

BLDEA'S

S.B.ARTS AND K.C.P.SCIENCE COLLEGE, VIJAYAPUR.



DEPARTMENT OF BOTANY
ONSITE TRAINING PROGRAMME

ON

SEWAGE TREATMENT AND WASTE WATER ANALYSIS.

(FOR THE ACADEMIC YEAR 2019-20)

Organized at

BLDE (Deemed to be University)


SHRI B.M.PATIL MEDICAL COLLEGE, HOSPITAL AND RESEARCH CENTRE.

Smt.Bangaramma sajjan campus, Sholapur Road, Vijayapur-586103, Karnataka, India.

From 16/09/2019 To 18/09/2019.

Recd
12-10-19


Principal,
S. B. Arts & KCP Sc. College,
Bijapur


IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.

B.L.D.E. A'S

S.B. ARTS AND KCP SCIENCE COLLEGE, VIJYAPUR

DEPARTMENT OF BOTANY

ONSITE TRAINING PROGRAMME

ON

SWAGE TREATMENT AND WASTE WATER ANALYSIS

Organized From 16/09/2019 to 18/09/2019

REPORT

AIM: To learn skill based technique on sewage treatment and waste water analysis.

OBJECTIVES: To motivate the students to set up an entrepreneurship in Sewage treatment and waste water analysis.

INTRODUCTION:

It has an important for environment and having many reasons like-

- ❖ Clean water is critical to plants and animals that live in water hence. this is important to fishing industry.
- ❖ By sewage treatment water pollution can be controlled.
- ❖ It has potential to reduce waste production of the country.
- ❖ The sludge controlled during the treatment process contains large amount of biodegradable materials.
- ❖ The methen harvested during the sewage burnt to generate electricity.
- ❖ The biodegradable material remained in the sewage treatment is dried. and turned in to the natural fertilizers.
- ❖ It helps to improve the Environmental health.
- ❖ This method helps to reduce the scarcity of water.

- ❖ Water analysis helps to measure the contamination of water.
- ❖ Water analysis helps to check the quality of water.

Sewage /effluent water collected from sugar industry and also from hospitals, laboratories that students were visited it can very good industrial setup for students to learn about the treatment of sewage.

Sewage treatment includes following stages:

Stage-1: Filtration

Stage-2: Equalization

Stage-3: Aeration

Stage-4: Sludge Re –circulation

Stage5: Clarification

Stage 6: Sludge pump

Stage 7: Filter press

Stage 8: Chlorination

TRAINING DETAILS:

DAY -1: 16/ 09/2019 (MONDAY)

Students will expose to learn the 1st and 2nd stages of sewage treatment in which students learnt about how to remove the solid waste like paper rags and solid waste bigger than 20 mm size are removed and the waste water coming from the hospitals and laboratories are then sent to equalization process in which equalizing flow of water in the tank is done and this step avoid septicity of sewage suspended particle settlement by Corse bubble aeration adopted by air diffuser in this equalizing tank.

DAY-2: 17/09/2019 (TUESDAY)

On second day students were trained about stage 3rd and 4th process that include aeration and sludge re-circulation in the aeration stage the students learnt about basic operations involved in the aeration process that is mixing of activated sludge (mixed liquor) transferred to the aeration tank AT1 and AT2 the effluent is aerated in aeration tank for minimum 20 hr after that sludge was recirculated to aeration tank for maintaining MLSS @ 400 mg/lit .

DAY- 3: 18/09/2019 (WENSADAY)

On third day students were trained about stage 5th and 6th I e clarifying and sludge pumping this step has given the knowledge about settling of suspended solids by gravity here they allow to settle the for minimum 2 hours in the clarifiers and the settled sludge is then transferred to sludge pump and in this 6th step the sludge transferred from clarifiers and re-circulate to aeration tank where sludge was pressed out by filter press and again it was re- cycled by at least 3 cycles with 1-2 hours

And even students were trained about the 7th and 8th stages like filter press and chlorination in filter press stage the open inlet valve to fill the press keeping all the plates and frames closed by locking the hydraulic piston the filter is again transferred to equalization tank and once in ten days they remove the sludge between the plates and the sludge is disposed as land fill and in the last the treated water was sent to the chlorinator chamber where chlorine gas is passed into the water to remove the bad odor and micro-organisms from the water.

CONCLUSION:

The 4 day on site training program was more beneficiary to achieve the objective i.e. sewage water treatment and waste water analysis the students were trained about the various stages of water treatment and the analysis of various parameters of waste water like BOD, COD and PH

INLET WASTE WATER PARAMETERS:

- 1 .BOD -350mg/lit
- 2 .COD -1000 mg/lit
3. PH - 6.0-7.0

OUTLET TREATED WATER PARAMETERS

1. BOD – 50- 100 mg/lit
2. COD - less than 250 mg/lit
3. PH - above 7

And once the water is treated it is used for garden purpose

This onsite training program has motivated the students to take up an entrepreneurship in the waste water analysis under environmental chemistry.


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Vijayapur.


Head of the Department

HEAD
Department of Botany
SB Arts & KCP Science College
VIJAYAPUR-586103.

| Sl.No. | Name of the Student | Roll Number |
|--------|------------------------|-------------|
| 1 | Aishwarya Gaikwad | 339 |
| 2 | Akshayakumar Tolanur | 325 |
| 3 | Annapoorna Talawar | 459 |
| 4 | Annapoorna Waddar | 113 |
| 5 | Anusha Mahishi | 369 |
| 6 | Apoorva Hiroli | 294 |
| 7 | Ayisha Mujawar | 263 |
| 8 | Revati Bagali | 262 |
| 9 | Basavaraj Gobbi | 330 |
| 10 | Basavaraj Patil | 326 |
| 11 | Chandrika Sajjan | 458 |
| 12 | Danamma Handiganur | 194 |
| 13 | Dattappa Maragond | 450 |
| 14 | Deepa Mamadapur | 141 |
| 15 | Mallikarjun Mallad | 374 |
| 16 | Neha Chougale | 291 |
| 17 | Nivedita Jogur | 192 |
| 18 | Pooja Sinkhed | 460 |
| 19 | Pooja Kanamadi | 251 |
| 20 | Pooja Hiragond | 316 |
| 21 | Poornima Halli | 193 |
| 22 | Pratiksha Nayikodi | 142 |
| 23 | Pratiksha Pattar | 190 |
| 24 | Prema Allolli | 248 |
| 25 | Prema Harijan | 261 |
| 26 | Priyanka Mamadapur | 215 |
| 27 | Raghuveer Karabhantnal | 431 |
| 28 | Rashmi Joshi | 297 |
| 29 | Roja Patil | 368 |
| 30 | Shambhavi Bhushetti | 292 |
| 31 | Shantappa Gundagi | 198 |
| 32 | Siddu Gaddi | 213 |

Continued...

| Sl.No | Name of the Student | Roll Number |
|-------|------------------------|-------------|
| 33 | Shrishti Biradar | 250 |
| 34 | Sushma Heralagi | 247 |
| 35 | Tippanagouda Halli | 331 |
| 36 | Shreya Madabhavi | 338 |
| 37 | Jyoti Nad | 430 |
| 38 | Preeti Gadyal | 323 |
| 39 | Rajeshwari Honawad | 237 |
| 40 | Aishwarya Kavital | 295 |
| 41 | Mallikarjun Mathapathi | 243 |
| 42 | Bharathi Mulawad | 191 |
| 43 | Sneha Katakadonda | 195 |
| 44 | Vikram Rathod | 446 |
| 45 | Sachin Roopanoor | 447 |
| 46 | Priya Patil | 296 |
| 47 | Sudha Talawar | 143 |
| 48 | Appaji Kamble | 332 |
| 49 | Sudha Hiremath | 216 |
| 50 | Sushma Biradar | 249 |



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BLDEA's
S.B.Arts & K.C.P Science College, Vijayapur.

DEPARTMENT OF BOTANY

Onsite-Industrial Training Programme

Students Attendance List.

Date: 16/09/2019 TO 18/09/2019


| Sl.No. | Name of the Student | Roll Number | 16/9/19 | 17/9/19 | 18/9/19 |
|--------|--|-------------------|-----------------------|----------------|----------------|
| 1 | Aishwarya Gaikwad | 339 | Aishwarya | Aishwarya | Aishwarya |
| 2 | Akshayakumar Tolanur | 325 | Akshay | Akshay | Akshay |
| 3 | Annapoorna Talawar | 459 | Annapoorna | Annapoorna | Annapoorna |
| 4 | Annapoorna Waddar | 113 | Annapoorna | Annapoorna | Annapoorna |
| 5 | Anusha Mahishi | 369 | Anusha | Anusha | Anusha |
| 6 | Apoorva Hiroli | 294 | Apoorva | Apoorva | Apoorva |
| 7 | Ayisha Mujawar | 263 | Ayisha | Ayisha | Ayisha |
| 8 | Revati Bagali | 262 | Revati | Revati | Revati |
| 9 | Basavaraj Gobbi | 330 | Basavaraj | Basavaraj | Basavaraj |
| 10 | Basavaraj Patil | 326 | Basavaraj | Basavaraj | Basavaraj |
| 11 | Chandrika Sajjan | 458 | Chandrika | Chandrika | Chandrika |
| 12 | Danamma Handiganur | 194 | Danamma | Danamma | Danamma |
| 13 | Dattappa Maragond | 450 | Dattappa | Dattappa | Dattappa |
| 14 | Deepa Mamadapur | 141 | D.S.M | D.S.M | D.S.M |
| 15 | Mallikarjun Mallad | 374 | Mallikarjun | Mallikarjun | Mallikarjun |
| 16 | Neha Chougale | 291 | Neha | Neha | Neha |
| 17 | Nivedita Jogur | 192 | N. Jogur | N. Jogur | N. Jogur |
| 18 | Pooja Sinkhed | 460 | Pooja | Pooja | Pooja |
| 19 | Pooja Kanamadi | 251 | Pooja | Pooja | Pooja |
| 20 | Pooja Hiragond | 316 | Pooja | Pooja | Pooja |
| 21 | Poornima Halli | 193 | Poornima | Poornima | Poornima |
| 22 | Pratiksha Nayikodi | 142 | P. U. N. | P. U. Nayikodi | P. U. Nayikodi |
| 23 | Pratiksha Pattar | 190 | Pratiksha | Pratiksha | Pratiksha |
| 24 | Prema Allolli | 248 | Prema | Prema | Prema |
| 25 | Prema Harijan | 261 | Prema | Prema | Prema |
| 26 | Priyanka Mamadapur | 215 | Priyanka | Priyanka | Priyanka |
| 27 | Raghuveer Karabhantra ^{sachin sajjan} | 41 214 | Raghuveer | Raghuveer | Raghuveer |
| 28 | Rashmi Joshi | 297 | Rashmi | Rashmi | Rashmi |
| 29 | Roja Patil | 368 | Roja | Roja | Roja |
| 30 | Shambhavi Bhushetti | 292 | Shambhavi | Shambhavi | Shambhavi |
| 31 | Shantappa Gundagi | 198 | Shantappa | Shantappa | Shantappa |

Continued..

| Sl.No. | Name of the Student | Roll Number | 16/9/19 | 17/9/19 | 18/9/19 |
|--------|------------------------|-------------|-------------------------|------------------------|------------------------|
| 32 | Siddu Gaddi | 213 | Gaddi | SRM | SRM |
| 33 | Shrishti Biradar | 250 | Biradar | SRM | SRM |
| 34 | Sushma Heralagi | 247 | Sushma | Heralagi | Sushma |
| 35 | Tippanagouda Halli | 331 | Tippanagouda | SRM | SRM |
| 36 | Shreya Madabhavi | 338 | SRM | SRM | SRM |
| 37 | Jyoti Nad | 430 | Jyoti | Nad | Nad |
| 38 | Preeti Gadyal | 323 | Preeti | Gadyal | Gadyal |
| 39 | Rajeshwari Honawad | 237 | Rajeshwari | Honawad | Honawad |
| 40 | Aishwarya Kavital | 295 | Aishwarya | Kavital | Kavital |
| 41 | Mallikarjun Mathapathi | 243 | Mallikarjun | Mathapathi | Mathapathi |
| 42 | Bharathi Mulawad | 191 | Bharathi | Mulawad | Mulawad |
| 43 | Sneha Katakadonda | 195 | Sneha | Katakadonda | Katakadonda |
| 44 | Vikram Rathod | 446 | Vikram | Rathod | Rathod |
| 45 | Sachin Roopanoor | 447 | Sachin | Roopanoor | Roopanoor |
| 46 | Priya Patil | 296 | Priya | Patil | Patil |
| 47 | Sudha Talawar | 143 | S.S.T | S.S.T | S.S.T |
| 48 | Appaji Kamble | 332 | Appaji | Kamble | Kamble |
| 49 | Sudha Hiremath | 216 | Sudha | Hiremath | Hiremath |
| 50 | Sushma Biradar | 249 | S.A.B | S.A.B | S.A.B |


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I/C
HEAD OF THE DEPARTMENT
HEAD
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DAY : 1



L LAT $16^{\circ}50'33''$ N
L LONG $75^{\circ}42'48''$ E

MONDAY 09.16.2019
LOCAL TIME 11:45:58

Lingad Gudi Rd, Bangaramma Sajjan Campus, Vijayapura, Karnataka 586103, India, Karnataka, Vijayapura, India, 586103

DAY : 2



LAT $16^{\circ}50'17''$ N
LONG $75^{\circ}42'59''$ E

TUESDAY 09.17.2019
LOCAL TIME 11:55:33

Shri Siddeshwara Rd, Sholapur, Vijayapura, Karnataka 586101, India, Karnataka, Vijayapura, India, 586101

DAY : 3



LAT 16°50'35" N

WEDNESDAY 09.18.2019

LONG 75°42'49" E

LOCAL TIME 13:14:01

Unnamed Road, Bangaramma Sajjan Campus, Vijayapura, Karnataka 586103, India, Karnataka,
Vijayapura, India, 586103