 15/02/22

Department of Botany conducted add-on course on Algal Biodiversity. Algal Biodiversity helps students to understand the characters,, structure of different types of algae, ecological distribution of algae as well as the reproduction in algae it help the students to do research on algae. At the end we are conducted examination on algal biodiversity and declared the result.

Pooja

HOD



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Principal
Karnataka Arts Sci. & Com. College
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