

Syllabus for Certificate Course in Dairy Production and Technology

TOTAL DURATION: 20 HRS. DRB

Unit-I: Planning and maintaining desired cattle breed 05 Hrs.

Dairy farm planning Management: Challenges in setting up a dairy farm. Environment and facilities. Managing Dairy Cattle.

Breed selection: Breeds of cattle and buffalo, Native cow varieties, Indian exotic breeds their popularity and performance.

Nutritional requirements: Sources of feed, Temperate and tropical grasses. Forage production and pasture management.

Feed composition: Nutrients for milk production, Water, Protein, Fibre and Vitamins.

Unit-II: Housing and maternity management 05 Hrs. B.B.G.

Housing of Dairy Cattle: Dairy and shed design. Cow comfort Management. Cleaning Management. Animal signs Management. Dairy herd health, production and management (Cow and Buffalo).

Breeding Dairy Cattle: Cow health and reproductive performance. Artificial insemination and conception; Maternity management, The Lactation Cycle.

Common disorders in Dairy Cattle: Managing Dairy Facilities for sick and lame cows and buffaloes. Study of common diseases (Foot and Mouth disease, Mastitis, Wooden tongue, Buffalo pox, Deg nala disease).

Calf management: Common management procedures, calf diseases, vaccination, dehorning, weaning etc.

Unit-III: Milk products management 05 Hrs. SB

Milk products: Dairy products and their nutritive value. Common adulterants in milk and their detection techniques. Advanced analytical techniques in milk and milk products.

Milking Management: Gathering cow for milking, milking machines for smallholders, cleaning and sanitizing dairy equipment; milking procedure. Dry cow therapy; Milk filtration management. Milking Hygiene, Post-harvest milk quality.

Unit-IV: Business prospects, Bio security 05 Hrs. PAD

Dairy business profit strategies.

Biosecurity: Farm level economics affecting productivity and profitability.

Loan facilities: Available from Public sector/ Private Banks, NABARD; Govt. of Karnataka, Govt. of India etc.


IQAC Co-ordinator
GSS College, Belagavi


Principal
G.S.Sc. College, Belagavi


PRACTICALS:

1. Determination of fat (by acid digestion method) in Chenna/ Paneer.
2. Determination of fat in ice cream (Rose-Gottlieb method).
3. Determination of protein (Kjeldahl method) in ice cream.
4. Determination of fat content in Khoa.
5. Test for detection of Vanaspati in Ghee (Boudouins Test).
6. Detection of Vegetable fat in Ghee.
7. Visit to Livestock Breeding & Training Centre and Centralized Semen Collection Centre, and Buffalo breeding station, University of Agricultural Sciences, Dharwad.
8. Visit to Buffalo breeding station, University of Agricultural Sciences, Tegur, Dharwad.
9. Visit to Karnataka Milk Federation (KMF) Dairy, Mahantesh Nagar, Belagavi.
10. Visit to Veterinary Hospital, Hirebagewadi.

Recommended readings

1. Klaus, A. J. (2015) Dairy Farming: The Beautiful Way
2. Leitch, A. (2018) The Dairy Farm: Dairy Cattle Methods, and Dairy Farm Management.


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GSS College, Belagavi


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G.S.Sc. College, Belagavi

Biology Certificate Course
Biology

ATTENDANCE

ROLL 601-621

TERM

Date of Lecture Name of Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
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IQAC Co-ordinator
GSS College, Belagavi

Principal
G.S.Sc. College, Belagavi

Zoology Certificate Course
Zoology

ATTENDANCE

ROLL _____

16/11/23
23/11/23
24/11/23
30/11/23
01/12/23
12/12/23
11/12/23
17/12/23
18/12/23
19/12/23
25/12/23
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03/01/24
09/01/24
15/01/24
16/01/24

Date of Lecture Name of Student	ATTENDANCE																	ROLL											
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	Introduction to Dairy Tech.																												
	Milk, Milk Products, Nutritive Value																												
	Collection of Adulterants																												
	Milk Management																												
	Sterilization of Equipments																												
	Diseases in cattle																												
	Dairy herd health																												
	Production & management																												
	Maternity management																												
	The lactation cycle																												
	Artificial insemination																												
	Low health & high performance																												

To
The Principal
G.S.Sc. College, Belgaum

Date – 30/11/2022

Subject – Request to conduct Add on course on Tools and Skills for Scientific research.

Dear Respected Sir,

As per the request by students from P.G. Department of Botany, we are planning to conduct a certificate course, open for students of all the PG departments.

- Add on course on Tools and Skills for Scientific research

This course will be conducted diverse faculties of G.S.Sc College.

We are planning to charge fees of Rs. 1000/- per student for each course.

Maximum intake for each course is 25 -30 students.

Course work schedule -total 30 Hrs (4 hrs to 6 hrs per week. Timetable will be planned as per students availability)

After your approval we shall circulate official notice for all PG departments.

We request you to permit us to plan and conduct the course.

Thank you and regards

Yours faithfully




Rahul Prabhukhanolkar
Course Co-ordinator
P.G. Dept. of Environmental Science
G.S.Sc. College

Permitted.




30/11/2022



Co-ordinator,
Postgraduate Department of
Studies in Environmental Science
G. S. Science College, Belagavi





IQAC Co-ordinator
GSS College, Belagavi

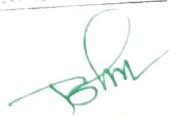


Principal
G.S.Sc. College, Belgaum





Co-ordinator,
Postgraduate Department of
Studies in Environmental Science
G. S. Science College, Belagavi



IQAC Co-ordinator
GSS College, Belagavi


Principal
G.S.Sc. College, Belagavi

Photographs of the certificate course sessions 2022-2023




Co-ordinator,
Postgraduate Department of
Studies in Environmental Science
G. S. Science College, Belagavi


IQAC Co-ordinator
G.S.S. College, Belagavi

Principal
G.S.Sc. College, Belagavi


Roll No.


Date of Lecture
Name of Student

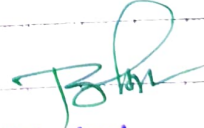
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
01*	Abhishek Pujari														
02*	Shashikiran Kanchhore														
03*	Ramesh .S. Huneshyd.														
04*	Annasaya Patil														
05*	Prashant H. Dasar														
06*	MUTTAPPA														
07	Krushnaji G. Madan														
08*	Vaishali V. Kumbhar														
09*	Aditya S. Zingde														
10*	Swati A. Khawan														
11*	Amilkumar V.L.														
12*	Amil S. Kori														
13*	Nikita R. Patil														
14*	Savita H. Badarachinn														
15*	Aishwarya. Karadi														
16*	Daneshwari Patil														
17*	Shivaleela M. Choudhari														
18*	Pooja Kamble														
19*	Pratidnya S. Jain														
20*	Shilpa P. Patil														
21*	Veekashri R. Gundappa														
22*	Kaveri B. Tillihal														
23*	Shruti B. Hanji														
24*	Sana. Gadampalli														
25*	Harshita S. Patil														
26*	Neeta Choudhari														
27*	Abhishek Shubakar														
28*	Trana. Nalhad														
29*	Kamala Nalhad														
30*	Prisha H. Mangaraj														

Roll No.	Date of Lecture Name of Student	6/12	7/12	8/12	12/12	13/12	14/12	15/12	16/12	19/12	20/12	21/12	22/12	26/12	27/12	28/12	29/12	30/12
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
32	Bhuvaneshwari M	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
33	Vidya S Tuppad	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
34	Veda Huchanatti	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
35	Tejashwari Potadar	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
36	Anilkumar M. Madur	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
37	XXXXXXXXXX	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank

* Vinayak Kulkarni


 Co-ordinator,
 Postgraduate Department of
 Studies in Environmental Science
 G. S. Science College, Belagavi


 IQAC Co-ordinator
 GSS College, Belagavi


 Principal
 G.S.Sc. College, Belagavi

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SKE Society's
G. S. S. College, Belagavi
Department of Computer Science

Certificate Course Syllabus

HTML and CSS
Teaching hours: 30hrs

Web Programming Introduction

Architecture of a website, Different technologies in making the website, Web Development Introduction

HTML-

History of HTML, What you need to do to get going and make your first HTML page, What are HTML Tags and Attributes?, HTML Tag vs. Element, HTML Attributes, HTML Basic Tags, HTML Formatting Tags, HTML Color Coding , Div and Span Tags for Grouping , Unordered Lists, Ordered Lists, Definition list, Image and Image Mapping , URL - Uniform Resource Locator, URL Encoding, < table >, < th >, < tr >, < td >, < caption >, < thead >, < tbody >, < tfoot >, < colgroup >, < col >, Using Iframe as the Target, < input >, < text area >, < button >, < select >, < label >, Title, Base, link, Styles, Script ,Meta ,HTML Meta Tag, XHTML, HTML Deprecated Tags & Attributes.

CSS2-Introduction

Benefits of CSS, CSS Versions History, CSS Syntax, External Style Sheet using < link >, Multiple Style Sheets , Value Lengths and Percentages , CSS Syntax, single Style Sheets, Multiple Style Sheets, Value Lengths and Percentages, ID Selectors, Class Selectors, Grouping Selectors, Universal Selector , Descendant / Child Selectors, Attribute Selectors, CSS - Pseudo Classes, background-image , background-repeat, background-position, CSS Cursor, color, background-color, text-decoration, text-align, vertical-align, text-indent, text-transform , white space , letter-spacing, word-spacing, line-height, font -family, font-size, font-style, font-variant, font-weight, list-style-type, list-style-position, list-style-image, list-style, CSS Tables, border , width & height, text-align, vertical-align, padding, color, Borders & Outline , Margin & Padding , Height and width, CSS Dimensions, CSS Visibility , CSS Display , CSS Scrollbars , CSS Positioning , Static Positioning , Fixed Positioning, Relative Positioning, Absolute Positioning , CSS Layers with Z-Index, The float Property , The clear Property, The clear fix Hack


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GSS College, Belagavi



Principal
G.S.Sc. College, Belagavi

Programming Lab

- 1) Write a html program to design a timetable and display it in tabular format.
- 2) Write a html program to design a mark sheet and display all your marks with subjects in a tabular format..
- 3) Write a html program to demonstrate use of ordered and unordered list.
- 4) Write a html program to apply various color to suitably distinguish key words. Also apply font styling like italics, underline and two other fonts to words you find appropriate. Also use header tags.
- 5) Insert an image and create a link such that clicking on image takes user to other page.
- 6) Design a CSS to create menu.
- 7) Design a webpage i.e. Bio data using CSS.
- 8) Write a program to create table and list using CSS.



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GSS College, Belagavi



Principal
G.S.Sc. College, Belagavi

S K E Society's
G.S.Sc College, Belgavi
Department of Computer Science
CERTIFICATE COURSE 2022-23
Subject : Basics of Python
Teaching Hours 30

UnitII Python Basics

10 Hrs

Introduction to Features and Applications of Python; Python Versions; Installation of Python; Python Command Line mode and Python IDEs; Simple Python Program. Identifiers; Keywords; Statements and Expressions; Variables; Operators; Precedence and Association; Data Types; Indentation; Comments; Built-in Functions- Console Input and Console Output, Type Conversions; Python Libraries; Importing Libraries with Examples; Illustrative programs.

UnitIII

10 Hrs

Python Control Flow: Types of Control Flow; Control Flow Statements- if, else, elif, while loop, break, continue statements, for loop Statement; range() and exit () functions; Illustrative programs.

UnitV

10 Hrs

Strings: Creating and Storing Strings; Accessing String Characters; thestr() function; Operations on Strings- Concatenation, Comparison, Slicing and Joining, Traversing; Format Specifiers; Escape Sequences; Raw and Unicode Strings; Python String Methods; Illustrative programs.

Lab programs

1. Write a Python program to Display the Message
2. Write a Python program to Perform Arithmetic Operations
3. Python program to find the area of a triangle whose sides are given
4. Python program to check whether the given number is even or no
5. Python program to find the circumference and area of a circle with a given radius
6. Python program to display the given integer in a reverse manner
7. Python program to find the sum of the digits of an integer using a while loop
8. Python program to display all integers within the range 100-200 whose sum of digits is an even number
9. Python program to check whether the given integer is a prime number or not
10. Python program to find the largest number in a list without using built-in functions
11. Python program to check whether a string is palindrome or not
12. Python program to check leap year


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G.S.Sc College, Belgavi


Principal
G.S.Sc. College, Belgavi

Govindram Seksaria Science

ATTENDANCE

Class : B.Sc. II sem
Subject : HTML & CSS

Div-A

College, Belagavi.

ROLL 451-468 TERM 2022-23

Name of the Teacher

Pranjali Pawsh

Roll No.	Date of Lecture Name of Student	P																	P																	Total Lectures Attended																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		35	36	37	38	39	40											
451	Aditya Tarale	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40												
452	Naik Maruti	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40											
453	Vivek Sutar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40												
454	Mahabuleshwar Patil	1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40											
455	Suraj Sutagatti	0	0	0	1	1	1	2	3	3	4	4	5	5	5	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
456	Rahul Jaskilkar	1	2	2	3	3	4	5	5	6	7	8	9	10	10	11	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40							
457	Swati Badiger	1	2	3	3	4	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40									
458	Mounesh Badiger	0	0	1	2	2	2	3	3	3	4	4	4	5	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
459	Poojwal Desai	0	0	0	0	0	1	1	1	1	2	3	3	3	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
460	Anushka Honale	1	2	2	3	3	4	4	5	5	6	7	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						
461	Aakash Belgaonkar	0	0	1	1	1	2	2	3	3	3	4	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
462	Prajakta Patil	1	2	2	3	3	4	5	6	7	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40									
464	Shravani Kutre	1	1	2	3	4	5	6	7	8	9	9	10	11	12	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40									
465	Sourabh Kugaji	0	0	0	1	1	1	2	3	3	3	3	4	4	5	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
466	Foappa Madur	1	2	3	3	4	4	5	5	6	6	6	7	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						
467	Samrudhi Pednekar	1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40											
468	Sujal Hukkenikar	1	2	3	3	3	4	5	6	7	8	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40								

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GSS College, Belagavi

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G.S.Sc. College, Belagavi

Govindram Seksaria Science

ATTENDANCE

Class : B.Sc. II sem

DIV - B

Subject : HTML & CSS

College, Belagavi.

ROLL 251-271

TERM 2022-23

Name of the Teacher

Shasvati Devai

Roll No.	Date of Lecture Name of Student	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total Lectures Attended
251	Vinay Mathod	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
252	Akshay Goswade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
253	Snehal Gadad	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
254	Pranjakta Salunkhe	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
255	Tushar Sawant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
256	Supreethkumar Kurbur	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
257	Ismailmagedum Mustajeeem	0	0	0	0	1	1	2	3	3	3	3	3	3	3	3	4	4	4	4	6	6
258	Wasang Prathmesh	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
259	Sakshi Gadkari	0	0	1	1	1	2	2	2	2	3	4	4	4	6	7	8	9	10	11	12	13
260	Prarav Patil	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
261	Nagaraj Kallibaddi	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
262	Shweta Dhorwadkar	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
263	Sujal Munchodi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
264	Kartik Alolkar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
265	Tejas Mayekar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
266	Padmeshree Saibagga	0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
267	Nihal Ramdurg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
268	Anuradha Hunji	1	2	3	4	5	6	7	8	8	10	11	12	13	14	15	16	17	18	19	20	21
269	Balaji Muragi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
270	Bhushan chopade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0
271	Nayraj Hiremath	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

IQAC Co-ordinator
G.S.Sc. College, Belagavi

Principal
G.S.Sc. College, Belagavi

Govindram Seksaria Science

ATTENDANCE

College, Belagavi.

ROLL

TERM

Class: B.Sc. IV sem

Subject: Certificate course on Python

Name of the Teacher
VRK & BUD

Roll No.	Date of Lecture Name of Student																																									Total Lectures Attended									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40										
401	Nivedita M Patil	1	2	3	4	5	6	6	7	8	9	10	11	12	12	13	13	14																																	
402	Samiksha Sanjay Mumtali	1	2	2	3	3	4	5	6	6	7	8	8	9	9	10	11																																		
403	Deepa K. Banahatti	1	2	2	3	4	5	6	7	8	9	10	11	12	12	13	14	14																																	
404																																																			
405	Vinesh Ramappa Medli	1	1	1	1	2	2	2	3	3	4	5	6	7	8	9	10	11																																	
406	Swaraj Nayyan Sambhakar				1	2	2	2	3	3	4	4	5	6	7	8	9	10																																	
407	Vedangi Govind Manolkar	1	2	3	3	3	4	5	6	6	7	8	8	9	10	11	12	13																																	
408	Naik Shambhavi Subhashchandra	1	2	3	3	3	4	5	6	6	7	8	8	9	10	11	12	13																																	
409	Pooja Shankar Katti	1	2	3	3	3	4	5	6	6	7	8	8	9	10	11	12	13																																	
410	Akash Narroji	1	1	1	2	3	4	5	6	7	7	7	8	8	9	10	10	11																																	
411	Abhinandan Gunuvayya Chiktonath	1	1	2	2	3	3	4	5	6	6	7	8	8	9	10	10	11																																	
412	Jibhu Subhas Doodwad	1	1	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14																																	
413	Vaibhav Prabhakar Chowgule	1	1	1	2	3	4	5	5	6	6	7	8	9	9	10	10	11																																	
414	Snihal Shikhar Murkute	1	2	2	3	3	3	4	4	5	6	7	8	9	10	11	12	13																																	
415	Nilesh Mahadev Jadhav	1	1	1	2	2	3	3	3	4	5	6	7	8	9	10	11	12																																	
416	Shrihari Dayanand Bhirge	1	2	3	4	4	4	5	6	6	7	8	9	10	11	12	13	14																																	
417	Prathmesh P Wani				1	1	1	2	2	2	3	3	3	4	4	4	4	5																																	
103	Shradha B Gudagi	1	2	3	4	5	5	6	6	7	8	9	10	11	12	13	14	15																																	
105	Spooiti Mulakar	1	2	3	4	5	5	6	6	7	8	9	10	11	12	13	14	15																																	

IOAC Coordinator
G.S.Sc. College, Belagavi

Principal
G.S.Sc. College, Belagavi

Department of Geology
CERTIFICATE COURSE
B.Sc. 1st and 2nd Year 2022-23(NEP)
APPLICATIONS OF REMOTE SENSING AND GIS

SYLLABUS

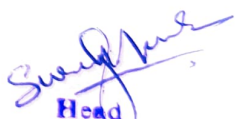
Units	Topics	Hours
THEORY: 14 HOURS		
1.	Elements of map, aerial photos: Types of scale, Latitude-Longitude and other information.	2
2.	Brief introduction to endogenic and exogenic process, types of landforms developed by wind, water and Glacier.	2
3.	Drainage patterns their types and significance in water management.	2
4.	Global Positioning System (GPS) basic principles and its field application.	2
5.	Aerial photography - Definition and terminologies: Swath, Overlap, Mosaic, Parts of Aerial photographs	2
6.	Electromagnetic spectrum. Visible spectrum, infrared, near infra-red, microwave. Band combinations MSS and FCC's.	2
7.	Remote Sensing - Definition and terminology. Types of satellites on the basis of their work. Indian satellites. Application of remote sensing and its significance in Geology, Disaster Management, Elements of image interpretation and keys	2
PRACTICALS – 17 hours		
1.	Exercise 1: Depth perception exercises	2
2.	Exercise 2: Stereo test and determination of scale	2
3.	Exercise 3: Identification of features on single vertical aerial photograph.	2
4.	Exercise 4: Interpretation of cultural details and preparation of land use map using satellite image.	2
5.	Exercise 5: Study of RADAR and SAR (Microwave) imagery and interpretation of features.	3
6.	Exercise 6: familiarization with Q-GIS for Digital Image Processing	3
7.	Exercise 7: GPS and GPS Essential app	3

FACULTY:

- Mr. Suraj Mense
- Mr. Yogesh Kutre


IQAC Co-ordinator
G.S.S. College, Belagavi


Principal
G.S.Sc. College, Belagavi


Head
Geology Department
G. S. S. College, Belgaum.

Department of Geology
CERTIFICATE COURSE
B.Sc. 1st and 2nd Year 2022-23(NEP)
APPLICATIONS OF REMOTE SENSING AND GIS
Course Structure

Course Outcome:

1. Students will be able to understand fundamentals of photogrammetry.
2. Student will be able to delineate associated features and interpret the landforms and other features.
3. Student will be able to use these techniques during field work, research such as water management analysis.
4. Student will be able to determine land use and land cover in various fields such as disaster management.
5. This course will provide platform to start the journey and excel in further understanding of remote sensing and GIS techniques.


Duration of the Course: The duration of the certificate course 30 hours.

Course pattern:

Certificate course will be focused on 17 hours of practical with hands on training and 14 hours of theory. Student has to pass a written test and submit assignment at the end of the course. Student will be awarded a certificate after completion of course.

Head
Geology Department
G. S. S. College, Belagavi


IQAC Co-ordinator
GSS College, Belagavi


Principal
G.S.Sc. College, Belagavi

CLASS B.Sc. 1st Sem Part B
Subject Application of RS & GIS

Name of Teacher
S. S. Manne / Y. M. Kulkarni

Roll No.	Date of Lecture	Name of Student	07/10/22	09/10/22	14/10/22	15/10/22	20/10/22	24/10/22	27/10/22	31/10/22	01/11/22	03/11/22	05/11/22	07/11/22	09/11/22	13/11/22	15/11/22	17/11/22	18/11/22	19/11/22	20/11/22	21/11/22	22/11/22	23/11/22	24/11/22	25/11/22	26/11/22	27/11/22	28/11/22	29/11/22	30/11/22	31/11/22	Total Lecture attended	
751	P. P. Prabhavalkar		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
752	B. S. Halgekar		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
753	P. S. Birje		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
754	R. D. Mashyaged		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
755	A. K. Madiker		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
756	N. Tedekar		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
757	D. S. Kunder																																	
758	V. B. Birje																																	
759	S. H. Ullagaddi		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
760	S. B. Aihole		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
761	K. R. Wagh		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
762	S. P. Mathurpati		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
763	R. T. Kamble		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
764	M. K. Dalvi		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
765	R. R. Mali		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
766	R. A. Tadhey																																	
767	S. R. Ukkali																																	
768	K. V. Pitakur																																	
769	R. V. Gawade		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
770	V. Gundi		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
771	S. Shenale		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		

IQAC Co-ordinator
GSS College, Belagavi

Principal
G.S.Sc. College, Belagavi

Head
Geology Department
G. S. S. College, Belagavi.

B.Sc. Jth Sem
(or 1st)

Govindram Seksaria Science.
ATTENDANCE

Batch - A

College, Belagavi. (P.U. / Degree)
ROLL 751 300-13 TERM 2022-23

Subject Applications of RS & GIS

Name of Teacher
S. S. Menke

Roll No.	Date of Lecture	Name of Student	7/11/22	11/11/22	14/11/22	18/11/22	21/11/22	24/11/22	28/11/22	29/11/22	5/12/22	7/12/22	14/12/22	16/12/22	23/12/22	24/12/22	30/12/22	2/1/23	6/1/23	9/1/23
751	P. T. Nruk		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
752	A. S. Kulkarni		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
753	S. R. Yadav		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
754	S. V. Uthure		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
755	A. S. Patil		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
756	A. R. Jamadar		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
757	B. S. Dandapur		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
758	S. M. Ajjappanwar		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
759	P. P. Kandre		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
760	A. P. Burede		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
761	P. P. Kawadkar		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
762	E. P. V. Rodrigues		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
763	R. G. Chavan		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

30/1/23	31/1/23	1/2/23	2/2/23	3/2/23	4/2/23	5/2/23	6/2/23	7/2/23	8/2/23	9/2/23	10/2/23	11/2/23	12/2/23	13/2/23	14/2/23	15/2/23	16/2/23	17/2/23	18/2/23	19/2/23	20/2/23	21/2/23	22/2/23	23/2/23	24/2/23	25/2/23	26/2/23	27/2/23	28/2/23	29/2/23	30/2/23	31/2/23	32/2/23	33/2/23	34/2/23	35/2/23	36/2/23	37/2/23	38/2/23	39/2/23	40/2/23			
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

IQAC Co-ordinator
GSS College, Belagavi

Principal
G.S.Sc. College Belagavi

Geology Department
G. S. College, Belagavi

Class: Bsc III & IVth SEM
 Subject: Vedic Mathematics (Certificate Course)

ROLL 1-47 TERM _____
 Name of the Teacher
Mrs. M.Y. Wali

Roll No.	Date of Lecture Name of Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Vaishnavi, R. Patil	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE
2	Nagaraj, A.K.Ki	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3	Vaishnavi, Madgekar	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA
4	Nidhi, K. Patil	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
5	Kajal, S. Bhoji	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ
6	Rishikesh, Jadhav	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ
7	Ashitosh, Bilogji	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
8	Shravani, R. Bhosale	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
9	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
10	Shilpa, Kadam	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH
11	Vasundhara, Halgekar	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH
12	Anita, J. Hubbali	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN
13	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
14	Rakesh, M. Jona	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ
15	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
16	Sagar, S. Benale	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
17	Haniprasad, S. Patil	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP
18	Rahul, A. Feoady	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA
19	Susmita, V.	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU
20	Nazim, S. Dhamanka	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Sahil, S. Malave	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
22	Aryan, G. Karkad	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK
23	Basavaraj, P. Jainker	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ
24	Jushar, R. Jadhav	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK
25	Prathamesh, G. Joshi	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ
26	Soun, J. Chingagudi	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
27	Mutyunjay, M. Hirnekar	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH
28	Abhishek, P. Kalkutaj	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK
29	Sungamesh, M. Panthaj	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
30	Mahabaleshwar, Allam	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA
31	Shrinivas, Salajure	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA

18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total Lectures Attended
VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	VE	40
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40
VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	40
NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	40
KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	40
RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	40
AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	40
SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	40
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	40
SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	40
VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	VH	40
AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	40
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	40
RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	RJ	40
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	40
SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	40
HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	40
RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	40
SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	40
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40
SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	40
AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	40
BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	BJ	40
JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	JK	40
PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	PJ	40
SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	40
MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH	40
AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	40
SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	40
MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	40
SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	40


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