

GSS COLLEGE, BELGAUM
CERTIFICATE COURSE IN EFFLUENT TREATMENT PLANT

Department of Botany & Zoology

SYLLABUS

DURATION: 30 Hours

UNIT 1 **1Hour**

Scope of Effluent Treatment plant

UNIT 2 **3Hours**

Physical, chemical and Biological composition of water, Types of Effluents, Sources of water, Importance of water quality and its Standards for usage and Objectives of water treatment.

UNIT 3 **3Hours**

ETP basics, Types of Effluent treatment Plant, Effluent treatment plant design and Parts.

UNIT 4 **5Hours**

Effluent treatment plant operation, maintenance and safety, Waste water treatment: Primary, secondary and tertiary Treatment and Coagulation and flocculation treatment.

UNIT 5 **2Hours**


Chemicals and instruments used in ETP, Waste water sampling and analysis.

UNIT 6 **2Hours**

Physico chemical analysis of Water Data interpretation and Record Keeping.

PRACTICALS **14hours**

Collection and Testing of effluents from nearby Industries minimum six samples.


PRINCIPAL
G.S.Sc. College, Belagavi


IQAC Co-ordinator
GSS College, Belagavi

REGISTRATION LIST OF CERTIFIED COURSE ON EFFLUENT TREATMENT PLANT

<u>SR. NO.</u>	<u>NAME</u>	<u>CLASS</u>	<u>ROLL NO.</u>	<u>CONTACT No.</u>	<u>SIGN.</u>
01	Shrinidhi P. Hosur	BSc Vsem	575	9513267310	<i>[Signature]</i>
02	Neha J. Raut	BSc Vsem	533	9844360134	<i>[Signature]</i>
03	Ganraj Y. Angolkar	BSc Vsem	531	9900496198	<i>[Signature]</i>
04	Leena M. Kadam	BSc Vsem	529	9916114947	<i>[Signature]</i>
05	Nishalarmi B. K	BSc Vsem	535	7090620680	<i>[Signature]</i>
06	Naaz R. Pathar	BSc V Sem	539	9686840317	<i>[Signature]</i>
07	Shweta S. Kolkar	BSc V Sem	536	9739034484	<i>[Signature]</i>
08	Shweta A. Navalai	BSc V Sem	537	8660376143	<i>[Signature]</i>
09	Madhu V. Padalale	BSc V Sem	538	7022182163	<i>[Signature]</i>
10	Daneshwari S. Durdage	BSc V Sem	507	9482156097	<i>[Signature]</i>
11	Krutika M. Shiradkar	BSc V Sem	508	70190001121	<i>[Signature]</i>
12	Shubham B. Mulgund	BSc V Sem	519	7676223489	<i>[Signature]</i>
13	Disha S. Bargaonkar	BSc V Sem	509	9980673121	<i>[Signature]</i>
14	Vaishnavi V. Kudtarkar	BSc V sem	505	9482322935	<i>[Signature]</i>
15	Shruti P. Patil	BSc V Sem	506	9606384067	<i>[Signature]</i>
16	Kiran V. Naregavi	BSc V Sem	504	7406833299	<i>[Signature]</i>
17	Sonali B. Chopade	BSc V Sem	510	9535148436	<i>[Signature]</i>
18	Pooja V. Dikki	BSc V Sem	532	9108743752	<i>[Signature]</i>
19	Bhagyachree V. Vijapurse	BSc V Sem	540	9483372431	<i>[Signature]</i>
20	Akhil A. Desai	BSc Vsem	552	9108082272	<i>[Signature]</i>
21	Kartik P. Desai	BSc Vsem	551	7795610852	<i>[Signature]</i>
22	Sourabh Gurjikan	BSc Vsem	524	7411671424	<i>[Signature]</i>
23	Mansi M. Anvekar	BSc Vsem	513	9743734827	<i>[Signature]</i>
24	Akash N. Gurav	BSc Vsem	553	7899093950	<i>[Signature]</i>
25	Sumit P. Melge	BSc Vsem	548	8139903612	<i>[Signature]</i>
26	Kajal L. Belgundkar	BSc V sem	511	6364755658	<i>[Signature]</i>
27	Pranali P. Gorral	BSc Vsem	512	9380106528	<i>[Signature]</i>
28	Snehal S. Raibagkar	BSc V Sem	534	9845425225	<i>[Signature]</i>
29	Rakshita A. Deshpande	BSc V Sem	514	8495034530	<i>[Signature]</i>
30	Akash D. Tejwari	BSc V Sem	515	9482157809	<i>[Signature]</i>
31	Aishwarya N. Giritimmanavar	BSc V Sem	502	9148991015	<i>[Signature]</i>
32	Kaustabh G. Bidarbhavikar	BSc V Sem	546	7090131094	<i>[Signature]</i>
33	Lavanya Heemath	BSc V Sem	570	9008974090	<i>[Signature]</i>
34	Akhila Konnur	BSc V Sem	568	9606787270	<i>[Signature]</i>

IQAC Co-ordinator
Belagavi
SSS College, Belagavi

SR.NO.

NAME

CLASS

ROLL No. CONTACT No.

SIGN

SR.NO.	NAME	CLASS	ROLL No.	CONTACT No.	SIGN
35	Rajashree L. Mittalmani	BSc V sem	569	9986074702	Patil
36	Aishwarya V. Deshpande	BSc V sem	566	9945645223	Patil
37	Kajal K. Kawilkar	BSc V sem	5235	7760401902	Patil
38	Sanjana B. Patil	BSc V sem	526	8867491864	Patil
39	Raghavendra S. Revankar	BSc V sem	516	9035453724	Patil
40	Wandukumar S. Patil	BSc V sem	555	9743048088	Patil
41	Omkar K. Yallurkar	B.Sc V sem	528	7795089317	Omkar
42	Soundarya R. Gudmali	BSc V sem	503	7899226200	Gudmali
43	Sachin S. Shet	BSc V sem	520	9035812137	Shet
44	Ramappa M. Bombri	BSc V sem	530	8951616427	Patil
45	Vijendra K. Desai	BSc V sem	547	897847549	Desai
46	Deepa B. Hanchinarni	BSc V sem	567	4829798287	Patil
47	Maheshwari S. Shivanaykar	BSc V sem	563	6360981994	Shivanaykar
48	Rani M. Wandihalli	BSc V sem	562	7349604262	Patil
49	Shivaloka S. Ullogaddi	BSc V sem	561	9353020122	Bhagaddi
50	Soumya M. Hanabasatti	BSc V sem	522	7204803866	Hanabasatti
51	Rashmi P. Patil	BSc V sem	521	6360748477	Patil
52	Pundalik Wagnan	BSc V sem	517	6361740783	Patil
53	Shrivatsa Haragapur	BSc V sem	518	8197105448	Patil
54	Sukanya S. Shirodkar	BSc V sem	560	7483337426	Shirodkar
55	Nikita M. Kesarkar	BSc V sem	501	9731891741	Patil
56	Pooja V. Kundari	BSc V sem	565	9164235844	Patil
57	Sushmita P. Fagare	BSc V sem	543	9483281351	Fagare
58	Vrushabh V. Kumbhar	BSc V sem	549	8123718816	Kumbhar
59	Karishda C. Karigar	BSc V	577	6363103544	Karigar
60	Saikumar A. Gutti	BSc V	574	7090580734	Gutti
61	Ramesh N. Kori	BSc V	576	7483776254	Kori
62	Prasad B. Hawalkar	BSc V	572	9663045362	Hawalkar
63	Gouspak M. Bankapur	BSc V	573	9113801530	Bankapur
64	Aishwarya R. Kallur	BSc V	578	8951277627	Kallur
65	Aishwarya M. Patil	BSc V	604	7019236978	Patil
66	Urmila B. Angalkar	BSc V	606	7259006991	Angalkar
67	Rutik A. Udkekar	BSc V	544	8904102674	Udkekar
68	Anusabha A. Jadhav	BSc V sem	542	8867545503	Jadhav

IQAC Co-ordinator
GSS College, Belagavi

Total → 31/08/2019 = Received

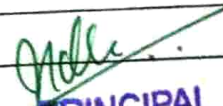
73 student = $73 \times 200 = 14,600/-$


SR No	Name	Class	Roll no	Contact Number	Sign
69	Daya. T. Sutar	BSc I Sem	558	9686204262	<u>Sutar</u>
70	Savita. D. Sutar	BSc II Sem	557	9148987929	<u>Sutar</u>
71	Santosh P. Bhajantri	BSc I Sem	571	81997270104	<u>S.P. Bhajantri</u>
72	Shradha B. Gauralkar	BSc II Sem	556	8197783382	<u>Bawalcar</u>
73	Apurva A. Bhatkande	BSc II Sem	545	7411995202	<u>Apurva</u>

Daya T. Sutar money returned Back
on 03/10/2020. → Rs 200/-

Maheswaris Shivnagarikal returned Back money
on 04/10/2020 → Rs 200/-

Savita D Sutar returned Back money
on 7/10/2020 → Rs 200/-


PRINCIPAL
G.S.Sc. College, Belagavi


IGAC Co-ordinator
GSS College, Belagavi



South Konkan Education Society's
GOVINDRAM SEKSARIA SCIENCE COLLEGE, BELAGAVI.

ACCREDITED BY NAAC AT 'A' GRADE

DEPARTMENT OF BOTANY AND ZOOLOGY

CERTIFICATE

This is to certify that

Mr/Miss _____


of B.Sc. I /II /III has successfully cleared the assessment of the job role of

'EFFLUENT TREATMENT PLANT' OPERATOR


with Grade _____

Date: _____

Head Department of Zoology
GSS College


Head Department of Botany
GSS College


Principal
GSS College


IQAC Co-ordinator
GSS College, Belagavi

5000
100
+
0.100

Department of Botany & Zoology

Certificate Course

in

GREEN HOUSE TECHNOLOGY

Total study hours including field visits: 30 Hours

Unit 1. INTRODUCTION.

Exam

3 hours + 1 hrs

Basic concept of protected cultivation.
Different types of Green house structures.
Roles and responsibilities of a Green house operator.

Pradeep Bag;

Unit 2. OPERATOR MAINTAIN VARIOUS GREEN HOUSE COMPONENTS-

3 hours + 1 hrs

Green house components and its operations
Maintenance of green house components.

Y. B D

Unit 3. MANAGE GREEN HOUSE OPERATIONS-

6 hours + 1 hr

Green house operations and field visit
Monitoring and documentation of green house operations.

P.M. B/
PA D.

Unit 4. MAINTAIN HEALTH AND SAFETY AT THE WORK PLACE-

6 hours + 1 hrs

Maintain clean and efficient work place and field visit
Render appropriate emergency procedures at the work place

Bagi / GRS

Unit 5. EMPLOYABILITY-

6 hours

Personal strengths and value systems
Digital literacy a recap
Money matters
Preparing for employment and self employment

B. L M /
Bagi

Unit 6. ENTREPRENEURSHIP SKILL-

6 hours

Understanding entrepreneurship
Preparing to be an entrepreneur

A. A. H /

Bagi


IQAC Co-ordinator
GSS College, Belagavi

PRINCIPAL
G.S.Sc. College, Belagavi

3 hrs duration.
Final Exam.

**CERTIFICATE COURSE
GREEN HOUSE TECHNOLOGY
LIST OF NAMES REGISTERED
2018-2019**

Sl NO	NAME	CLASS	ROLL NO	FEE PAID	MOBILE NO
1	SUMAN S AKKANTANGERMAL	BSC 5	539	1000/-Y	9050247289
2	SUMA R AMBADAGATTI	BSC 5	550	1000/-Y	7904369755
3	SUNITHA L TELI	BSC 5	448	.	
4	LAKMI U TELI	BSC 5	544	.	
5	SUSHANTA S HULIKAVI	BSC 5	547	.	
6	PALLAVI M JYOTI	BSC 5	546	.	
7	PRAVEEN KUMAR KAJKA	BSC 5	510	1000/-Y	
8	TUSHAR R LAD	BSC 5	513	1000/-Y	
9	PAYAN B KOLAJIGUDA	BSC 5	514	.	
10	RUTUJA B NANDIGOUDAR	BSC 5	506	1000/-Y	
11	VARADA G HARDIKAR	BSC 5	503	1000/-Y	
12	NARAYANI M BHANDARI	BSC 5	511	1000/-Y	
13	SAISHRADHA B PATIL	BSC 5	508	1000/-Y	
14	AKSHATA BHUGURAV	BSC 5	504	1000/-Y	
15	KIRAN PATIL				
16	SHRUTI U KAMBLE	BSC I	581	1000/-Y	9449479532
17	PRATAMESH S BHATKANDE	.	705	1000/-Y	9886658903
18	OMKAR N ANVEKAR		702	.	7795162380
19	VAISHALI M SALUNKE	BSC 1	525	1000/-Y	
20	ANUSHA A THAKKANNAWAR		555	1000/-Y	9483764428
21	ANAND S WARIMARAD	BSC 1	524	.	9164059050
22	ANUSHKA A KALGHATGI	.	716	1000/-Y	9535458598
23	RITIKA P MALGE	BSC 1	726	1000/-Y	8296349740
24	JAYMALA KAMBLE	BSC 1	712	1000/-B	91058881955
25	AISHWARYA A PATIL	BSC I	552	1000/-B	6362207431
26	MEGHA S KULKARNI	BSC I	502	.	8497041298


IQAC Co-ordinator
GSS College, Belagavi

27.	RUSHLI J GOURGOND	BSC 1	548	1000/-B	9845621387
28.	VAISHNAVI V KUDTARKAR	BSC 3	510	-	
29.	ROSHANI P PATIL	BSC 3	514	-	
30.	KIRAN V NAREGAVI	BSC 3	509	-	
31.	LAVANYA D HIEMATH	BSC 3	565	1000/-B	
32.	AKHILA KONNUR	BSC 3	574	1000/-B	

SL NO	NAME	CLASS	ROLL NO	FEE PAID	MOBILE NO
33.	AISWARYA DESHPANDE	BSC 3	577	1000/-B	
34.	RAGHAVENDRA S REVANKAR	BSC 3	519	-	
35.	OMKAR YELLUKAR	BSC 3	524	1000/-B	
36.	KARTIK DESAI	BSC 3	521	1000/-B	
37.	AKASH KUTTE	BSC 5	608	1000/-B	
38.	DANESHWARI SHIVSHANKAR DUNGADE	BSC 3	562	-	
39.	KAJAL B PATIL	BSC 3	530	-	
40.	SOUMYA HANABARATTI	BSC 3	529	-	
41.	VINAYAK PATIL	BSC 3	563	1000/-B	
42.	NANDITA NAKADI	BSC 1	528	1000/-B	
43.	SHRIYA BETAGERI	BSC 3	608	1000/-B	
44.	ABUSARIYA G	BSC 3	562	1000/-B	8970736221
45.	RUTUJA SHIVANGEKAR	BSC 5	561	1000/-B	
46.	MOHIT M PATIL	BSC 1	706	1000/-B	9481784676
47.	NIVEDITA C JADAR	BSC 1	327	500/- OFCE	9916309237
48.	RENUKA S BHATKANDE	BSC 1	312	1000/- OFCE	8884298977
49.	ASIF NAGARSI	BSC 5	568	500/-B	9110208586
50.	PRATIKSHA SANJAY HAWAL		551	1000/-	7619452791

Received the amount of 31,500/-

from Y.B. Dahi on 4/10/2018 on
account of Green home technology

Mdk
PRINCIPAL

G.S.Sc. College, Belagavi

AD
IQAC Co-ordinator
GSS College, Belagavi

Muljund
S.M. Muljund



South Konkani Education Society's
GOVINDRAM SEKSARIA SCIENCE COLLEGE, BELAGAVI
Accredited by NAAC at 'A' Grade




DEPARTMENT OF BOTANY & ZOOLOGY


Certificate


This is to certify that Mr/Miss _____
of B.Sc I / II / III has successfully cleared the assessment for the job role of GREEN HOUSE
OPERATOR with Grade _____.

Date: _____


Head Department of Botany
GSS College

Head Department of Zoology
GSS College


IQAC Co-ordinator
GSS College, Belagavi


Principal
GSS College

SKE SOCIETYS
GSS College, Belagavi

Certificate Course

CIRCULAR TO START CERTIFICATE COURSE

The department of Botany and Zoology is going to conduct a certificate course in Effluent treatment plant Operator for B.Sc. students in the month of August.

The course structure is as follows:

Total number of hours = 30

The course consists of:

- | | |
|--|-------|
| 1. Scope of Effluent treatment plant- | 1hrs |
| 2. Physical, Chemical and Biological composition of water- | 3hrs |
| 3. ETP basics- | 3hrs |
| 4. Effluent treatment plant operation- | 5hrs |
| 5. Chemicals and instruments used in ETP- | 2hrs |
| 6. Physico chemical analysis of water- | 2hrs |
| 7. Practicals- | 14hrs |

Certificates will be distributed at the end of the course

Interested students must enrol their names



Mr. B. L. Majukar
Head, Dept. Of Botany

Date: 31.08.2019



Principal
GSS College, Belagavi
PRINCIPAL
G.S.Sc. College, Belagavi

SKE SOCIETYS
GSS College, Belagavi

Certificate Course

CIRCULAR TO START CERTIFICATE COURSE

The department of Botany and Zoology is going to conduct a certificate course in Green house Operator for B.Sc. students in the month of October.

The course structure is as follows:

Total number of hours = 30

The course consists of:

- | | |
|--|------|
| 1. Green house- Introduction to green house technology - | 3hrs |
| 2. Operator maintain various green house components - | 3hrs |
| 3. Manage green house operations - | 6hrs |
| 4. Maintain health and safety at the work place- | 6hrs |
| 5. Employability - | 6hrs |
| 6. Entrepreneurship- | 6hrs |

Certificates will be distributed at the end of the course

Interested students must enrol their names



Mr. B. L. Majukar
Head, Dept. Of Botany

Date: 04.10.2018



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



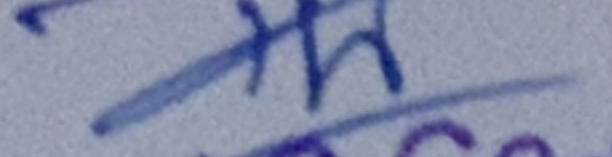
S.K.E Society's
GOVINDRAM SEKSARIA SCIENCE COLLEGE, BELAGAVI

DEPARTMENT OF GEOLOGY

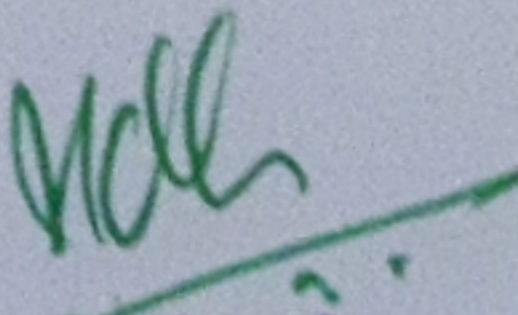
CERTIFICATE

This is to certify that Mr./Mrs. _____ of Class B.Sc. V semester has successfully completed the add on course **Applications of Remote sensing and GIS** for the year 2019-20 at G.S.Sc. College, Belagavi.

Dr. P. T. Hanamgond
Head, Dept. of Geology


IQAC Co-ordinator
GSS College, Belagavi

Dr. N. D. Hegde
Principal, G.S.S. College


Principal
G. S. Sc. College, Belagavi

SKE SOCIETY'S
G.S.S.COLLEGE, BELAGAVI
HOBBY CENTRE

CIRCULAR TO START CERTIFICATE COURSE

Hobby centre of G.S.S. College is going to conduct a Certificate Course in Personal Grooming for the girl students and lady staff members in the month of January. The classes will be taken on four consecutive Sundays. The course structure is as follows

Total no. of hrs. = 32

The course consists of

- 1) Yoga and Meditation –20 hrs.
- 2) Skin Care-3 hrs.
- 3) Hair Care –3 hrs.
- 4) Hair Styles and Make-up tips—3 hrs.
- 5) Healthy cooking – 3 hrs.

Certificates will be distributed at the end of the course.

Interested students and lady staff must enrol their names.

S.V. Kulkarni

Mrs S.V.Kulkarni
Chairperson Hobby Centre

Date: 2/1/2020.

[Signature]

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