

Geo - certificate

## Department of Geology

CERTIFICATE COURSE

B.Sc. 1<sup>st</sup> Year 2021-22 (NEP)

### PHOTOGRAMMETRY AND APPLICATIONS OF REMOTE SENSING

#### 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.

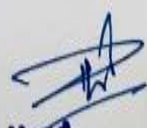
**Duration of the Course:** The duration of the certificate course extends over 40 hours

#### Course pattern:

Certificate course will be focused on 30 hours of practical with hands on training and 10 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.

  
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GSS College, Belagavi

  
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G.S.Sc. College, Belagavi

  
Head  
Department of Geology

# Department of Geology

## CERTIFICATE COURSE

B.Sc. 1<sup>st</sup> Year 2021-22 (NEP)

### PHOTOGRAMMETRY AND APPLICATIONS OF REMOTE SENSING


#### SYLLABUS

Units	Topics	Hours
<b>THEORY: 16 HOURS</b>		
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	3
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	3
<b>PRACTICALS - 24 hours</b>		
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.	4
4.	Exercise 4: Interpretation of cultural details and preparation of land use map using satellite image.	4
5.	Exercise 5: Study of RADAR and SAR (Microwave) imagery and interpretation of features.	4
6.	Exercise 6: familiarization with Q-GIS for Digital Image Processing	4
7.	Exercise 7: GPS and GPS Essential app	4

  
Dr. P. T. Hanamgond  
Course Coordinator

#### FACULTY:

- Dr. P. T. Hanamgond
- Mr. Suraj Mense
- Mr. Yogesh Kutre

  
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GSS College, Belagavi

  
Principal  
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CFC

subject: \_\_\_\_\_

16.7.22

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									
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409																																																		
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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. BBG

**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.

  
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**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.

PAD  
BB 9

**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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2021-2022 **Govindram Seksaria Science,**

Class : Certificate Course (Dairy production & Technology) **ATTENDANCE**

Subject : \_\_\_\_\_

Roll No.	Date of Lecture	Name of Student	Date																
			25.01.2022	01.02.2022	02.02.2022	13.02.2022	24.02.22	02/02/22	05/02/22	07/02/22	04/02/22	05/02/22	10/02/22	11/02/22	12/02/22	13/02/22	14/02/22	17/02/22	18/02/22
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
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606			01	02	03	03	03		04	05	06	07	08	09	10	11	12	13	
610			01	02	03	04	05		06	07	07	08	09	10	11	12	13	14	
611			01	02	02	03	04		05	05	06	07	08	09	10	11	12	13	
614			01	02	03	03	03		04	07	07	08	09	10	11	12	13	14	
615			00	00	00	00	01		01	02	02	02	03	04	05	06	07	08	
619			01	02	03	04	05		05	05	05	05	06	07	08	09	10	11	
621			01	02	03	04	05		06	07	07	07	08	09	10	11	12	13	
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623			01	02	03	03	04		05	05	05	05	06	07	07	08	09	10	
624			00	00	01	02	03		04	05	06	07	08	09	10	11	12	13	
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756			01	02	02	02	03		04	04	04	05	06	07	08	09	10	11	
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607			01	02	02	03	03		03	03	04	04	05	06	07	08	09	10	
609			01	02	03	03	03		04	05	06	07	08	09	10	11	12	13	

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Criteria 1.2.2 & 1.2.3

Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Skills and tools for scientific research and skill enhancement	NA	2021	1	1 year	20	20

  
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# TOOLS AND SKILLS FOR SCIENTIFIC RESEARCH 2021

With an overall aim Developing and fostering researcher's mindset at post-graduation level, Post graduate department of Botany and zoology started this course.

The course schedule began from 21<sup>st</sup> January 2021 and is successfully completed on 4<sup>th</sup> December 2021.


Detailed course schedule and feedback is attached here separately.

This course is specifically designed to equip our students with necessary tools and skills to undertake scientific research in different fields, to facilitate researcher's mindset and help foster a research-oriented approach to education

The course has been conducted by the experienced faculty along with practical hands-on sessions.

Course sessions in Classroom

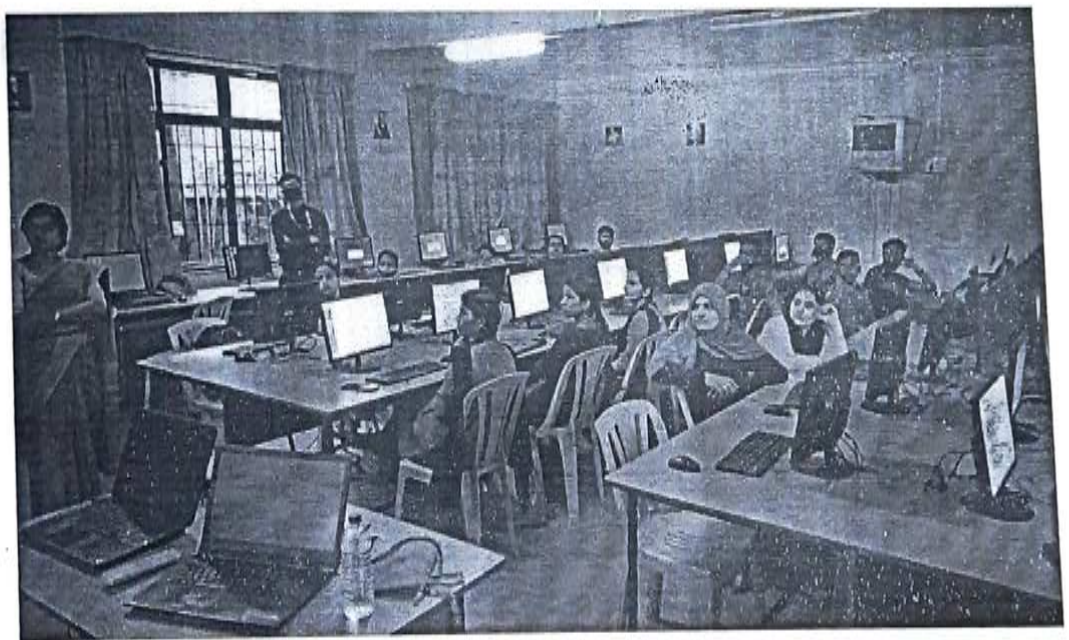


  
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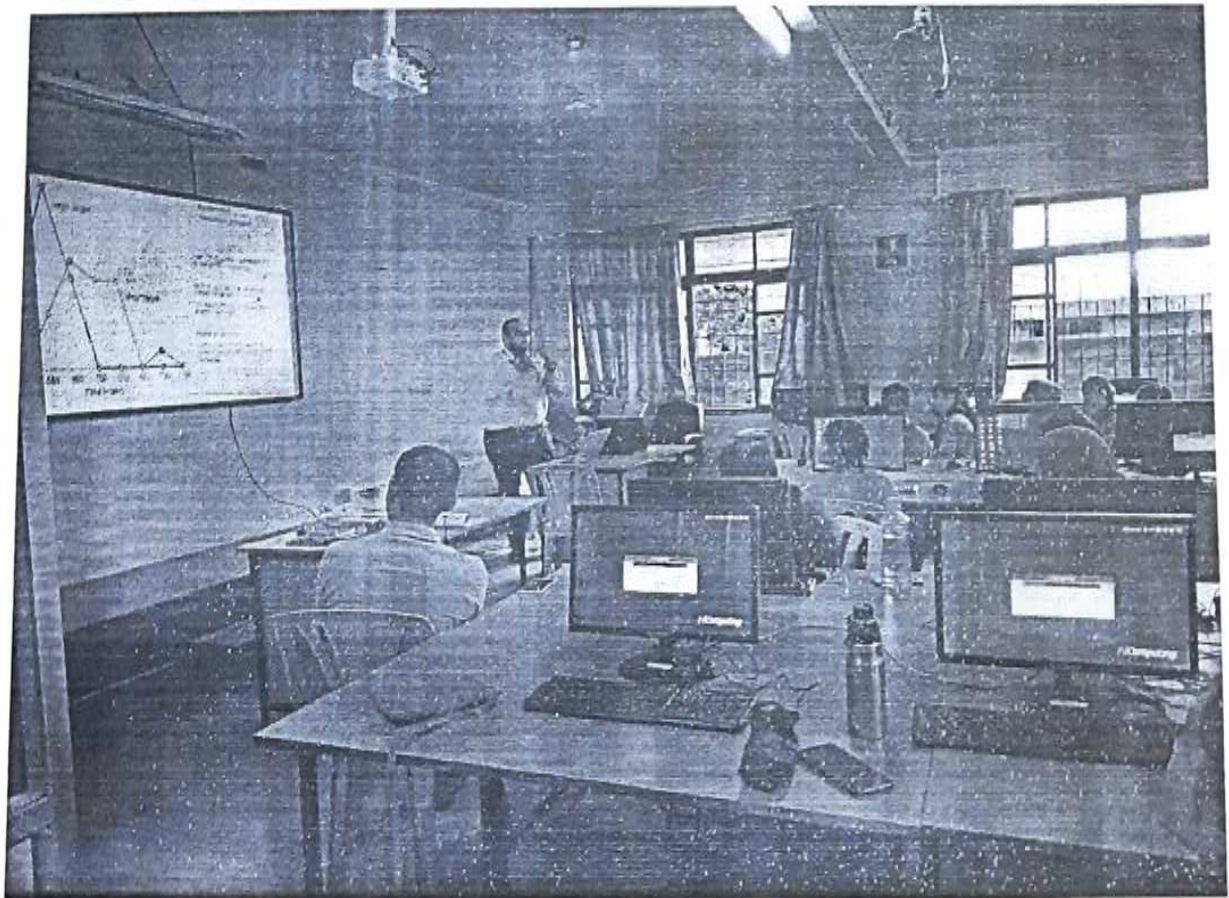
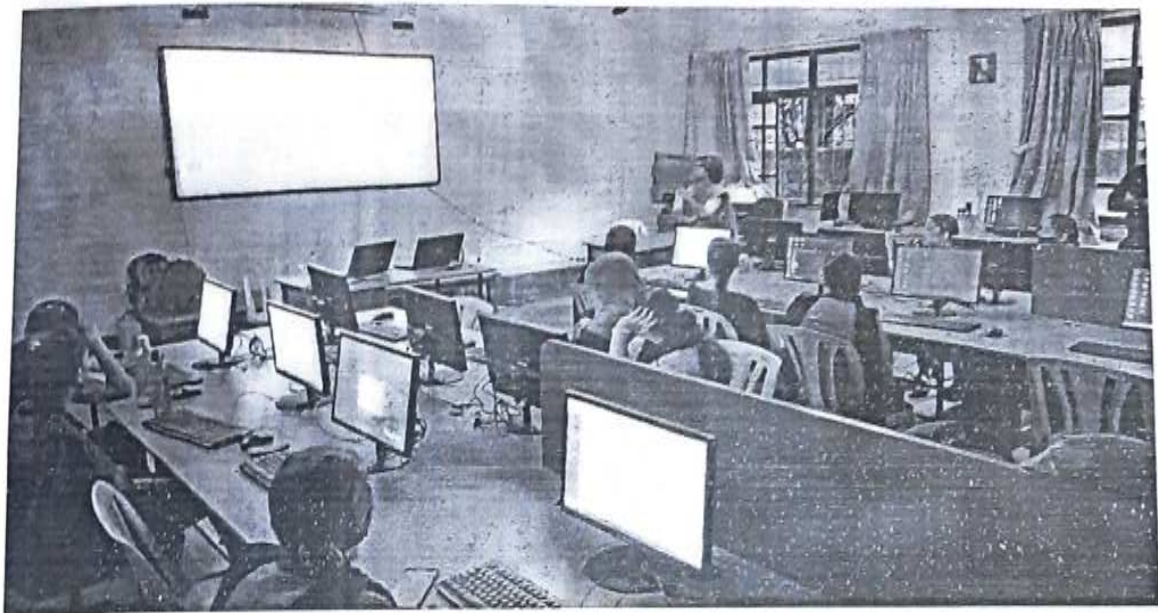


Hands on sessions in computer lab



  
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Students of the First batch of course, 2021



  
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### List of students Enrolled for Add on Course

Sl.No	Reg. No.	Name of the Candidate
1.	BT201202	AKSHATA A BANDEKAR
2.	BT201203	HEMANT RAYABAGI
3.	BT201209	SAMATA HIREGOUDAR
4.	BT201212	SHALONI S MAGADUM
5.	BT201213	SHARANU MURAGOD
6.	BT201218	SUMMAYYA MDGOUS SHAHAPURWALE
7.	BT201002	AKASH HIREMATH
8.	BT201004	APURVA PRAKSH PATIL
9.	BT201005	BHARATESH KALLAPPA MALAGANVI
10.	BT201007	DANESHWARI DUNDAGE
11.	BT201012	MEENAKSHI BURLI
12.	BT201015	NEEDA K MUNSHI
13.	BT201017	SHALINI KUMARSING RAJAPUT
14.	BT201019	SHANKARAYYA S HIREMATH
15.	BT201020	SHRUTI PATIL
16.	BT201021	SHWETA N JADHAV
17.	BT201023	SNEHA DARUR
18.	ZO201021	SHREYA.I. MATHPATI
19.	ZO201003	BHUVNESHWAR H. KENAGR
20.	ZO201015	PRAMATHI.B. HUNDEKAR

  
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### Schedule of the course sessions 2021

Session	Date	Time	Tpoic	Main Resource person
1	21 January 2021	3-5 pm	Induction Session by Prabhu Sir	S Y Prabhu
2	22 January 2021	3-5 pm	Develop researcher's mindset / Understanding research process	Rahul Prabhukhanolkar
3	28 January 2021	3-5 pm	Research process – Ideation to Publications, Types of research Ethics in research, Research Permits	Rutuja / Shital
4	29 January 2021	3-5 pm	Research Topic – conceptual idea to finalization - Referencing, Aim and Objectives,	Rahul Prabhukhanolkar
4a	19 November 2021	2.30 - 3 pm	Revisiting earlies sessions	Rahul Prabhukhanolkar
5	19 November 2021	3-4 pm	Searching information - how search engine works	Praveen Patil
6	19 November 2021	4-5 pm	What is referencing - Why, when , How, Mendeley Software	Rutuja Kolte
7	20 November 2021	11-1.30 pm	Mendeley software - hands on	Rutuja Kolte
8	20 November 2021	2 - 3 pm	Mapping Activity	Rahul Prabhukhanolkar
9	26 November 2021	2- 4 pm	Standard format for dissertation	Rutuja Kolte
10	26 November 2021	4- 5 pm	Proposal writing for funding opportunities -	Rahul Prabhukhanolkar
11	27 November 2021	11-1.30 pm	Google earth - mapping software	Rahul Prabhukhanolkar
12	27 November 2021	2.30-4 pm	Spread sheets - options , basic formula logic	Rahul Prabhukhanolkar
13	27 November 2021	4-5 pm	Finding appropriate ways for publication	Rutuja Kolte
14	03 December 2021	2 - 4 pm	Photo editing demo / Data Sharing - Networking - Collaborations - outreach	Rahul Prabhukhanolkar
15	04 December 2021	11-12 pm	Data Representation	Shashank Borkar
16	04 December 2021	12 -2 pm	Entire Google suit - G Drive / Forms / Docs / FEEDBACK	Shital / Rahul

Criteria 1.3.2

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
Project work		Paper 4.6		2022	All the students of class
study tour		Paper 1.6		2022	All the students of class
Visit to Krishi Mela				2022	19 students

  
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Criteria 1.3.3

<b>Programme name</b>	<b>Program Code</b>	<b>List of students undertaking project work/field work/internship</b>
Project work	M.Sc. Botany paper 4.6	All the students of class
Study tour	M.Sc. Botany paper 4.5	All the students of class
Visit to Krishi Mela	NA	19 students

  
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MSc. 1<sup>st</sup> semester Study Tour Report

(18<sup>th</sup> to 19<sup>th</sup> January 2022)

Place: Kankumbi, Sural, Delta and nearby regions.

We started our journey from G.S.Sc. College campus on 18<sup>th</sup> January 2022 at 8:00am. The staff members: Dr. Santoshkumar Jayagoudar, Ms. Shital A Desai, Mr. Mithun R, Mr. Utham Baroshi along with M.Sc. 1<sup>st</sup> sem students (41).

We reached Chigute around 11:00 am. Ms. Shital Desai guided students on local flora and vegetation. Then reached Chigute falls around 12:40pm and studied the local ecosystem, flora and vegetation. Then we reached Kankumbi temple at 2:00 pm.

We reached Delta Ecobus around 3:00pm. Around 4:30pm the local guide took all us for trekking nearby regions of Delta. The teaching staff members taught students about the vegetation types and Ms. Shital Desai introduced the local flora to the students. The guide took all us to the Plateau and students learnt about the plateau vegetation and ecosystem. Then we returned to the campsite around 6:30pm had a small break and conducted a group discussion for students so as to revise whatever they learnt whole day.

Next day on 19<sup>th</sup> January 2022 around 9:00am we left campsite for another trek. The local guide took us to the Sural Falls origin point. On the way to Sural falls students learnt about the riparian vegetation, types of forest & flora etc.

Later after reaching campsite all had a group discussion before lunch at 3:00pm. We started our journey back to Belgaum around 4:00pm and reached Belgaum around 6:00pm.

It was a great experience to spend time in nature and in various aspects this tour served the purpose of studying the different types of ecosystems, vegetation types & rich biodiversity in these regions.

Thanking you,

Yours sincerely,

Dr. Santoshkumar Jayagoudar

Ms. Shital A Desai

Mr. Mithun R



Co-Ordinator



P. G. Department of Botany

Co-ordinator

Postgraduate Department of  
Studies in Botany  
G. S. Science College, Belagavi



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Criteria 1.2.2 & 1.2.3

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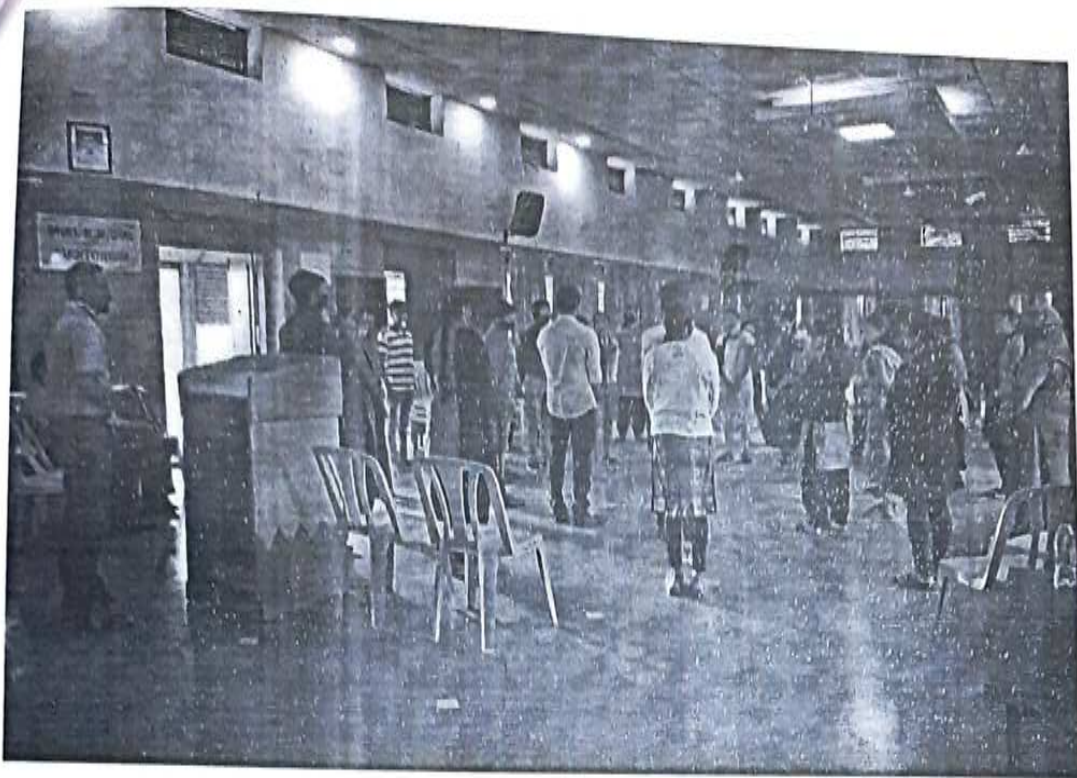
The course has been conducted by the experienced faculty along with practical hands-on sessions.

## Course sessions in Classroom



  
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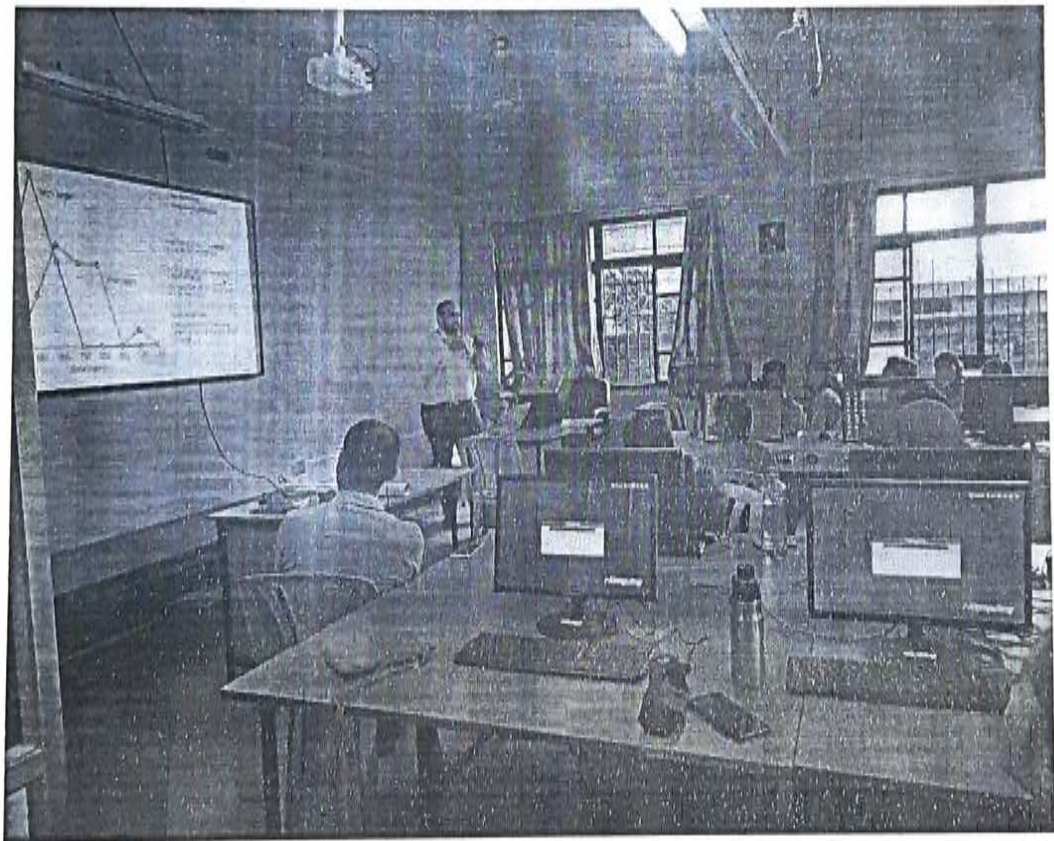


Hands on sessions in computer lab



  
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Students of the First batch of course, 2021



  
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14.	BT201019	SHANKARAYYA S HIREMATH
15.	BT201020	SHRUTI PATIL
16.	BT201021	SHWETA N JADHAV
17.	BT201023	SNEHA DARUR
18.	ZO201021	SHREYA.I. MATHPATI
19.	ZO201003	BHUVNESHWAR H. KENAGR
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3	28 January 2021	3-5 pm	Research process – Ideation to Publications, Types of research Ethics in research, Research Permits	Rutuja / Shital
4	29 January 2021	3-5 pm	Research Topic – conceptual idea to finalization - Referencing, Aim and Objectives,	Rahul Prabhukhanolkar
4a	19 November 2021	2.30 - 3 pm	Revisiting earlier sessions	Rahul Prabhukhanolkar
5	19 November 2021	3-4 pm	Searching information - how search engine works	Praveen Patil
6	19 November 2021	4-5 pm	What is referencing - Why, when , How, Mendeley Software	Rutuja Kolte
7	20 November 2021	11-1.30 pm	Mendeley software - hands on	Rutuja Kolte
8	20 November 2021	2 - 3 pm	Mapping Activity	Rahul Prabhukhanolkar
9	26 November 2021	2- 4 pm	Standard format for dissertation	Rutuja Kolte
10	26 November 2021	4- 5 pm	Proposal writing for funding opportunities -	Rahul Prabhukhanolkar
11	27 November 2021	11-1.30 pm	Google earth - mapping software	Rahul Prabhukhanolkar
12	27 November 2021	2.30-4 pm	Spread sheets - options , basic formula logic	Rahul Prabhukhanolkar
13	27 November 2021	4-5 pm	Finding appropriate ways for publication	Rutuja Kolte
14	03 December 2021	2 - 4 pm	Photo editing demo / Data Sharing - Networking - Collaborations - outreach	Rahul Prabhukhanolkar
15	04 December 2021	11-12 pm	Data Representation	Shashank Borkar
16	04 December 2021	12 -2 pm	Entire Google suit - G Drive / Forms / Docs / FEEDBACK	Shital / Rahul

  
**Principal**  
 G.S.Sc. College, Belagavi

  
**IQAC Coordinator**  
 GSS College, Belagavi

Date: 25/08/2022

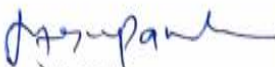
S. K. E's  
Govindram Seksaria Science College, Belagavi  
Department of Chemistry  
Certificate Course – Foundary Industries

Date	Name of the Lecturer	No. of Students Attended the lecture's	Practical's conducted
17/06/2022	Miss C.S.Bhagoji	43	-
17/06/2022	Miss C.S.Bhagoji	39	-
18/06/2022	Miss C.S.Bhagoji	36	-
24/06/2022	Miss C.S.Bhagoji	26	-
05/07/2022	Mrs C.V.Balikai	31	-
05/07/2022	Mrs C.V.Balikai	33	-
15/07/2022	Miss C.S.Bhagoji	35	-
16/07/2022	Miss C.S.Bhagoji	37	-
26/07/2022	Mrs C.V.Balikai	-	56
27/07/2022	Mrs C.V.Balikai	39	-
27/07/2022	Mrs C.V.Balikai	38	-
28/07/2022	Mrs C.V.Balikai	33	-
29/07/2022	Mrs C.V.Balikai	39	-
29/07/2022	Mrs C.V.Balikai	37	-
01/08/2022	Miss C.S.Bhagoji	38	-
05/08/2022	Miss C.S.Bhagoji	29	-
06/08/2022	Mrs C.V.Balikai	27	-
12/08/2022	Mrs C.V.Balikai	29	-
13/08/2022	Mrs C.V.Balikai	39	-

18/08/2022	Miss C.S.Bhagoji	42	-
19/08/2022	Miss C.S.Bhagoji	37	-

  
IQAC Coordinator  
GSS College, Belagavi

  
Principal  
G.S.Sc. College, Belagavi

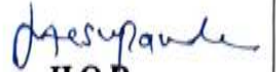
  
H.O.D  
Chemistry

Date: 05/02/2022

S. K. E's  
Govindram Seksaria Science College, Belagavi  
Department of Chemistry  
Certificate Course - Soil Analysis

Date	Name of the Lecturer	No. of Students Attended the lecture's	Practical's conducted
31/01/2022	Dr.S.M.Deshpande	25	-
02/02/2022	Mr.V.R.Bellad	22	-
03/02/2022	Mrs.U.M.Pawashe	25	-
04/05/2022	Mr.V.R.Bellad	20	-
11/06/2022	Mrs.U.M.Pawashe	25	-
14/06/2022	Dr.S.M.Deshpande	21	-
15/06/2022	Mr.V.R.Bellad	23	-
17/06/2022	Mrs.U.M.Pawashe	25	-
21/06/2022	Dr.S.M.Deshpande	23	-
22/06/2022	Mr.V.R.Bellad	22	-
23/06/2022	Mrs.U.M.Pawashe	23	-
24/06/2022	Mr.V.R.Bellad	25	-
28/06/2022	Mrs.U.M.Pawashe	19	-
29/06/2022	Mr.V.R.Bellad	22	-
5/07/2022	Dr.S.M.Deshpande	20	-
06/07/2022	Mrs.U.M.Pawashe	26	-
12/07/2022	Dr.S.M.Deshpande	24	-
13/07/2022	Dr.S.M.Deshpande	22	-
14/07/2022		24	-

	<b>Mrs.U.M.Pawashe</b>		
<b>19/07/2022</b>	<b>Dr.S.M.Deshpande</b>	<b>25</b>	<b>-</b>
<b>22/07/2022</b>	<b>Mrs.U.M.Pawashe</b>	<b>18</b>	<b>-</b>
<b>29/07/2022</b>	<b>Mr.R.T.Katamble</b>	<b>-</b>	<b>27</b>
<b>02/08/2022</b>	<b>Dr.S.M.Deshpande</b>	<b>-</b>	<b>28</b>
<b>03/08/2022</b>	<b>Mr.R.M.Patil</b>	<b>-</b>	<b>26</b>

  
**H.O.D**  
**Chemistry**

  
**IQAC Co-ordinator**  
**GSS College, Belagavi**

  
**Principal**  
**G.S.Sc. College, Belagavi**

**S.K.E Society's  
G.S.S College, Belgaum.  
Department of Computer Science  
List of the student(Certificate Course)  
2021-22**


**Class BSc1**

<b>Roll No</b>	<b>Name</b>
551	SWATI M JINARALI
552	SINDHU VITTAL BHUMANNAVAR
553	MANDIRA ARJUN TOPAKHANE
555	SOURABH VASANT BHANDURGE
556	ANISA ABDUL RAHEMAN MULLA
557	TEJASWINI BALARAM PAWASHE
558	SHIVANI NILESH DESAI
559	KISHOR VITHAL MAHAR
560	ASHWINI MAHADEV MARIHAL
561	RUCHITA BASAVARAJ BYAHATTI
562	GUIJARAHMAD FAKIRASAB NADAF
563	NITESH PATIL
564	SHRIKANT DEMAPPA BHANGI
565	NEHA VIJAY URANKAR
566	NAMRATA RAVI RAUL
567	RAKSHITA MEGHA
568	MALHARI BHIMRAO GURAV
569	POOJA KODAGEKAR
570	SUSHANT SHASHIKANT UTTEKAR
571	SANOBEER MOHAMMED UMAR ATHANI
572	MASEERAH ABDUL MUZAFEAR ANGOLKAR
573	VAISHNAVI RAMESH GHADAGE
574	PREETI PRABHAKAR PATIL
575	MEGHA SADASHIV GURAVANNAVAR
576	VAISHNAVI GUNDU CHIKKORDE
577	KAVERI IRAPPA MANEPPANAVAR
578	SAKSHI D TENDOLKAR
579	VAISHNAVI SUKHADEV SOUDAGAR
580	SHASHIDHAR MAHANTESH BALIGATTI
701	SAKSHI RAHUL PATIL

  
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702	PRASHANT RAMCHANDRA DESAI
703	PRANALI PANDURANG JADHAV
704	SANIKA KIRAN KOLEKAR
705	VITTAL SHANKAR LAKHANAGOUDA
706	AKASH KRISHNARADDI NAIK
707	SHUBHAM MINAPA GHADI
708	DRUV SAJAEV RACHOTIMATH
709	UDDHAV KRISHNA MOHITE
710	PRAFUL SANJAY PISE
711	NIKHIL JAYAWANT GUNJIKAR
712	VIGNESH ARUN CHOUGULE
713	KEDAR UMESH APTEKAR
714	HARSHAL BHARAMAJI PATIL
715	PRANJAL PINTO
717	ARUNA SHIVAJI DHARMOJI
718	PRAJWAL RAMAPPA BADIGER
719	SNEHA MAHESH NIRWANI
720	SAGAR A.PAWADI

  
**HEAD**  
Department of Computer Science  
G. S. Sc. College, Bulgaum



SKE Society's  
Govindram Seksaria Science College, Belgaum  
Department of Physics

**Title of the Course**  
**Certificate Course in Electrical Wiring and Servicing of Electrical Appliances**

**Syllabus**

**Theory: 20 hours**

**Practicals: 10 practicals of 2 hours each.**

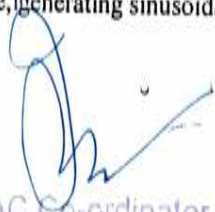
**Project teaching: Field project.**

**Total: 40 hours**

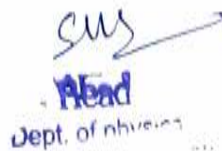
- A. Basic Concept of Electricity. (6 hours)**
1. Introduction to Electricity, an Atom, electricity Electron flow, conductors, Insulators. Sources of Electricity. (1 hr)
  2. Electrical terms: Electromotive force, Current, Resistance, Potential difference. Simple Electric circuit, Closed Circuit, Open Circuit and short circuit. (1 hr)
  3. Ohm's law Relationship between E, I and R in D.C. Circuits. Laws of Resistance, Resistivity. (1 hr)
  4. Connection of Resistances: Series Circuit Parallel Circuit, Series and Parallel Circuit. (1 hr)
  5. Calculation of power, amperage, Voltage, Wattage, kWh, Calculation of load energy consumption. (1 hr)
  6. Effect of Electric Current: Heating, Magnetic, Chemical, Electric Shock. Fuses. (1 hr)
- B. Electrical Materials (2 hours)**
1. Conducting materials: Copper, Aluminum, Lead, Tin, Nickel, Chromium, silver, Zinc, Brass, Mercury. Resistance materials: Nichrome, tungsten, Manganin, Constantan, Eureka, Carbon. (1 hr)
  2. Insulating Materials: Marble, Slate, Porcelain, Mica, Rubber, Bitumen, Asbestos, Wood, Paper, cotton, Jute, Silk, P.V.C., Transformer Oil and Air. Synthetic Materials: Resins, Plastics, Fibreglass, Bakelite, Paints, Varnishes. (1 hr)
- C. Electrical Wiring- I (4 hours)**
1. Safety precautions, treatment for electrical shock. General idea of wiring tools and their specifications. (1 hr)
  2. Types of wires. Terms used in Electric Cables, Conducting Materials, and Current carrying capacity of copper, aluminium Cables and stranded cables. (1 hr)
  3. Applications of power tools in wiring. Electrical Accessories, Mounting Accessories' specifications. (1 hr)
  4. Earthing systems, Testing of domestic wiring and installations. (1 hr)
- D. AC Circuits. (3 hours)**
1. Concept of AC, AC current, AC voltage, generating sinusoidal voltage. (1 hr)



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Dept. of physics

2. SINE Wave, cycle, period, frequency, Maximum value, average value, R.M.S. value Form factor. (1 hr)

3. Single phase A.C. Motors. Transformers. (1 hr)

**E. Electrical Wiring – II** (2 hours)

1. Filament lamps working, types. Fluorescent lamps, choke, starter, circuit diagram and uses. LED lamps (1 hr)

2. Study of different type of switch used in domestic installations, Selector Switches, D.P. Switches, Fan regulator, Dimmer, etc. (1 hr)

**F. Electrical Wiring – III** (3 hours)

1. Preparing load chart for AEH installation and selection of cables. Distribution board for lighting circuit. (1 hr)

2. Distribution board for Heating and Power installation. Calculation of Load of different circuits and selection of size of wires, cables. (1 hr)

3. Panel Board wiring, Meter Board, Single phase service mains, accessories and wiring. (1 hr)

**Practicals:**

1. Handling of all instruments (tool box). AC voltmeter and ammeter. Identification of phase, neutral and earthing.

2. One lamp, one switch and two lamps, two switches with MCB. Different types of fuses. Determination of fusing current by test. Inverter.

3. To control two lamps through two switches to burn dim or one bright, indicators. Two sockets with switches.

4. One room wiring with 6 lights with switches.

5. One room wiring with 6 lights with switches, 1 fan with regulator and two sockets.

6. Kitchen wiring with 3 lights with switches, 1 fan with regulator, 1 exhaust fan and three sockets, heating points (fridge, mixer, oven).

7. One room wiring with 4 lights with switches (2 lights with two way switches). 1 fan with two way switches.

8. Bathroom wiring, 1 light, 1 heating point, 1 socket, 1 exhaust.

9. Staircase wiring (single floor, double floor).

**Project:**

House wiring with 2 Bedroom, Hall, kitchen, bathroom and motor.

SUS

Head

Dept. of physics

G. S. S. College, Belagavi

Principal

G.S.Sc. College, Belagavi

IQAC Co-ordinator

GSS College, Belagavi

*SKE Society's*  
Govindram Seksaria Science Degree College, Belagavi

Department of Physics


PHYSICS CERTIFICATE COURSE

Subject: Electrical Wiring and Servicing of Electrical Appliances.  
Year: 2021-22

TIME	MONDAY	THURSDAY	FRIDAY	SATURDAY
11 a.m. – 12 p.m.	UNIT-C (VDK) UNIT-D (VAB)		UNIT-A (PSP/RSP)	UNIT- F (BMT)
12 p.m. – 1 p.m.				
1 p.m. – 2 p.m.		UNIT- E (RSK) UNIT-B (AAG)		

  
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GSS College, Belagavi

  
Principal  
G.S.Sc. College, Belagavi

  
head  
Dept. of physics  
G S. S. College, Belagavi

SKF Society's

Govindram Seksaria Science Degree College, Belagavi.

Department of Physics (Certificate Course)

Subject: Electrical Wiring and Servicing of Electrical Appliances.

List of Students

Year: 2021-22

ROLL NO	NAME OF THE STUDENT
101	Shraddha Gudagi
102	Kiran J Ingale
103	Spoorti Mulakar
104	M.Faiz Tashildar
105	Prasad. S. Revankar
107	Rahul. A. Kutre
108	Neha. D. Salukhe
109	Shekhar N
110	Keertiraj Gadakeri
111	Sheetal Sunthakar
112	Sakshi Patil
113	Samiksha
114	Chaitra Wadi
115	Samiksha Thokanekar
116	Changuna Patil
118	Akshay Hiremath
119	Yash V Shinde
120	Ashwini Mantur
121	Mamata Chougale
122	Venkatesh Kotagi
123	Kaviraj patil
124	Yallavva Naik
125	Pallavi Shintri
201	Omkar Patil
202	Sachin D. S
205	Manikant Hiremath
206	Chandahas Patil
207	Yukta Joshi
208	Prajwal Gavanal

Principal

IQAC Coordinator

SMY  
head  
of physics





S.K.E. Society's  
**GOVINDRAM SEKSARIA SCIENCE COLLEGE, BELAGAVI**  
Reaccredited at 'A' grade by NAAC with a CGPA of 3.03 in 4<sup>th</sup> cycle



**ISO**  
9001:2015  
ISO 9001: 2015 Certified Institute  
& Water Testing Laboratory by  
TUV SUD SOUTH ASIA PVT. LTD.,

**DEPARTMENT OF PHYSICS**

# CERTIFICATE

This is to Certify that

Mr./Ms. \_\_\_\_\_

of B.Sc Ist year of GSS college, Belagavi has successfully completed a **“CERTIFICATE COURSE  
IN ELECTRICAL WIRING AND SERVICING OF ELECTRICAL” APPLIANCES”**

\_\_\_\_\_  
**Mr. B. M. Topinkatti**  
Course Facilitator.

\_\_\_\_\_  
**Mrs. S. V. Kulkarni**  
Head,  
Department of Physics.

\_\_\_\_\_  
**Prof. B. L. Majekar**  
**PRINCIPAL**  
GSS College, Belagavi.

*SUS*  
Head,  
Dept. of physics  
G S. S. College, Belagavi

*B.L.M.*  
Principal  
GSS College, Belagavi

23  
Karishma. A. P. K.

# Physics Certificate Course

14/01/2022

Roll NO.	student Name	sign.
207	Yukta Joshi	<u>YJ</u>
111	Sheetal Senthakce	<u>Senthakce</u>
114	Chaitra uladi	<u>Chaitra</u>
115	Samiksha Thokanekar.	<u>Thokanekar</u>
121	Mamta chougule	<u>MChougule</u>
120	Ashwini. G. Mantur	<u>Mantur</u>
125	Pallevi .A. Shintori	<u>Shintori</u>
208	Prajwala. Gavanal	<u>Prajwala</u>
113	Samiksha	<u>Samiksha</u>
116	Changura Mahadev Patil	<u>Patil</u>
112	Sakshi Patil	<u>Patil</u>
101	Shradhalha. Geobagi	<u>Geobagi</u>
124	Yallavva. S. Naik	<u>Naik</u>
108	Neha. D. Salunke	<u>Salunke</u>
122	Venkatash. Kolagi	<u>Kolagi</u>
202	Sachin. D. S	<u>Sachin</u>
102	Kiran J. Injale	<u>Injale</u>
123	Karishaj. A. Patil	<u>Patil</u>
110	Kishorej K. Gadakari	<u>Gadakari</u>
107	Rahul A. Kutse	<u>Kutse</u>
101	Omkar. Patil	<u>Patil</u>
05	Manikant D. Hirenmath	<u>Hirenmath</u>
4	M. Faiz. Tahsildar	<u>Tahsildar</u>

Chandrashekar P. Patil  
Principal  
G.S.Sc. College, Belagavi

Patil  
IQAC Coordinator.  
GSS College, Belagavi

SMS  
Head  
Dept. of physics  
S. S. College, Belgaum

R.S. Purekar

# PHYSICS Certificate Course

31-01-2022

Roll No.	Name.	Signature.
206	Chandrabhas P. Patil	
104	M. Faiz. Tahildar	
205	Manikant. D. Hforemath.	
201	Omkar Patil	
113	Samiksha	
207	Yukta Joshi	
101	Shraddha. B. Gudagi	
116	Changuna M. Patil	
108	Neha. D. Salunke	
124	Yallavva. S. Naik	
125	Pallavi. A. Shintri	
1202	Pragnata S. Gavane	
190	Ashwini. G. Mantur	
103	Spoorti. M. Mulaker	
111	Shetal B. Surthalsar	
121	Mamta B. Chougule	
114	Chaitra Viladi	
115	Samiksha Thokanekar.	
122	Yenkaresh. Kotagi	
105	Prasad. S. Renankar	

Principal  
G.S.Sc. College, Belagavi

SUS

Head

Dept. of Physics  
G.S.Sc. College, Belagavi

lut

31/01/2022

IOAC Co-ordinator  
GSS College, Belagavi



DEPARTMENT OF MATHEMATICS

G. S.S. COLLEGE, BELAGAVI

VEDIC MATHEMATICS: CERTIFICATE COURSE REPORT FOR THE YEAR 2021-2022

Department of Mathematics has received the time table for the certificate course for BSc I year on 4 Jan 2022. Department has prepared the syllabus of 40 hrs. and Mrs. Madhumati Y. Wali and Miss. Manisha S. Patil were assigned the job of taking classes for certificate course.

No. of students participated: 42 (Roll no 301-341 and 451)

Members of the department started taking class from 29 Jan 2022. So far, 42 classes were conducted till 5 Dec 2022. Following is the syllabus covered by staff.

**1. Madhumati Y. Wali (Conducted 21 classes)**

Unit I: Introduction to Vedic Mathematics and Bharati Krishna Tirtha Swamiji, basic terms: Bases, Sub-bases, Purak, Rekhank, Vinculum Number, Beejank, Vedic check of addition/ subtraction/ multiplication/ division and addition, subtraction of vinculum no.

Unit II: Multiplication by Nikhil am Method-I, Nikhil am Method- II, Ekadhikena Parvenu examples.

Unit III: Duplex Number. Square root and cube root. Factorization by Vedic rules. Vedic rule. Vedic proofs to Pythagoras theorem. Sides of right-angled triangle by Vedic rule. Halayudhs Meruprasta. Boudhayan sutra, Aryabhata's contribution.

**2. Manisha S. Patil (conducted 21 classes)**

Unit I : Introduction to Vedic Mathematics and Bharati Krishna Tirtha Swamiji, basic terms: Bases, Sub-bases, Purak, Rekhank, Vinculum Numer, Beejank, Vedic check of addition/ subtraction/ multiplication/ division and addition , subtraction of vinculum no.

Unit II: Multiplication by Nikhilam Method-I, Nikhilam Method- II, Ekadhikena Purvena, Yavadunam Tavadunikritya, Vargmach yojayet, Antyayor Dashakepi, Eknyunena Purvena with examples.

Unit III : Duplex Numers Sqaring of numbers : Ekadhika, Yavadunam, Anurupyena, duplex method, Cubing by Nikhilam and Anurupyena methods with examples square root and cube root.

  
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We have successfully completed the course on 5 Dec 2022.

Please find the attendance report attached.

Staff in-charge of certificate course:

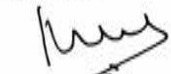
1. Madhumati Y. Wali



2. Manisha S. Patil



Signature of Head



(Prof. Nagasuresh M. S.)

Head Dept. of Mathematics  
GSS College, Belagavi



Principal  
G.S.Sc. College, Belagavi



IQAC Co-ordinator  
GSS College, Belagavi

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G S S COLLEGE, BELAGAVI.  
DEPARTMENT OF MATHEMATICS  
CERTIFICATE COURSE IN VEDIC MATHEMATICS

Total Hours: 40hrs

**UNIT I:** Vedic Mathematics and its period. Indian Mathematicians of medieval period and their contribution in brief. About Bharthi Krishna Tirtha Swamiji (Father of Vedic Mathematics) and his sutras and sub sutras. Bases and sub bases. Basic terms such as Ekadhika, Ekanyuna, deviation, purak.

Rekhank, vinculum numbers, Beejank, Addition and Substraction, Multiplication and division involving vinculum numbers by sutras, simple problems. 10hrs

**UNIT II:** Multiplication, Nikhilam method-1, Nikhilam method -2, Ekadhikena purvena, Yavadunum Tavadunikritya, Vargmach Yojayet, Antyayour Dashakepi, Ekanyunena purvena, Vrdhva Tiryak. Applications. 10hrs

**UNIT III:** Division, Dhvajank and Nihkilam method and their applications squaring of numbers: Ekadhika method, Yavanunam method, Anurupyena method, Duplex method, Cubing of numbers by Nikhilam and Anurupyena methods. Simple problems. 10hrs

**UNIT IV:** Duplex Numbers. Square - root and cube root. Factorization by Vedic rules. Vedic proofs to Pythagoras theorem. Sides of right-angled triangle by Vedic rule. Halayudh's Meruprasta (Raising power of a numbers). Boudhayan sutra, Aryabhata's contribution. 10hrs

**References:**

1. **Vedic mathematics** - Maths with smile part-II : Sindhu Prakashana  
533-2/VI Chikkansal Road Kundapura.
2. **Nagu Naguta Ganita** - Veda Ganita Bhaga-2 : Sindhu Prakashana  
533-2/VI Chikkansal Road Kundapura.
3. **V. G. Unakalkar** -Sheshachal Rao, Dandeli Edu Society, Dandeli.

  
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GSS College, Belagavi

  
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DEPARTMENT OF MATHEMATICS		
CERTIFICATE COURSE: VEDIC MATHEMATICS		
LIST OF STUDENTS OF BSC I & II -2021-22		
1	301	KIRAN SHRISHAIL CHOBARI
2	302	SONY SHANTINATH HUDED
3	303	JYOTI RAMESH BELLAD
4	304	SAKSHI SATISH KUGAJI
5	305	VEERESH RUDRAPPA GUNDAGAVI
6	306	BHARAT BASAPPA KUMBAR
7	307	ARVIND BASAVANT BENDIGERI
8	308	SOUNDARYA NADONI
9	309	PRANITA KRISHANA PATIL
10	310	CHITRA VITTAL KELKAR
11	311	HARSHADA KHOBANNA DUKARE
12	312	KIRTI KRISHNA GORAL
13	313	SAKSHI PARASHARAM GORAL
14	314	SHWETA SANAJY PATIL
15	315	ROHIT RAJU JAYANNACHE
16	316	PRIYANKA RAMESH DONGARE
17	317	SAKSHI PANDURANG GURAV
18	318	VAISHNAV PRABHAKAR MAJUKAR
19	319	MEGHA ADINATH DURGANNAVAR
20	320	ARUN SHANKAR MALAVI
21	321	OMKAR SUBHASH KOLLI
22	322	PRAJAKTA VIJAY PATIL
23	323	KARTIK
24	324	NIKITA RAJU CHOUGULE
25	325	SHWETA B JANGALI
26	326	SHREYA CHACHA TALEKAR
27	327	PRAJWAL M PATIL
28	328	RUTUJA M PATIL
29	329	GANGADHAR MAHENDRA TARIHAL
30	330	KARTIK KAMBLE
31	331	KIRTESH PATIL
32	332	SHRAVANI SHIVAJI GAVADE
33	333	SANDHYA SHANKAR DEVALATKAR
34	334	SUSHANT SALVI
35	335	VAISHNAVI B. MANGNAIK
36	336	VAISHNAVI G RAJPUT
37	337	JYOTI MAHANTESH GADADAVAR
38	338	SANIKA YALLAPPA LOHAR
39	339	APOORVA SHIVANAND KABBIN
40	340	VARDHASHREE V. SHIRAHATTI
41	341	ANUSHREE RAVASA BHOSAGI
42	451	SOURABH MANOHAR SAMBREKAR

IQAC Coordinator  
G.S.Sc. College, Belagavi

Principal  
G.S.Sc. College, Belagavi

Head Dept. of Mathematics  
GSS College, Belagavi

04<sup>th</sup> January 2022

Following is the distribution of students and time table for certificate course for B.Sc. First Semester  
**Rooms for classes: GS-5, GF-6 and respective departmental laboratories**

ROLL NO	DIVISION	TOTAL	COURSE SUB	TIME TABLE FOR CERTIFICATE COURSE DAY AND TIME			
101-200		24	PHY	MON -11-12	THU-01-02	FRI-11-12	SAT-11-12
201-250		7	PHY				
301-400	<b>A</b>	40	MAT	MON -11-12	THU-01-02	FRI-11-12	SAT-11-12
451-500		1	MAT				
551-600		29	CS	MON -11-12	THU-01-02	FRI-11-12	SAT-11-12
701-750		19	CS				
251-300	<b>B</b>	22	GEO	MON-12-01	TUE-01-02	WED-11-12	SAT-12-01
401-450		18	GEO				
501-550		36	BOT				
1-100	<b>C</b>	50	CHE	TUE-11-12	WED 12-01	THU-11-12	FRI-12-01
601-650		28	ZOO	TUE-11-12	WED 12-01	THU-11-12	FRI-12-01
651-700		5	ZOO				
751-800		13	ZOO				

  
Chairman

Time-Table Committee



  
Principal

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

  
Principal  
G.S.Sc. College, Belagavi

Sl. No.	Date of Lecture Name of Student	Lecture Numbers																																																										
		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																			
1	Kiran S. Chobari	0	0	0	1	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4														
302	Sony Huded	1	2	2	3	3	4	4	4	5	5	6	7	7	8	8	9	10	11	12	13	14	15	16	17	18	19	19	20	21	22	23	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40										
303	Jyoti R. Bellad.	1	2	2	3	3	4	4	4	5	5	6	7	7	8	9	11	12	13	14	15	16	17	18	19	19	20	21	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40												
304	Sakshi S. Kugaji	1	2	2	2	2	2	2	3	3	4	4	4	5	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										
305	Veeresh R. Gundegavi	0	0	1	1	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4									
306	Bhavat B. Kumbhar.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
307	Arvind B. Bendigeri	1	1	2	2	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5							
308	Soundarya C. Nadoni	0	1	2	3	4	5	5	5	6	6	7	8	8	8	9	9	9	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	23	23	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40							
309	Pranita K. 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	41	42	43	44	45	46	47	48	49	50								
310	Chitra V. Kelkar.	1	2	3	4	5	6	6	7	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	41	42	43	44	45	46	47	48	49	50					
311	Harshada K. Dukare	1	2	3	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	41	42	43	44	45	46	47	48	49	50								
312	Kirti K. Goral	1	2	2	3	3	4	4	5	6	7	8	9	10	10	11	11	11	11	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24	25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40									
313	Sakshi P. Goral.	1	2	2	3	3	4	4	5	6	6	7	8	9	10	11	12	13	14	15	15	16	17	18	19	20	21	22	23	24	24	25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50		
314	Shweta S. Patil	0	0	0	1	1	2	2	3	4	4	4	5	5	6	7	8	9	9	9	9	10	11	12	13	13	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
315	Rohit R. Jeyannd	0	1	1	1	1	2	2	2	2	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	22	23	24	24	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
316	Prinyanka R. Dongare	1	2	3	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	41	42	43	44	45	46	47	48	49	50								
317	Sakshi P. Gurat	1	2	2	2	3	3	3	4	5	5	5	6	7	8	8	9	10	11	12	12	12	13	14	14	15	15	15	15	15	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17			
318	Vaishav P. Majumkar	0	1	2	2	3	4	5	5	5	5	6	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	41	42	43	44	45	46	47	48	49	50		
319	Megha. Durgannavar	1	2	3	4	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	16	16	17	18	18	19	19	19	20	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
320	Arun S. Malavi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
321		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
322	Priyanka V. Patil	1	2	2	3	3	4	4	4	5	6	7	8	9	10	10	11	11	12	13	14	15	16	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
323		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
324	Nikita R. Chougule	1	2	3	4	5	6	7	8	8	8	9	9	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	41	42	43	44	45	46	47	48	49	50					
325	Shweta B. Jangali	1	2	3	4	5	5	5	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
326	Shranya Talekar	1	2	3	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	41	42	43	44	45	46	47	48	49	50								
327	Prajwal M. Patil	0	1	2	2	3	3	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	41	42	43	44	45	46	47	48	49	50		
328	Rutuja M. Patil	1	2	3	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	41	42	43	44	45	46	47	48	49	50								
329	Gangadhar M. T.	0	0	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
330	Kartik Kamble	0	0	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
331	Kirtesh S. Patil	0	0	1	1	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

BSS College  
Principal  
St. College

# Govindram Seksaria Science

## ATTENDANCE


College, Belagavi. (P.U. / Degree)


ROLL \_\_\_\_\_ TERM \_\_\_\_\_ Name of the Teacher \_\_\_\_\_

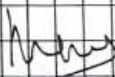
Class : \_\_\_\_\_

Subject : \_\_\_\_\_

Roll No.	Date of Lecture Name of Student																																			Total Lect Attend								
		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		
332	Shruvani S. Gowade	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			
333	Sandhya S. Desaiattkar	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			
334	Sushant K. Salavi	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			
335	Vaishnavi Mangrait.	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			
336	Vaishnavi Rajput.	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			
337	Jyoti M. Godadavar	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			
338	Sanika Y. Lohar	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			
339	Apoorva S. Kabin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
340	Varadashree Shrivasthi	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			
341	Anushree R. Bhangri	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	Sourabh Sambrekar	0	1	2	3	4	4	4	4	4	5	5	6	6	6	7	8	9	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		

  
**Principal**  
**G.S.Sc. College, Belagavi**

  
**IQAC Coordinator**  
**G.S.Sc. College, Belagavi**

  
**Head Dept. Mathematics**  
**G.S.Sc. College, Belagavi**