



Maratha Vidya Prasarak Samaj

G. M. D. Arts, B. W. Commerce and Science College, Sinnar, Dist. Nashik

Affiliated to Savitribai Phule Pune University, Pune

Id.No.PU/NS/ASC/013/1969

Best College Awarded by SPPU2012-13

AISHE:C-41292

www.gmdcollege.in

ISO 9001:2015 Certified College

sinnarcollege001@yahoo.com

INTERNAL QUALITY ASSURANCE CELL

CRITERION 1: CURRICULAR ASPECTS



CERTIFICATE COURSES 2020-21



Maratha Vidya Prasarak Samaj's
G.M.D. Arts, B.W. Commerce
& Science College, Sinnar

Tal. Sinnar, Dist. Nashik - 422 103 (M.S.) INDIA

Best College Award by Savitribai
Phule Pune University 2012-13

Dr. P. V. Rasal

(M.A., LL.B., Ph.D.)

Member : B.O.S. (Psychology)
Savitribai Phule Pune University

E-mail : rasalpundlik@gmail.com

Affiliated to Savitribai Phule Pune
University ID No. : PU/NS/ASC/013/(1969)

Junior College No. J.13.13.001

HTE Sevaarth ID - 06220100119_AST AISHE - C - 41292

Ref. No. 537/2023-24

Date : 13/07/2023

DECLARATION

This is to declare that the information, reports, true copies of the supporting documents, numerical data, provided links, institutional data, photographs etc. submitted/presented herewith is verified by Internal Quality Assurance Cell (IQAC) of this college and is correct as per the records. This declaration is for the purpose of NAAC accreditation of HEI for the 4th Cycle during the period from 2017-2018 to 2021-2022.

Date: 13/07/2023

Place: Sinnar

Dr. C. E. Gurule
Coordinator, IQAC
Co-ordinator
IQAC

G. M. D. Arts, B.W. Commerce & Science
College, Sinnar, Dist. Nashik 422103



Dr. P. V. Rasal
Chairman, IQAC and Principal

PRINCIPAL
G.M.D.Arts, B.W.Commerce and
Science College, Sinnar,Dist.Nashik



Maratha Vidhya Prasarak Samaj's
G.M.D. Arts, B.W. Commerce and Science College Sinnar

INDEX

ENROLLED STUDENTS AND ATTENDANCE 2020-21

Sr. No.	Particulars	Page No.
1	Soil and Water Analysis	1-14
2	Food Processing and Preservation	15-25
3	Livestock Production and Management	26-37
4	Online MOOC Programs like SWAYAM & NPTEL	38-60
5	Certificate Course in Basics of Yoga	61-70
6	Certificate Course in Enriching communicative competence in English	71-78
7	Certificate Course in Introduction to Information and Cyber Security	79-86

Maratha Vidya Prasarak Samaj Nashik
G.M.D. Arts, B.W. Commerce and Science College, Sinnar
Programme Report

Department : Chemistry

Activity : Certificate course on Water and Soil analysis.


Level : College level.

Organizer : Department of Chemistry, G.M.D. College, Sinnar

Date : 15/ 01/2020 to 15 /02/2020


Total Participant : Total: 15 Male: 05 Female: 10

Report : Department of Chemistry conducted certificate Course on 'water and soil analysis' for one month. Total 15 students are admitted to this course.


Mr. R. S. Pagar

HEAD

DEPARTMENT OF CHEMISTRY
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar


Dr. P. V. Rasal

PRINCIPAL

G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik



MARATHA VIDYA PRASARAK SAMAJ, NASHIK.
G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,
SIINAR, NASHIK-422103 (MS), INDIA.
NAAC Re-Accredited 'A' Grade College (CGPA 3.04)
ISO 9001:2015 Certified College



Department of Chemistry

Syllabus of Certificate course in Water and Soil Analysis

Theory :

Unit I- Introduction to Soil analysis, Types of soil, Soil pollutants, Role of soil testing for environment, Uses of soil analysis.

Unit II- Introduction to Water analysis, Types of Water, Water pollutants, Role of water testing for environment, Uses of water analysis.

Practicals :

Part I – Soil Analysis [Compulsory 10]

- 1) To determine P_H of given soil sample.
- 2) To determine nutrient content (NPK) of soil.
- 3) To determine salinity of given soil sample.
- 4) To determine conductivity of soil sample.
- 5) To determine sulphate of soil sample.
- 6) To determine total alkalinity of soil sample.
- 7) To determine soluble carbonates & bicarbonates of soil sample.
- 8) To determine nitrate of soil sample.
- 9) To determine exchangeable Ca of soil sample.
- 10) To determine exchangeable Mg of soil sample.
- 11) To determine exchangeable Na of soil sample.
- 12) To determine exchangeable K of soil sample.

Part II – Water Analysis [Compulsory 10]

- 1) To determine temperature, colour, odour & taste of water.
- 2) To determine hardness of water.
- 3) To determine P_H of given water sample.
- 4) To determine total alkalinity, carbonates & bicarbonates of water.
- 5) To determine TDS of given sample of water.
- 6) To determine turbidity of water.
- 7) To determine conductivity of water.
- 8) To determine redox potential of water.

- 9) To determine Acidity of water.
- 10) To determine carbon dioxide of water.
- 11) To determine dissolved oxygen of water.
- 12) To determine inorganic phosphorus of water.
- 13) To determine reactive silica of water.
- 14) To determine sulphate, chloride, calcium, magnesium, sodium, potassium of water.
- 15) To determine hydrogen sulphide of water.
- 16) To determine residual chlorine of water.
- 17) To determine oil & grease of water.

Mr. R. S. Pagar
Head,
Department of Chemistry

Dr. Dilip B. Shinde
Principal



Maratha Vidya Prasarak Samaj Nashik
G.M.D. Arts, B.W. Commerce and Science College, Sinnar
Department of Chemistry

Notice

Date: 06/01/2020

All the students studying in SY/ TY B.Sc. are hereby informed that the Department of chemistry is going to start a certificate course on 'Water and Soil Analysis' for the academic year 2020-21. The students who are interested should enroll themselves for the course. The course will start from 15/01/2020 to 15/02/2020. The participated students will get the certificate.


Mr. R. S. Pagar

HEAD
DEPARTMENT OF CHEMISTRY
Department of Chemistry
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar


Dr. P. V. Rasal
PRINCIPAL
G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik



**G.M.D. Arts, B.W. Commerce and Science
College, Sinnar, Nashik
Department of Chemistry**

Organized

Short Term Course in Water and Soil Analysis

CERTIFICATE


This is to certify that,

_____ from

_____ has successfully
Completed Short Term Course in Water and Soil Analysis
Conducted by Department of Chemistry on 15 January to
15 February 2020.


Mr. R. S. Pagar

HEAD
DEPARTMENT OF CHEMISTRY
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar


Dr. P.V. Rasal
PRINCIPAL
G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik

Soil and Water Testing Laboratory

2020-2021

As a part of community services, Department of Chemistry has innovatively started "Soil and Water Testing Laboratory" keeping the view the farmers problems regarding quality and productivity. The laboratory was set up in September 2019. So it becomes prime importance to examine the quality of soil and water which would help in increasing crop productivity and quality. The laboratory was set up with vision "No profit" basis. Therefore the soil and water testing are done free of cost. In this laboratory following parameters of soil and water was checked:

Sr.No	Soil Parameters	Water Parameters
1.	Bulk Density	Total Dissolved Salts
2.	Moisture Content	pH
3.	Specific Gravity	Electrical Conductivity
4.	Water Holding Capacity	Acidity and Alkanity
5.	pH	Oxidizable substances
6.	Total Soluble Salts	Chloride
7.	% of total soluble salts	Sulphates
8.	Electrical Conductivity	Calcium
9.	Calcium Carbonate content	Ammonium
10.	Gypsum Requirement	Nitrate
11.	-----	Magnesium
12.	-----	Residue on Evaporation

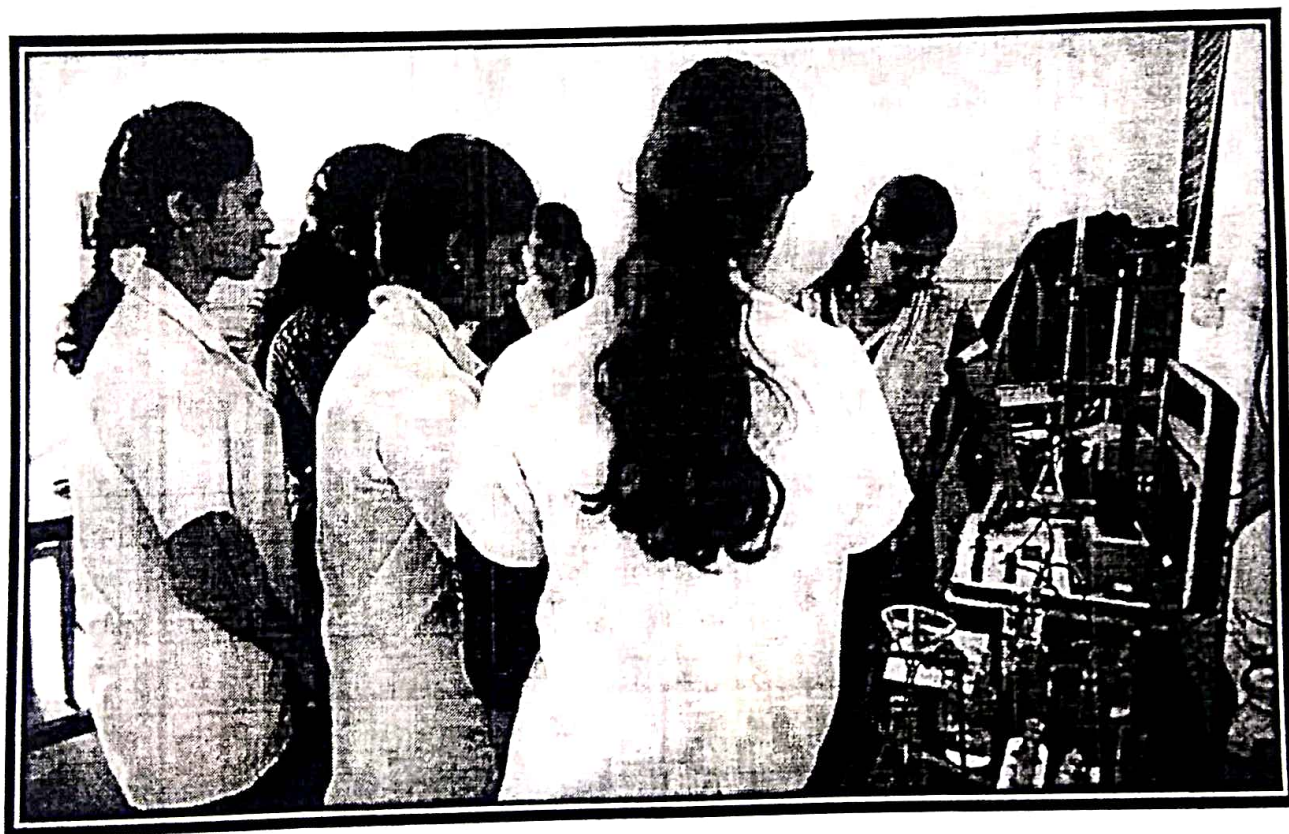
The parameters are checked by volumetric analysis and instruments such as pH meter, conductivity meter, colorimeter etc.

The department created awareness through local newspaper to submit the samples of soil and water. Totally 18 samples have been tested so far.



Maratha Vidya Prasarak Samaj Nashik
G.M.D. Arts, B.W. Commerce and Science College, Sinnar
Department of Chemistry
Photos of Water and Soil Analysis Course

A Report on Certificate Course 'Water and Soil Analysis':





[Handwritten signature]

Mr. H. A. Dabhane

IN Charge

[Handwritten signature]

Dr. P. V. Rasal

PRINCIPAL

G.M.D. Arts, B.N. Commerce and
Science College, Sion, Dist. Nashik.



Maratha Vidya Prasarak Samaj Nashik

G.M.D. Arts, B.W. Commerce and Science College, Sinnar

Department of Chemistry

List of Students for the certificate course of 'Water and Soil Analysis'

Sr.No.	Name of the students	Date: 15-01	Date: 16-01	Date: 17-01	Date: 20-01	Date: 21-01	Date: 22-1	Date: 23-1	Date: 27-01
1	Andhale Yogita Sukhadev	Yogita	Yogita	AB	Yogita	Yogita	Yogita	Yogita	Yogita
2	Arote Priyanka Ramesh	Priyanka	Priyanka	Priyanka	AB	Priyanka	Priyanka	Priyanka	Priyanka
3	Bogir Swati Rajaram	Swati	Swati	Swati	Swati	Swati	Swati	Swati	Swati
4	Chavanake Ashwini Ashok	A.A.Chavanake	A.A.Chavanake	A.A.Chavanake	A.A.Chavanake	A.A.Chavanake	AB	A.A.Chavanake	A.A.Chavanake
5	Thorat Akash Appasaheb	Akash	Akash	Akash	AB	Akash	Akash	Akash	AB
6	Ugale Akash Dattatraya	Ugale	Ugale	Ugale	Ugale	AB	Ugale	AB	Ugale
7	Ugale Keshav Dattatraya	Keshav	Keshav	Keshav	Keshav	Keshav	Keshav	Keshav	AB
8	Sirsat Diksha Bhausaheb	Diksha	Diksha	Diksha	Diksha	Diksha	Diksha	Diksha	Diksha
9	Narode Rasika Sanjay	Rasika	Rasika	Rasika	Rasika	Rasika	Rasika	Rasika	Rasika
10	Kahandal Ashvini Changdeo	Ashvini	Ashvini	Ashvini	Ashvini	AB	Ashvini	AB	AB
11	Erande Poonam Tanaji	Poonam	Poonam	AB	Poonam	Poonam	Poonam	AB	Poonam
12	Ugale Seema Dattatray	Ugale	Ugale	Ugale	Ugale	AB	Ugale	AB	Ugale
13	Warungase Arti Vishnu	Arti	Arti	Arti	Arti	AB	Arti	Arti	Arti
14	Borade Sarthak Dattatray	B.S.L	B.S.L	B.S.L	B.S.L	B.S.L	B.S.L	AB	B.S.L
15	Pagar Arjun Sanjay	Pagar	Pagar	AB	Pagar	Pagar	Pagar	AB	Pagar



Maratha Vidya Prasarak Samaj Nashik

G.M.D. Arts, B.W. Commerce and Science College, Sinnar

Department of Chemistry

List of Students for the certificate course of 'Water and Soil Analysis'

Sr.No.	Name of the students	Date: 28-01	Date: 30-01	Date: 01-02	Date: 03-02	Date: 05-2	Date: 06-2	Date: 11-02	Date: 12-02
1	Andhale Yogita Sukhadev	yogita	yogita	yogita	AB	yogita	yogita	AB	yogita
2	Arote Priyanka Ramesh	Priyanka	Priyanka	Priyanka	AB	Priyanka	Priyanka	AB	Priyanka
3	Bogir Swati Rajaram	Swati	Swati	Swati	AB	Swati	Swati	AB	Swati
4	Chavanake Ashwini Ashok	A. Ashwini	A. Ashwini	A. Ashwini	AB	A. Ashwini	A. Ashwini	AB	A. Ashwini
5	Thorat Akash Appasaheb	Akash	Akash	Akash	AB	Akash	Akash	AB	Akash
6	Ugale Akash Dattatraya	Ugale	Ugale	Ugale	AB	Ugale	Ugale	AB	Ugale
7	Ugale Keshav Dattatraya	Keshav	Keshav	Keshav	AB	Keshav	Keshav	AB	Keshav
8	Sirsat Diksha Bhausaheb	Diksha	Diksha	Diksha	AB	Diksha	Diksha	AB	Diksha
9	Narode Rasika Sanjay	Rasika	Rasika	Rasika	AB	Rasika	Rasika	AB	Rasika
10	Kahandal Ashvini Changdeo	Ashvini	Ashvini	AB	Ashvini	Ashvini	Ashvini	AB	Ashvini
11	Erande Poonam Tanaji	Poonam	Poonam	AB	Poonam	Poonam	Poonam	AB	Poonam
12	Ugale Seema Dattatray	Seema	Seema	Seema	AB	Seema	Seema	AB	Seema
13	Warungase Arti Vishnu	Arti	Arti	AB	Arti	Arti	Arti	AB	Arti
14	Borade Sarthak Dattatray	B.S.D	B.S.D	AB	B.S.D	B.S.D	B.S.D	AB	B.S.D
15	Pagar Arjun Sanjay	Pagar	Pagar	Pagar	AB	Pagar	Pagar	AB	Pagar

Mr. H. A. Dabhane

In Charge

Dr. P. V. Rasal

PRINCIPAL
G.M.D. Arts, B.W. Commerce and
Science College, Sinnar Dist Nashik

c) B-horizon

d) All of these

20) Cation exchange capacity is expressed as:

a) Mole/litre

b) Meq /100 g

c) Meq /lit

d) Per cent



Maratha Vidya Prasarak Samaj's, Nashik
G.M.D.ARTS, B.W.COMMERCE AND SCIENCE COLLEGE, SINNAR
Department Of Chemistry
Certificate course in Water and Soil Analysis
Year- 2020- 2021

Sr. No.	Name of the student	Marks Obtained out of 20
01	Andhale Yogita sukhdev	19
02	Arote Priyanka Ramesh	18
03	Bogir Swati Rajaram	18
04	Chavanke Ashwini Ashok	20
05	Thorat Akash Appasaheb	18
06	Ugale Akash Dattatray	20
07	Ugale Keshav Dattatray	17
08	Shirsat Diksha Bhausahab	17
09	Narode Rasika Sanjay	19
10	Kahandal Ashwini Changdev	19
11	Erande Poonam Tanaji	20
12	Ugale Seema Dattatray	18
13	Warungase Arti Vishnu	19
14	Borhade Sarthak dattatray	16
15	Pagar Arjun Sanjay	18

Ganware
HEAD
DEPARTMENT OF CHEMISTRY
G.M.D. Arts, B.W. Commerce
and Science college, Sinnar

HOD

Principal
Principal
G. M. D. Arts, B. W. Commerce
Science College, Sinnar, Dist. A

Principal



Maratha Vidya Prasarak Samaj's

**G. M. D. ARTS, B. W. COMMERCE &
SCIENCE COLLEGE,**

Nashik-Pune Highway, Sinnar, Dist.Nashik-422 103

SYLLABUS

**Certificate Course in Food Processing and
Preservation**

A.Y- 2020-2021



Certificate Course Food Processing and Preservation (A.Y.2020-21)

❖ Fundamental of Food and Nutrition

Learning Objective:

- ✓ To acquaint the students with fundamental principles and various techniques of food preservation.
- ✓ To enable the students to know the post-harvest management systems and processing technologies for preservation of fruits & vegetables and various value-added products.
- ✓ To develop proficiency skill in producing different types of processed fruits & vegetables products.
- ✓ Operating & maintenance the modern processing equipment & machineries
- ✓ To make different processed fruit & vegetable-based products with quality assurance and safety.

Learning Outcome:

Student will enable to understand different food preservation techniques, process.

- ✓ Student will enable to extend shelf life of different food product by using the various methods of food preservation
- ✓ To develop proficiency skill in producing different nutritious food products.
- ✓ Operating & management of balanced diets for different age groups
- ✓ Make different processed food products with quality assurance.
- ✓ Assessment of nutritional status of the women and children

➤ Unit-I

Food constituents - Definition, occurrence, properties and metabolism of Protein, Carbohydrate and Lipids.

Browning reactions in foods:

- i. Non enzymic browning: Maillard reaction, browning of ascorbic acid, caramelization of sugars.

ii. Enzymic browning: Definition, mechanism, control measures.

➤ Unit-II

Concept of food and nutrition - Elements of nutrition, Food groups and role of nutrients, Energy metabolism - BMR

Recommended dietary allowances, Balanced diet for different age groups (Infancy to old age).

➤ Unit- III

Malnutrition-Causes, types, symptoms and prevention, Assessment of nutritional status of the community, National nutrition policy.

❖ Principles of Food Preservation

Unit-I

Preservation by salt and sugar – Principle, method, equipment and effect on food quality

Unit-II

Thermal processing methods of preservation – Principle and equipment: Canning, blanching, pasteurization, sterilization, evaporation, etc. Need and principle of concentration, methods of concentration – Thermal concentration, freeze concentration, membrane concentration, changes in food quality by concentration

Unit-III

Food preservation by use of low temperature – Principle, equipment and effect on quality (Chilling, cold storage, freezing etc.) Preservation by drying dehydration and concentration – Principle, Methods, equipment and effect on quality. Preservation by radiation, chemicals and preservatives: Definition, methods of irradiation, direct and indirect effect, measurement of radiation dose, dose distribution, effect on microorganisms. Preservation by fermentation- Definition, advantages, disadvantages, types, equipment.

Demonstration of various machineries used in food processing.

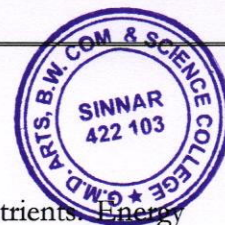
1. Demonstration on effect of blanching on quality of foods.
2. Demonstration on canning and bottling of fruits and vegetables.
3. Preservation of food by high concentration of sugar i.e., preparation of jam
4. Preservation of food by using salt e.g., Pickle
5. Preservation of food by using acidulants i.e., pickling by acid, vinegar or acetic acid

❖ Processing Technology of Fruits and Vegetables

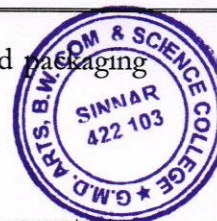
Unit-I

Storage practices: Modified & Controlled atmospheric storage, hypobaric storage, cool store.

Commodity treatments- chemicals, wax coating, pre-packaging.



Post Harvest handling, packaging & transport system for various fruits & vegetables and packaging house operations.




Unit-II


Commercial processing of major fruits and vegetables (jam, jellies, marmalade, purees, concentrates, preserve, candy, toffee/bar etc.) Processing technology for manufacturing of fruit juices, pulp, RTS beverage, nectars, squash, syrups, cordials, Carbonated.

Unit-III

Processing of Tomato: paste, ketchup, sauce, puree, soup, chutney etc.

Drying and dehydration technology of fruits and vegetables: preparation of raisins, anardana, dried fig, dried leafy vegetables, juice powders, flakes, wafers, chips etc. Fermented fruits and vegetables products like sauerkraut, pickles, wines etc. Utilization of By-products and wastes from fruits and vegetables processing industry


Head
Department of Vocational
Food Processing & Preservation
G.M.D. Arts B.W. Commerce
and Science College Sinnar



Principal
G M D Arts B. W. Commerce and
Science College Sinnar, Dist. Nashik



Maratha Vidya Prasarak Samaj's
G. M. D. ARTS, B. W. COMMERCE & SCIENCE COLLEGE, SNNAR, NASHIK
Attendance-Certificate in Food Processing and Preservation Course
2020-21



Sr. No	Name of the students	Class
1.	Avhad Akanksha Vishnu	SY BVOC
2.	Bangar Mayuri Narayan	SY BVOC
3.	Bodake Priyanka Bansi	SY BVOC
4.	Dhore Sayli Raviraj	SY BVOC
5.	Gadekar Rajashri Anil	SY BVOC
6.	Gaikwad Nikita Sharad	SY BVOC
7.	Ghuge KomalGanpat	SY BVOC
8.	Jadhav Ritesh Rajendra	SY BVOC
9.	Jadhav Sahil Kailas	SY BVOC
10.	Jadhav Vrushabh Mhalu	SY BVOC
11.	Kakad Sarika Mhalu	SY BVOC
12.	Kedar Bhagyashri Balkrushna	SY BVOC
13.	Kurhade Mahesh Sudam	SY BVOC
14.	NannawareVaibhavPandurang	SY BVOC
15.	Nathe Suresh Bhausahab	SY BVOC
16.	Pal Aarati Keshraj	SY BVOC
17.	Patole Ashwini Gorakh	SY BVOC
18.	Patole Kuldip Ajit	SY BVOC
19.	Pawar Sonali Balu	SY BVOC
20.	Sonawane Tushar Govind	SY BVOC
21.	Surwade Prajakta Sanjay	SY BVOC
22.	Ugale Kalpesh Uttam	SY BVOC
23.	Ugale Kanchan Janardan	SY BVOC
24.	Ugale Poonam Sanjay	SY BVOC
25.	Vidhate Supriya Rajendra	SY BVOC
26.	Waje Trupti Dattu	SY BVOC


Head
Department of Vocational
Food Processing & Preservation
G.M.D. Arts B.W. Commerce
and Science College Sinnar


Principal
G M D Arts B W. Commerce and
Science College Sinnar, Dist. Nashik



Maratha Vidya Prasarak Samaj's
G. M. D. ARTS, B. W. COMMERCE & SCIENCE COLLEGE, SINNAR, NASHIK
Attendance-Certificate in Food Processing and Preservation Course
2020-21



Sr. No	Name of the students	27/06	28/06	29/06	30/06	01/07	02/07	03/07	04/07	05/07	06/07	07/07	08/07	09/07	10/07	11/07	12/07	13/07	14/07	15/07	16/07	17/07	18/07	19/07	20/07	21/07	22/07	23/07	24/07	25/07	26/07
1.	Avhad Akanksha Vishnu	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
2.	Bangar Mayuri Narayan	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
3.	Bodake Priyanka Banssi	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
4.	Dhore Sayli Raviraj	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
5.	Gadekar Rajashri Anil	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
6.	Gaikwad Nikita Shrad	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
7.	Ghugre KomalGanpat	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
8.	Jadhav Ritesh Rajendra	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
9.	Jadhav Sahil Kailas	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
10.	Jadhav Vrushabh Mhatu	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
11.	Kakad Sarika Mhalu	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
12.	Kedar Bhagyashri Bakrushna	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
13.	Kurhade Mahesh Sudam	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
14.	NannawareVaibhavPandurang	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
15.	Nathe Suresh Bhausaheb	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
16.	Pal Aarati Keshraj	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
17.	Patole Ashwini Gorakh	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
18.	Patole Kuldip Ajit	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
19.	Pawar Sonali Balu	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
20.	Sonawane Tuskar Govind	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
21.	Surwade Prajakta Sanjay	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
22.	Ugale Kalpesh Utam	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
23.	Ugale Kanchan Janardan	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
24.	Ugale Poonam Sanjay	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
25.	Vidhate Supriya Rajendra	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD
26.	Waje Trupti Dattu	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD	APD

Head
Department of Vocational
Food Processing & Preservation
G.M.D. Arts B. W. Commerce
and Science College Sinnar

Principal
G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik



Maratha Vidya Prasarak Samaj's

G. M. D. ARTS, B. W. COMMERCE & SCIENCE COLLEGE, SNNAR, NASHIK
Attendance-Certificate in Food Processing and Preservation Course

2020-21



Sr. No	Name of the students	09/11	10/11	11/11	12/11	13/11	14/11	15/11	16/11	17/11	18/11	19/11	20/11	21/11	22/11	23/11	24/11	25/11	26/11
1.	Avhad Akanksha Vishnu	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
2.	Bangar Mayuri Narayan	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
3.	Bodake Priyanka Banssi	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
4.	Dhore Sayli Raviraj	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
5.	Gadekar Rajashri Anil	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
6.	Gaikwad Nikita Sharad	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
7.	Ghugre Komal Ganpat	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
8.	Jadhav Ritesh Rajendra	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
9.	Jadhav Sahil Kailas	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
10.	Jadhav Vrushabh Mhalu	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
11.	Kakad Sarika Mhalu	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
12.	Kedar Bhagyashri Balkrushna	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
13.	Kuriade Mahesh Sudam	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
14.	Nannaware Vaibhav Pandurang	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
15.	Nathe Suresh Bhausaheb	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
16.	Pal Aarati Keshraj	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
17.	Patole Ashwini Gorakh	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
18.	Patole Kuldeep Ajit	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
19.	Pawar Sonali Balu	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
20.	Sonawane Tushar Govind	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
21.	Surwade Prajakta Sanjay	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
22.	Ugale Kalpesh Utam	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
23.	Ugale Kanchan Janardan	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
24.	Ugale Poonam Sanjay	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
25.	Vidhate Supriya Rajendra	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
26.	Waje Trupti Dattu	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP

Department of Vocational
Food Processing & Preservation
G.M.D. Arts B.W. Commerce
and Science College Sinnar

PRINCIPAL
G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik

Maratha Vidya Prasarak Samaj's
G.M.D. Art's, B.W. Commerce and Science College, Sinnar
Certificate in Food Processing and Preservation Course
2020-21
EXAMINATION

Marks- 100

Date- 19-12-2020

Time- 3 hours

*Note- All questions are compulsory.

Q1.A) Write down the full forms of the following (any 6) 6 marks

1. ATP
2. RDA
3. ETS
4. TCA Cycle
5. FAD
6. NADH
7. ICMR

Q. B) Write note on RDA. 6 marks

Q2. Write down the short notes on. (any 3) 12 marks

1. Cell Transport
2. Malnutrition
3. Non- enzymatic browning
4. Peptide Hormones

Q3. A) Difference between Essential and Non- Essential amino acid. 4 marks

Q. B) How to control Enzymatic Browning. 4 marks

Q. C) What is Emulsification, explain with diagram. 4 marks

Q4. Write down the classification of- 12 marks

1. Carbohydrate
2. Enzymes

Q5. Write down digestion of- 12 marks

1. Lipids
2. Proteins

Q6. What is food additive Write down the E-numbers or E- codes of food additives. 10 marks

Q7. Explain in short India's current food production status in world. 10 marks


Q8. Write down the Principles of Preservation with examples 10 marks

Q9.) What is Rancidity and explain antioxidants with examples 10 marks



Maratha Vidya Prasarak Samaj's
G. M. D. ARTS, B. W. COMMERCE & SCIENCE COLLEGE, SINNAR, NASHIK
Marks-Certificate in Food Processing and Preservation Course
2020-21

Roll No.	Name of the Student	Marks obtained (Out of 100)
1.	Avhad Akanksha Vishnu	78
2.	Bangar Mayuri Narayan	72
3.	Bodake Priyanka Bansi	75
4.	Dhore Sayli Raviraj	81
5.	Gadekar Rajashri Anil	69
6.	Gaikwad Nikita Sharad	75
7.	Ghuge Komal Ganpat	72
8.	Jadhav Ritesh Rajendra	73
9.	Jadhav Sahil Kailas	68
10.	Jadhav Vrushabh Mhalu	76
11.	Kakad Sarika Mhalu	67
12.	Kedar Bhagyashri Balkrushna	72
13.	Kurhade Mahesh Sudam	71
14.	Nannaware Vaibhav Pandurang	70
15.	Nathe Suresh Bhausaheb	68
16.	Pal Aarati Keshraj	69
17.	Patole Ashwini Gorakh	70
18.	Patole Kuldip Ajit	70
19.	Pawar Sonali Balu	72
20.	Sonawane Tushar Govind	72
21.	Surwade Prajakta Sanjay	70
22.	Ugale Kalpesh Uttam	73
23.	Ugale Kanchan Janardan	72
24.	Ugale Poonam Sanjay	73
25.	Vidhate Supriya Rajendra	68
26.	Waje Trupti Dattu	72


Head
Department of Vocational
Food Processing & Preservation
G.M.D. Arts B.W. Commerce
and Science College Sinnar


Principal
G. M. D. Arts B. W. Commerce and
Science College, Sinnar, Dist. Nashik



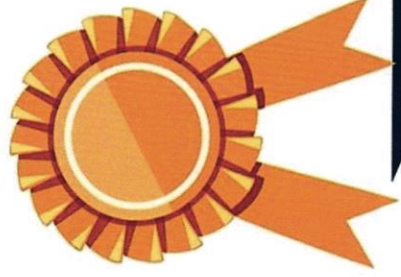
**Maratha Vidya Prasarak Samaj's
G.M.D Arts, B.W Commerce and Science College Sinnar- Nashik
Affiliated to the Savitribai Phule Pune University, Pune**

Certificate of Achievement

This is to certify that Mr/Ms/ Mrs/ _____ of has actively completed the _____

Certificate Course in Food Processing and Preservation
organised By Dept. of B. VOC Food Processing and Preservation during 01/06/2020 to 01/12/2020

His / Her participation is highly appreciated and best wishes for their future endeavours



HOD

PRINCIPAL





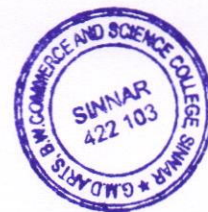
Maratha Vidya Prasarak Samaj's

**G. M. D. ARTS, B. W. COMMERCE &
SCIENCE COLLEGE,**

Nashik-Pune Highway, Sinnar, Dist.Nashik-422 103

SYLLABUS

**Certificate Course in Livestock Production and
Management**



Certificate Course Livestock Production and Management

Livestock Production Management (A.Y.2020-21)

❖ Livestock Production And Management -I

➤ Theory

• Unit-I

Livestock in India- association of livestock to Indian society during vedic, medieval and modern era. Demographic distribution of livestock and role in economy. Introductory animal husbandry. Common animal husbandry terms. Body conformation and identification. Dentition and ageing of animals.

• Unit-II

Transport of livestock by rail, road, air and on foot. Common farm management practices including disinfection, isolation, quarantine and disposal of carcass. Introduction to methods of drug administration. Common vices of animals, their prevention and care. Livestock production systems of different agro-climatic zones. Livestock resources and resources management Livestock produce and products and their availability and their role in rural/urban hearth/economy. Organic livestock production.

• Unit-III

General principles affecting the design and construction of building for housing for various livestock species. Selection of site. Arrangements of the building with special reference to Indian conditions. Utilization of local materials. Building materials used for construction of wall, roof and floor of animal houses, their characteristics, merits and demerits.

Demography of cattle and buffalo population. Breeds and breed descriptors of important breeds. Important traits of cattle and buffaloes. General management and feeding practices of calves, heifers, pregnant, lactating and dry animals in bulls and working animals. Draught ability of cattle and buffaloes. Raising of buffalo mates for meat production. Housing systems, layout and design of different biddings for dairy animals inducing backyard dairy and

mixed farms. Routine dairy farm operations and labor management Methods of milking and precautions. Factors affecting quality and quantity of milk production. Clean max production Dairy farm accounts and records. Concepts of input and output cost of dairy farming (small and large holdings).



➤ **Practical**

Lab. - Livestock Production Management-I

1. A. Identification of various breeds of
 - a. cattle,
 - b. buffalo,
 - c. sheep
 - d. goat
- B. Familiarization with body points of animals. Approaching, handling and restraining
 - a. cattle,
 - b. buffalo,
 - c. sheep
 - d. goat
- C. Clipping, shearing, dipping, spraying and spotting sick animals.
2. A. Detection of vices. Feeding of animals. Methods of identification (marking, tattooing, branding, tagging and electronic chip).
- B. Determination of age. Determination of body weight using different measurements. Preparation of animals for show and judging. Layout plans for dairy and sheep/goat farms. Familiarization with routine farm operations.
3. A. Selection and culling of animals. Milking of dairy animals. Training of breeding mates. Detection of heat Identification and care of pregnant animals. Care of neonatal and young stock. Maintenance, cost accounting, economic analysis and preparation of balance sheet of dairy and sheep/goat farm records. Structure of wool and its differentiation from hair fibre.
4. Determination of staple length, crimps, diameter and strength of wool fibre. Sorting, packaging and grading of wool. Recovery of wax from wool. Scouring and carbonization of wool. Visit to different animal farms/ demonstration centres/ individual rural, urban

and peri-urban animal units/ wool production centres & industries/ wool, meat and live animal markets.



❖ Animal Nutrition and Feed Technology

➤ Theory

• Unit-I

Importance of nutrients in animal production and health. Composition of animal body and plants. Nutritional terms and their definitions. Importance of minerals (major and trace elements) and vitamins in health and production, their requirements and supplementation in feed.

• Unit-II

Common feeds and fodders, their classification, availability and importance for livestock and poultry production. Measures of food energy and their applications - gross energy, digestible energy, metabolism energy, net energy, total digestible nutrients, starch equivalent, food units, physiological fuel value. Direct and indirect calorimetry, carbon and nitrogen balance studies.

❖ Animal Nutrition and Feed Technology

➤ Practical

1. Familiarization of various feed stuff, fodders and their selection.
2. Preparation and processing of samples for chemical analysis - herbage, faeces, urine and silages.
3. Weende's System of analysis - Estimation of dry matter, total ash, acid insoluble ash, crude protein, ether extract crude fibre, nitrogen free extract, Calcium and phosphorus in feed samples.
4. Demonstration of detergent methods of forage analysis.
5. Qualitative detection of undesirable constituents and common adulterants of feed.
6. Demonstration of laboratory ensiling of green fodders. Silage pit preparation.
7. Demonstration of conducting digestion trial in ruminants. Calculation of nutritive value of different feed stuffs in terms of digestible crude protein (DCP), total digestible nutrient (TDN), Nitrogen retention (NR) and starch equivalent (SE). Calculation of requirements of nutrients in terms of DCP, TDN and metabolisable energy (ME) for maintenance, growth,

and other types of production like meat, milk, wool, reproduction and work.

8. Formulation of rations for different categories of livestock under different conditions.

9. Demonstration of the methods for improving the nutritive quality of straws and other crop residues.

10. Formulation of rations for feeding of livestock during scarcity periods. Visit to feed factories.

❖ Fodder Production and Grassland Management

➤ Theory

• Unit-I

Importance of grasslands and fodders in-livestock production. Agronomical practices for production of leguminous and non-leguminous fodders in different seasons.

• Unit-II

Soil and water conservation and irrigation drainage for fodder production. Farm, power and agro-energy. Farm machinery and equipment Harvesting and post-harvest techniques for fodder preservation.

❖ Unit-III

Storage of feeds and fodders. Scarcity fodders. Feed and fodder management for individual animals. Fodder production for small units through inter cropping or back yard cultivation.

❖ Fodder Production and Grassland Management

➤ Practical


1. Visit to the fodder farm. Familiarization with the various types of fodder crops utilized in the state and the samples of fodder in India.


2. Fodder cropping routines - familiarization. Collection, preservation and storage of feed and fodder; possible damages/loss and methods to prevent them.

3. Cost calculations of fodder production. Familiarizations with the back yard fodder cropping and intercropping of fodder.

4. Livestock waste utilization and recycling.

5. Calculation on the economic aspects of fodder cropping and procurement of feed.


Head
Department of Vocational
Livestock Production & Management
G.M.D. Arts B.W. Commerce
and Science College Sinnar


PRINCIPAL
G.M.D.Arts,B.W.Commerce and
Science College,Sinnar,Dist.Nashik,



Maratha Vidya Prasarak Samaj's
G.M.D. Arts, B.W. Commerce & Science College, Sinnar.
Dept. of B. Voc
Certificate Course in (Livestock production and Management)
(2020-2021)
Student List


Roll No	Student Name	Class
1	Ananthre Darshan Pratap	S.Y B.VOC
2	Ashtekar Samadhan Balasaheb	S.Y B.VOC
3	Avhad Mahesh Ramesh	S.Y B.VOC
4	Belote Rahul Vishnu	S.Y B.VOC
5	Gurkule Amol Sadashiv	S.Y B.VOC
6	Jagtap Rushikesh Kailas	S.Y B.VOC
7	Kale Prathamesh Milind	S.Y B.VOC
8	Kardak Shweta Subhas	S.Y B.VOC
9	Khillari Subhash Ganpat	S.Y B.VOC
10	Loharkar Prasad Sunil	S.Y B.VOC
11	Pagare Sagar Vishnu	S.Y B.VOC
12	Pangarkar Pravin Dnyaneshwar	S.Y B.VOC
13	Pawale Yash Somnath	S.Y B.VOC
14	Rudrakar Vaibhav Waman	S.Y B.VOC
15	Said Mahesh Popat	S.Y B.VOC
16	Sanap Sangam Bharat	S.Y B.VOC
17	Shirsat shekar Bhaudas	S.Y B.VOC
18	Shirsat Vivek Bhausahab	S.Y B.VOC
19	Vaishnav Dhiraj Jaykumar	S.Y B.VOC
20	Vaidhya Tushar Gajananrao	S.Y B.VOC

Head

Department of Vocational
Livestock Production & Management
G.M.D. Arts B.W. Commerce
and Science College Sinnar

PRINCIPAL

G.M.D.Arts,B.W.Commerce and
Science College,Sinnar,Dist.Nashik.

	M.V.P.SAMAJ'S G. M. D.ARTS, B.W.COM& SCI, COLLEGE SINNAR. External Examination December 2020 Certificate Course In (Live Stock Production and Management)	
	Name Of the Students: _____ Date: _____	
Seat No: _____	Supervisor's Sign: _____	Marks: 50

Instructions:

- Solve any five questions from following
- Each questions carry equal marks
- Each question carry 5 marks

Q.1) What are the types of Poultry Houses?

Q.2) Write down the water management system of Poultry farm.

Q.3) Write short note on seasonal management of poultry farm.

Q.4) Explain the digestive system of chicken.

Q.5) What are the advantages and disadvantages of poultry farm.

Q.6) Write short note on disease spread through water contamination & its prevention.

Maratha Vidya Prasarak Samaj's
G.M.D. Arts, B.W. Commerce & Science College, Sinnar.
Dept. of B. Voc
Certificate Course in (Livestock production and Management)
(2020-2021)



Student Name	Internal Marks (50)	External Marks (50)	Total (100)
Ananthre Darshan Pratap	50	45	95
Ashtekar Samadhan Balasaheb	40	40	80
Avhad Mahesh Ramesh	50	40	90
Belote Rahul Vishnu	40	45	85
Gurkule Amol Sadashiv	30	44	74
Jagtap Rushikesh Kailas	40	48	88
Kale Prathamesh Milind	45	45	90
Kardak Shweta Subhas	40	45	85
Khillari Subhash Ganpat	43	43	86
Loharkar Prasad Sunil	40	42	82
Pagare Sagar Vishnu	44	45	89
Pangarkar Pravin Dnyaneshwar	40	45	85
Pawale Yash Somnath	44	43	87
Rudrakar Vaibhav Waman	50	44	94
Said Mahesh Popat	45	42	87
Sanap Sangam Bharat	45	41	86
Shirsat shekar Bhaudas	44	42	86
Shirsat Vivek Bhausahab	40	40	80
Vaishnav Dhiraj Jaykumar	45	41	86
Vaidhya Tushar Gajananrao	45	40	85

Head
Department of Vocational
Livestock Production & Management
G.M.D. Arts B.W. Commerce
and Science College Sinnar

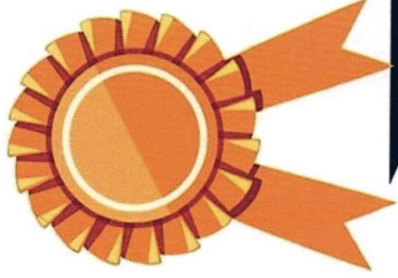
PRINCIPAL
G.M.D.Arts,B.W.Commerce and
Science College,Sinnar,Dist.Nashik.



**Maratha Vidya Prasarak Samaj's
G.M.D Arts, B.W Commerce and Science College Sinnar- Nashik
Affiliated to the Savitribai Phule Pune University, Pune**

Certificate of Achievement

This is to certify that Mr/Ms/ Mrs/ _____ of has actively completed the
Certificate Course in Livestock Production and Management
organised By Dept. of B. VOC Livestock Production and Management during
01/06/2020 to 01/12/2020
His / Her participation is highly appreciated and best wishes for their future
endeavours



HOD

PRINCIPAL





Maratha Vidhya Prasarak Samaj's
G.M.D. Arts, B.W. Commerce and Science College Sinnar

List of the Students Enrolled in Online MOOC Programs like
SWAYAM & NPTEL

2020-21

Sr. No.	Name of the Students	Department	Percentage (%)
1	Chine Kunal	Commerce	71
2	Shete Prasad Arjun	Commerce	53
3	Londhe Shruti Anil	Physics	41
4	Shinde Madhuri Namdev	Chemistry	64
5	Shelar Akshay Lalji	Chemistry	53
6	Gatkal Poonam Madhav	Chemistry	55
7	Lokhande Gital Vishnu	Chemistry	51
8	Gujarathi Khushi Vaibhav	Chemistry	65
9	Navle Abhijeet Dattatray	Chemistry	60
10	Pawar Sneha Shankar	Chemistry	51

11	Deshmukh Pooja Dattatray	Chemistry	51
12	Gadakh Hrutuja Madhukar	Chemistry	52
13	Chavanke Aakansha Pandurang	Mathematics	58
14	Dongare Prachi Manesh	Mathematics	56
15	Kotwal Santoshi Namdeo	Mathematics	46
16	Sonawane Arti Bajirao	Mathematics	48
17	Waychale Roshani Rajendra	Mathematics	48
18	Shinde Yashraj Bhausahab	Mathematics	43
19	Salvi Vishakha Rajesh	Micro-Biology	70
20	Shitole Sushma Vinod	Micro-Biology	59
21	Biswas Nikita Ranjit	Micro-Biology	51



Principal
Principal
 G. M. D. Arts, B. W. Commerce and
 Science College, Sinnar, Dist. Nashik

SWAYAM ONLINE COURSE CERTIFICATION


*This certificate is awarded to
Nikita Ranjit Biswas
for successfully completing the four credit course
Enzymology
with a consolidated score of 51%
from the evaluation based on continuous online assessments and the Proctored
examination held in month of March 2021.*




Roll No. : 4010213182

This course was offered by Prof. Bashir A. Ganie of University of Kashmir

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	17	70	34	100	51


J. B. Nadda
National Coordinator
Consortium for Educational Communication (CEC),
New Delhi




Dr. Salima Jan
Director EMRC Srinagar
University of Kashmir

SWAYAM ONLINE COURSE CERTIFICATION


*This certificate is awarded to
Shitole Sushma Vinod
for successfully completing the four credit course
Enzymology
with a consolidated score of 59%
from the evaluation based on continuous online assessments and the Proctored
examination held in month of March 2021.*




Roll No. : 4010208458

This course was offered by Prof. Bashir A. Ganie of University of Kashmir

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	23	70	36	100	59


J. B. Nadda
National Coordinator
Consortium for Educational Communication (CEC),
New Delhi




Dr. Salima Jan
Director EMRC Srinagar
University of Kashmir



SWAYAM ONLINE COURSE CERTIFICATION


*This certificate is awarded to
Salvi Vishakha Rajesh
for successfully completing the four credit course
Enzymology
with a consolidated score of 70%
from the evaluation based on continuous online assessments and the Proctored
examination held in month of March 2021.*




Roll No. : 4010206298

This course was offered by Prof. Bashir A. Ganie of University of Kashmir

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	30	70	40	100	70


J. B. Nadda
National Coordinator
Consortium for Educational Communication (CEC),
New Delhi




Dr. Salima Jan
Director EMRC Srinagar
University of Kashmir

Issued On : 18/06/2021

To validate and check scores: <https://swayam.gov.in>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MA33S52050055

To

YASHRAJ
SARADWADI ROAD, SINNAR . OM PLAZA
FLAT. NO 24
OM PLAZA , FLAT NO 24 . BUILDING ,
SARADWADI ROAD , SANJEEVANI NAGAR,
SINNAR , NASHIK
NASHIK
MAHARASHTRA - 422103
PH. NO :8698740746



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

YASHRAJ

for successfully completing the course

Numerical Methods

with a consolidated score of **43** %

Online Assignments	12.83/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **36**

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Sep-Nov 2020
(8 week course)

Prof. Inderdeep Singh
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee





NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
WAYCHALE ROSHANI RAJENDRA
for successfully completing the course

Numerical Methods

with a consolidated score of **48** %

Online Assignments	10.96/25	Proctored Exam	36.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **36**

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Sep-Nov 2020
(8 week course)

Prof. Inderdeep Singh
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL20MA33S52050027

To validate and check scores: <https://nptel.ac.in/noc>



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SONAWANE ARTI BAJIRAO
for successfully completing the course

Calculus of Several Real Variables

with a consolidated score of **48** %

Online Assignments	14.75/25	Proctored Exam	33/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 46

Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Sep-Nov 2020
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL20MA27S72050153

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MA27S72050104

To
KOTWAL SANTOSHI NAMDEO
NAIGAON ROAD
MAPARWADI
SINNAR
MAHARASHTRA - 422103
PH. NO :7083041129

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
KOTWAL SANTOSHI NAMDEO
for successfully completing the course

Calculus of Several Real Variables

with a consolidated score of **46** %

Online Assignments	16.08/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **46**

Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Sep-Nov 2020
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MA27S72050125

To

PRACHI MANESH DONGARE
TEJKAMAL BUNGALOW, SIDDHIVINAYAK NAGAR
, NEAR BODKE COURIER
SHIVAJI NAGAR, TAL-SINNAR, DIST - NASHIK
NASHIK
MAHARASHTRA - 422103
PH. NO :8856895983



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
PRACHI MANESH DONGARE

for successfully completing the course

Calculus of Several Real Variables

with a consolidated score of **56** %

Online Assignments	18.08/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **46**

Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Sep-Nov 2020
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MA27572050008

To
CHAVANKE AAKANSHA PANDURANG
BHIRAVNATH NAGER NEAR WATER TANK SINNAR
MAHARASHTRA - 422103
PH. NO :8421027960



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
CHAVANKE AAKANSHA PANDURANG
for successfully completing the course

Calculus of Several Real Variables

with a consolidated score of **58** %

Online Assignments	18.92/25	Proctored Exam	39/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 46

Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Sep-Nov 2020
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CY30S72050059

To
DESHMUKH POOJA DATTATRAY
AT SUREGAON POST MARHAL BK TAL SINNAR
DIST NASHIK
MAHARASHTRA - 422606
PH. NO :9881633885



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

of credits recommended by NPTEL:2

Additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
DESHMUKH POOJA DATTATRAY
for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **51** %

Online Assignments	17.92/25	Proctored Exam	33/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 177

C. Harinath

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL20CY30S72050059

To validate and check scores: <https://nptel.ac.in/noc>

Certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CY30S72050084
 To
 PAWAR SNEHA SHANKAR
 SARSWATI NAGAR SARDWADI ROAD
 NEAR GANPATI MANDIR
 SINNAR
 MAHARASHTRA - 422103
 PH. NO :9975968624



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

0. of credits recommended by NPTEL:2
 additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
PAWAR SNEHA SHANKAR
 for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **51** %

Online Assignments	11.67/25	Proctored Exam	39.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 177

C. Harinath
 Prof. Harinath Chakrapani
 Dean, International Relations and Outreach
 IISER Pune

Andrew Thangaraj
 Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras

Sep-Nov 2020
 (8 week course)



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CY30S72050027

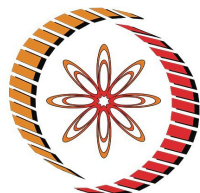
To
HRUTUJA MADHUKAR GADAKH
AT POST DEOPUR TALUKA SINNAR DISTRICT
NASHIK
MAHARASHTRA - 422103
PH. NO :8080890271



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
HRUTUJA MADHUKAR GADAKH
for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **52** %

Online Assignments	18.33/25	Proctored Exam	33.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 177

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune





Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
ABHIJEET DATTATRAY NAVLE
for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **60** %

Online Assignments	21.67/25	Proctored Exam	38.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **177**

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL20CY30S72050053

To validate and check scores: <https://nptel.ac.in/noc>



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
KHUSHI VAIBHAV GUJARATHI

for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **65** %

Online Assignments	20.42/25	Proctored Exam	44.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 177

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL20CY30S72050037

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CY30S72050023

To
GITAL VISHNU LOKHANDE
SONI BHAVAN
SHIVAJI NAGAR
SINNAR
MAHARASHTRA - 422103
PH. NO :9403239953



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
GITAL VISHNU LOKHANDE
for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **51** %

Online Assignments	19.17/25	Proctored Exam	32.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 177

C. Harinath

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune





NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
GATKAL POONAM MADHAV
for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **55** %

Online Assignments	20.83/25	Proctored Exam	33.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 177

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL20CY30S72050019

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CY30S72050009

To
SHELAR AKSHAY LALJI
AT:-GHANGALWADI, POST:-NIMGAON
TAL:-SINNAR, DIST:-NASHIK.
SINNAR
MAHARASHTRA - 422103
PH. NO :7057683189



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SHELAR AKSHAY LALJI
for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **53** %

Online Assignments	21.67/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 177

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CY30S72050043

To
SHINDE MADHURI NAMDEV
AT.POST SONARI.TAL.SINNAR.DIST.NASHIK
-
SINNAR
MAHARASHTRA - 422103
PH. NO :9822806155



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SHINDE MADHURI NAMDEV
for successfully completing the course

Introductory Organic Chemistry - I

with a consolidated score of **64** %

Online Assignments	22.08/25	Proctored Exam	42/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 177

Prof. Harinath Chakrapani
Dean, International Relations and Outreach
IISER Pune

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune





NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SHRUTI ANIL LONDHE
for successfully completing the course

Solar Photovoltaics Fundamentals, Technology and Applications

with a consolidated score of **41** %

Online Assignments	11.25/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **161**

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Sep-Nov 2020
(8 week course)

Prof. Inderdeep Singh
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL20PH21S32050132

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MG61S42050089

To
PRASAD ARJUN SHETE
KANADI MALA, GULWACH ROAD, SINNAR
TAL SINNAR, DIST NASHIK
SINNAR
MAHARASHTRA - 422103
PH. NO :9922228605



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
PRASAD ARJUN SHETE
for successfully completing the course

Introduction to Marketing Essentials

with a consolidated score of **53** %

Online Assignments	22.50/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **378**

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Sep-Nov 2020
(8 week course)

Prof. Inderdeep Singh
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20MG61S32050128

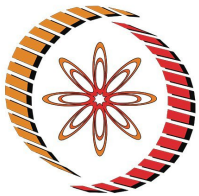
To
KUNAL CHINE
KHARJE MALA SINNAR
MAHARASHTRA - 422103
PH. NO :8805222034



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
KUNAL CHINE
for successfully completing the course

Introduction to Marketing Essentials

with a consolidated score of **71** %

Online Assignments	22.92/25	Proctored Exam	48/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **378**

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Sep-Nov 2020
(8 week course)

Prof. Inderdeep Singh
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



MVP Samaj's

G.M.D. Arts, B.W. Commerce & Science College, Sinnar



**Department of Physical Education
(AY 2020-21)**

Date: 01/10/2021

Notice

Certificate Course in Basics of Yoga

All the students are hereby informed that the department of Physical Education is going to conduct an online certificate course in 'Basics of Yoga' from 10/10/2021 to 25/10/2021. All the interested students should contact Prof. S. D. Ingale (Physical Director) for registration on or before 05/10/2021. After the completion of the course, the certificate will be issued.

Prof. S.D. Ingale

Head

Co-ordinator
Dept. of Physical Education & Sports,
G.M.D. Arts, B.W. Commerce
& Science College, Sinnar



Dr. P.V. Rasal

Principal

G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik



MVP Samaj's

G.M.D. Arts, B.W. Commerce & Science College, Sinnar

**Department of Physical Education
(AY 2020-21)**

Certificate Course in Basics of Yoga

Objectives of the Course:

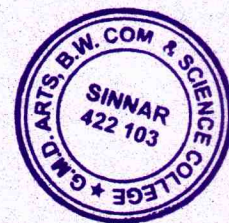
The objectives of a "Certificate Course in Basics of Yoga" syllabus generally aim to provide participants with a foundational understanding of yoga philosophy, practices, and principles. The course is designed to equip participants with the knowledge and skills needed to establish a solid foundation in their personal yoga practice and potentially serve as an introductory step toward further studies or teaching yoga. Here are the common objectives of such a course:

- Understand the historical and philosophical context of yoga.
- Learn about different paths of yoga and their significance.
- Familiarize participants with basic yoga postures (asanas) and their benefits.
- Teach proper alignment, adjustment techniques, and safety considerations in practicing asanas.
- Introduce participants to various breathing techniques and their effects on mind and body.
- Teach the fundamentals of pranayama (breath control) for enhanced well-being.
- Explore different meditation techniques and their roles in calming the mind and improving focus.
- Provide an understanding of mindfulness practices and their integration with yoga.
- Develop a basic understanding of the body's anatomical structures and how they relate to yoga practice.
- Recognize the importance of flexibility, strength, and balance for overall health.

Syllabus:

Module 1: Introduction to Yoga

- Definition and origins of yoga



- Different paths of yoga (Hatha, Raja, Bhakti, Jnana, Karma, etc.)
- Benefits of practicing yoga
- Overview of key yoga texts (such as the Yoga Sutras of Patanjali)

Module 2: Yoga Philosophy and Lifestyle

- The philosophy of yoga: Yamas and Niyamas (ethical guidelines)
- Incorporating yogic principles into daily life
- Mind-body connection and holistic well-being

Module 3: Asanas (Yoga Poses)

- Introduction to basic yoga postures
- Alignment and safety in asana practice
- Breathing techniques (Pranayama) and its integration with asanas

Module 4: Pranayama and Meditation

- Various pranayama techniques (breathing exercises)
- Introduction to meditation and its benefits
- Mindfulness and concentration practices

Module 5: Yoga Anatomy and Physiology

- Understanding the physical body in relation to yoga
- Importance of flexibility, strength, and balance
- Basic overview of body systems relevant to yoga practice

Module 6: Relaxation and Stress Management

- Yoga Nidra: The yogic sleep for deep relaxation
- Techniques for managing stress and anxiety through yoga

Module 7: Introduction to Ayurveda

- Basic principles of Ayurveda
- Doshas (Vata, Pitta, Kapha) and their relevance to yoga practice

Module 8: Yoga Ethics and Teaching Guidelines

- The role of a yoga teacher and ethical considerations
- Effective communication and creating a safe and inclusive class environment

Module 9: Practicum

- Teaching practice: Guiding simple yoga sessions
- Giving and receiving constructive feedback



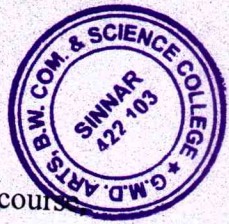
Module 10: Final Assessment and Certification

- Written examination on course content
- Practical assessment of teaching skills

Outcome of the Course:

The outcomes of a "Certificate Course in Basics of Yoga" are designed to reflect the knowledge, skills, and personal growth that participants can expect to achieve upon completing the course. These outcomes are centered around equipping participants with a solid foundation in yoga philosophy, practices, and principles, which can serve as a stepping stone for further studies or even teaching yoga. Here are the typical outcomes of such a course:

1. **Foundational Understanding:** Participants will gain a clear understanding of the history, philosophy, and various paths of yoga, providing them with a holistic perspective on the practice.
2. **Yoga Practices:** Participants will become familiar with basic yoga postures (asanas), pranayama techniques, meditation practices, and relaxation methods to enhance their physical, mental, and emotional well-being.
3. **Mind-Body Connection:** Participants will develop an awareness of the mind-body connection and how yoga contributes to overall holistic health.
4. **Breath Awareness:** Participants will learn to incorporate proper breathing techniques (pranayama) into their practice, which can have a positive impact on their stress levels, focus, and energy.
5. **Stress Management:** Participants will acquire tools and techniques to manage stress and anxiety through yoga practices, promoting emotional resilience and a sense of calm.
6. **Mindfulness Skills:** Participants will develop mindfulness skills, enhancing their ability to be present and fully engaged in their daily lives.
7. **Physical Awareness:** Participants will understand basic anatomy relevant to yoga and be able to practice asanas with proper alignment and posture, reducing the risk of injuries.
8. **Introduction to Teaching:** For those interested in becoming yoga teachers, participants will gain an initial introduction to teaching skills, including communication, creating a safe environment, and providing guidance during yoga sessions.
9. **Ethical Values:** Participants will internalize ethical principles and values that guide their personal practice and interactions with others in a yoga community.



10. Personal Growth: Through self-reflection and introspection encouraged by the course participants may experience personal growth, increased self-awareness, and a deeper connection to themselves.
11. Holistic Well-being: By embracing the holistic approach of yoga, participants can expect improvements in physical fitness, mental clarity, emotional balance, and overall well-being.
12. Certification: Participants who successfully complete the course will receive a certificate, acknowledging their commitment to learning and understanding the basics of yoga.

It's important to note that while the course provides a strong foundation, it's just the beginning of the journey. Many participants go on to pursue more advanced yoga studies, further personal practice, or even pursue teaching certifications if they wish to share their knowledge and experiences with others.

Prof. S.D. Ingale
Co-ordinator

Head
Dept. of Physical Education & Sports.
G.M.D. Arts, B.W. Commerce
& Science College, Sinnar

Dr. C.E. Gurule
Co-ordinator
IQAC

G. M. D. Arts, B.W. Commerce & Science
College, Sinnar, Dist. Nashik 422103

Dr. P.V. Rasal

Principal
G.M.D.Arts, B.W.Commerce and
Science College, Sinnar,Dist.Nashik



MVP Samaj's

G.M.D. Arts, B.W. Commerce & Science College, Sinnar

**Department of Physical Education
(AY 2020-21)**

Certificate Course in Basics of Yoga

Attendance and Result Report

The department of Physical Education has conducted an online certificate course in 'Certificate Course in Basics of Yoga' from 10/10/2021 to 25/10/2021. For the course, 75 students have enrolled from the college. The course is conducted by on-line mode. The students joined at Google Meet and attended the course. The result is as follows:

Enrolled Students	Appeared Students	Absent Students	Passed Students	Failed Student	Percentage of Passing
75	69	06	69	00	100

Prof. S.D. Ingale

Co-ordinator

Head
Dept. of Physical Education & Sports,
G.M.D. Arts, B.W. Commerce
& Science College, Sinnar



Dr. P.V. Rasal

Principal

G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik

**Evidences of Videos Lectures on You Tube & Google Classroom
Certificate Course in Basics of Yoga**



Figure 1: Google Meet



Figure 2: Presentation on Google Meet


CO-ORDINATOR
IQAC
G.M.D. Arts, B.W. Commerce
And Science College, Sinnar




Principal
G. M. D. Arts, B. W. Commerce and
Science College, Sinnar, Dist.Nashik

Evidences of Videos Lectures on You Tube & Google Classroom

Certificate Course in Certificate Course in Basics of Yoga

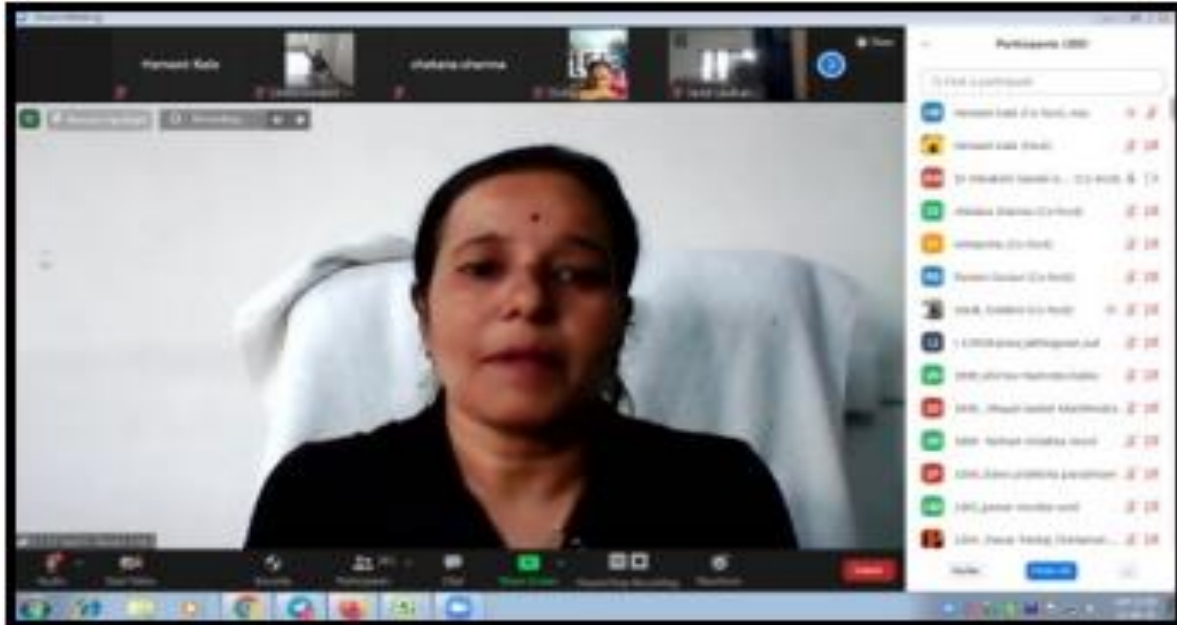


Figure 3: Google Meet conducted by Resource Person



Figure 4: Demonstration of Yoga

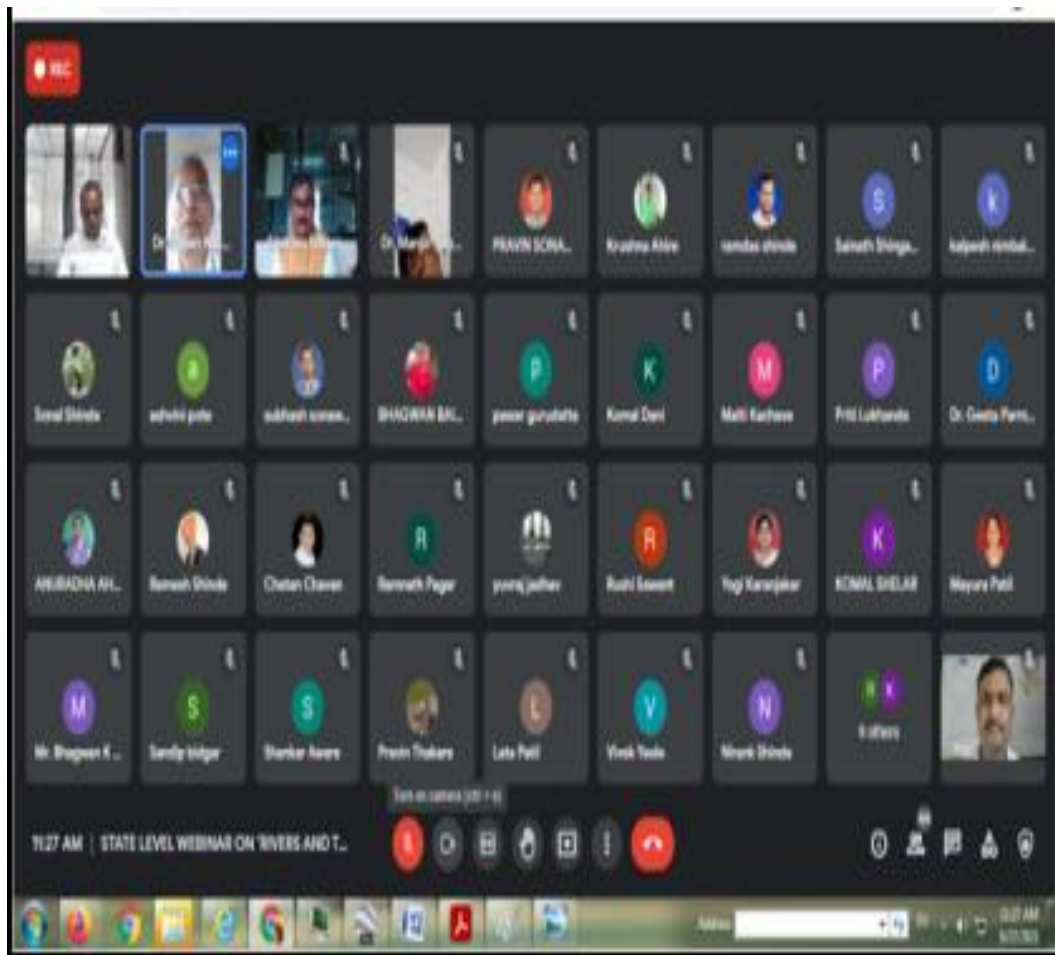


Figure 5: Google Meet

Basics Course of Yoga you-tube link.

- <https://youtu.be/6JIxoeCEQQ>
- <https://youtu.be/aN-Q2JV46q4>
- https://youtu.be/RBmjlc_VwNc
- <https://youtu.be/dAqQqmaI9vY>
- <https://youtu.be/4ZBUDd4bsyA>
- <https://youtu.be/dAqQqmaI9vY>
- https://youtu.be/sSiA25XIG_A

Quail
CO-ORDINATOR
 IQAC
 G.M.D. Arts, B.W. Commerce
 And Science College, Sinnar



Neel
Principal
 G. M. D. Arts, B. W. Commerce and
 Science College, Sinnar, Dist.Nashik



**Maratha Vidya Prasarak Samaj's
G.M.D Arts, B.W Commerce and Science College Sinnar- Nashik
Affiliated to the Savitribai Phule Pune University, Pune**



Certificate of Achievement

This is to certify that Mr./Ms./ Mrs. _____
_____ has actively

completed the

Certificate Course in Basics of Yoga

organized By Department of Physical Education in collaboration with
IQAC during
10/10/2021 to 25/10/2021

His / Her participation is highly appreciated and best wishes for their
future endeavors

**Dr. S.D. Ingale
HOD**

**Dr. C.E. Gurule
IQAC Coordinator**

**Dr. P.V.Rasal
Principal**





MVP Samaj's

G.M.D. Arts, B.W. Commerce & Science College, Sinnar

Department of English

(AY 2020-21)

Date: 20/01/2021

Certificate Course in

Enriching Communicative Competence in English

Notice

All the students of our college are hereby informed that the department of English is going to conduct an online certificate course on 'Enriching Communicative Competence in English ' from 1nd Feb. 2021 to 15th Feb. 2021. All the interested students should contact Dr. S. R. Shinde for registration on or before 31st Jan. 2021. After the completion of the course, the certificate will be issued.

Prof. Dr. C.E. Gurule

HEAD
Coordinator

DEPARTMENT OF ENGLISH
G.M.D. Arts, B.W. Commerce
And Science College, Sinnar

Dr. P.V. Rasal

PRINCIPAL

**G.M.D.Arts, B.W.Commerce and
Science College, Sinnar,Dist.Nashik**



MVP Samaj's
G.M.D. Arts, B.W. Commerce & Science College, Sinnar

Department of English

Certificate Course in
ENRICHING COMMUNICATIVE COMPETENCE IN ENGLISH

Syllabus

Introduction

Language is a means to acquire education. It is a tool to express ideas, a royal vehicle of thoughts, means and method of communication, used by a community or nation. Certificate Course in **Communicative English** is designed to enhance one's language skills in English, especially with a special focus on improving speaking skills. Since English is now the international medium of expression, it is necessary to master the language to stay connected with the world.

By joining Communicative English Certificate course, students will be able to learn the elements of the language and acquire the confidence to speak fluently and write correctly in formal and informal situations. They will face no problem while communicating in schools, colleges, universities or in any public place. Because, they will learn the pronunciation of words, their meanings and to make sentences that help them to overcome speech problems in active communication. They will also learn it through interactive games, situational conversations, project works, lab sessions, etc., designed especially for those students who want to improve their communication skills for better employment opportunities.

Objectives

1. To enable students to master proper English pronunciation, spelling, meaning and usage.
2. To make students how to construct acceptable and correct sentences using familiar and apt vocabulary in the context of daily activities.
3. To provide students with English language skill practice to improve their



English proficiency.

4. To practice genuine English dialogues and speeches in the classroom to improve English language fluency by simulating real-life situations.
5. Using a variety of classroom and outdoor activities, conduct of workshops & seminars, assisting students to overcome their anxiety of speaking in English, in front of their classmates and teachers, thereby increasing their self-confidence.
6. To assist students to become the self-directed and autonomous English language learners.

Outcomes of the course:

1. To develop vocabulary and enhance grammar accuracy
2. To produce words with right pronunciation
3. To improve LSRW skills
4. To develop rapport, speak more confidently and listen intently
5. To analyze and take advantage of body language
6. To enhance students' work professionalism

Syllabus

Sl. No	Module	Topics
1	Grammar	Introduction to Grammar, Types of Sentences, Verbs, Tenses and Types of Tenses, the Sequence of Tenses (rules in use of tenses), Question Tags, some exceptions in question tags



3	Communication (in Real Life Situations)	Invitation, Meeting and Parting, Sentences of Gratitude, Sentences of Congratulations and Good Wishes, Sentences of Refusal, Sentences of Believing, Sentences of Request, Sentences relating to Meals, Sentences of Time, Sentences of Permission, Sentences of Encouragement, Sentences of Consolation, Sentences of Annoyance, Sentences of Affection, Sentences of Negation, Sentences of Consent, Sentences of Sadness, Sentences of relating to Quarrel, Sentences of Anger, Sentences of Apology (Sorry)
4	Conversations -I	Conversation, Introducing Self and Others, Talking to Student, Getting Ready to go, Asking the Way, Inquiry about a Doctor/Patient, Talking to Doctor, At a General Store/Mall, Talking to a Railway Clerk, Talking to a Receptionist, Enquiry about Admission process/Course Details at Institute/College
6	Conversations-II	At an Interview, In a Party, Talking on the Phone, In a college, Booking a Room in a Hotel, Talking to Customer Care, With Class Teacher/ Principal, With a Foreigner, With a Tourist Guide, Marriage Negotiation, Online Interview, Online Order - Delivery Conversation, at a Kitty Party, Talking on Natural Disasters, Talking on Pollution, Talking on politics/Social Issues - Debates

[Handwritten Signature]

HEAD
DEPARTMENT OF ENGLISH
G.M.D. Arts, B.W. Commerce
And Science College, Sinnar



[Handwritten Signature]

PRINCIPAL
G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik



MVP Samaj's

G.M.D. Arts, B.W. Commerce & Science College, Sinnar

Department of English

(AY 2020-21)

Certificate Course in
Enriching Communicative Competence in English
Attendance and Result Report

The department of English has conducted an Online Certificate Course on 'Enriching Communicative Competence in English' from 1st Feb. 2021 to 15th Feb 2021. For the course, 1305 students have enrolled from all the faculties of the college. The lectures in on-line mode were conducted in on-line mode. Approximately 750 students joined at Google Meet and the remaining students joined the You Tube links. The online examination of 50 marks was conducted by the department of English. The result was as follows:

Enrolled Students	Appeared Students	Absent Students	Passed Students	Failed Students	Percentage of Passing
1274	1206	68	1183	23	98.09

Prof. Dr. C.E. Gurule

Co-ordinator
HEAD

DEPARTMENT OF ENGLISH
G.M.D. Arts, B.W. Commerce
And Science College, Sinnar



Dr. P.V. Rasal

PRINCIPAL

G.M.D.Arts, B.W.Commerce and
Science College, Sinnar, Dist.Nashik

Maratha VidyaPrasarakSamaj, Nashik
G.M.D. Arts, B.W. Commerce and Science College, Sinnar
E-Content and Online Teaching Record
Academic Year- 2020-21

Evidences of Videos Lectures on You Tube & Google Classroom

Certificate Course in
Enriching communicative competence in English

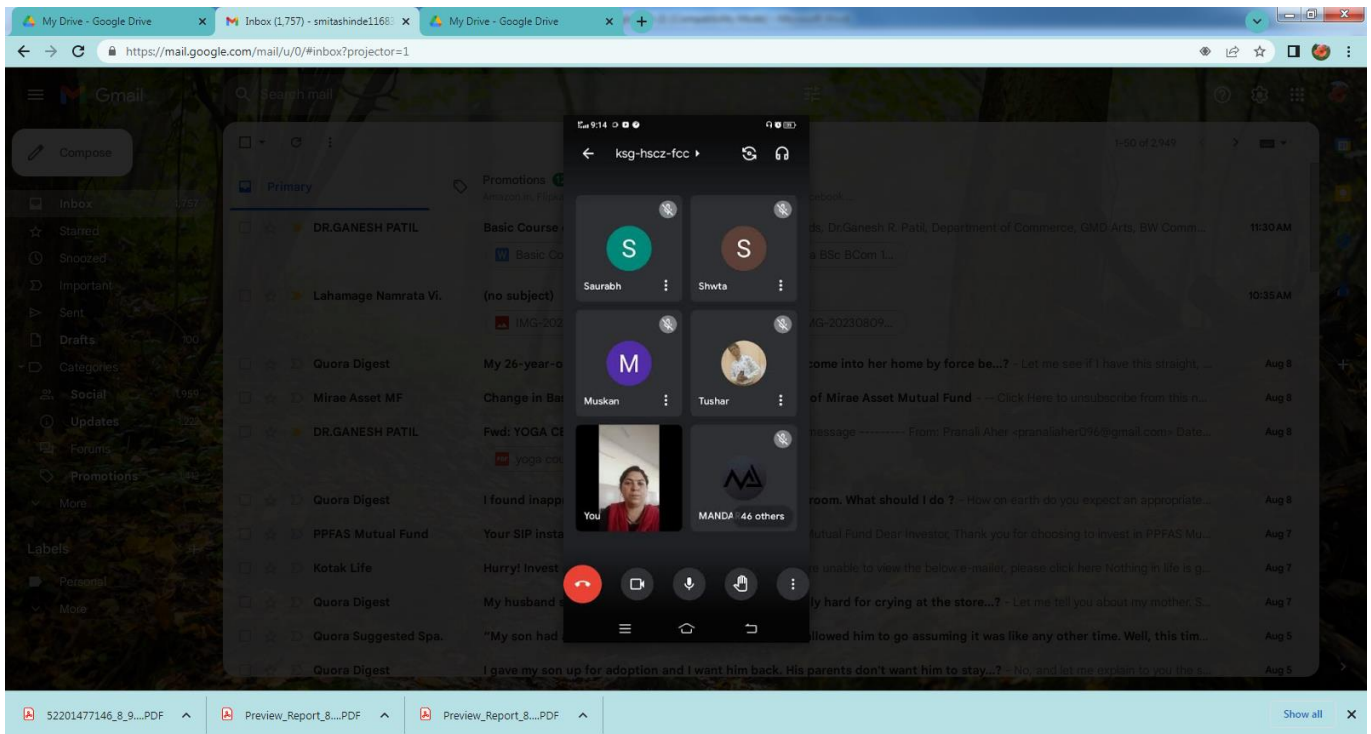


Figure 1: Google Meet Lecture by the Expert Mrs..D. S. Suryawanshi

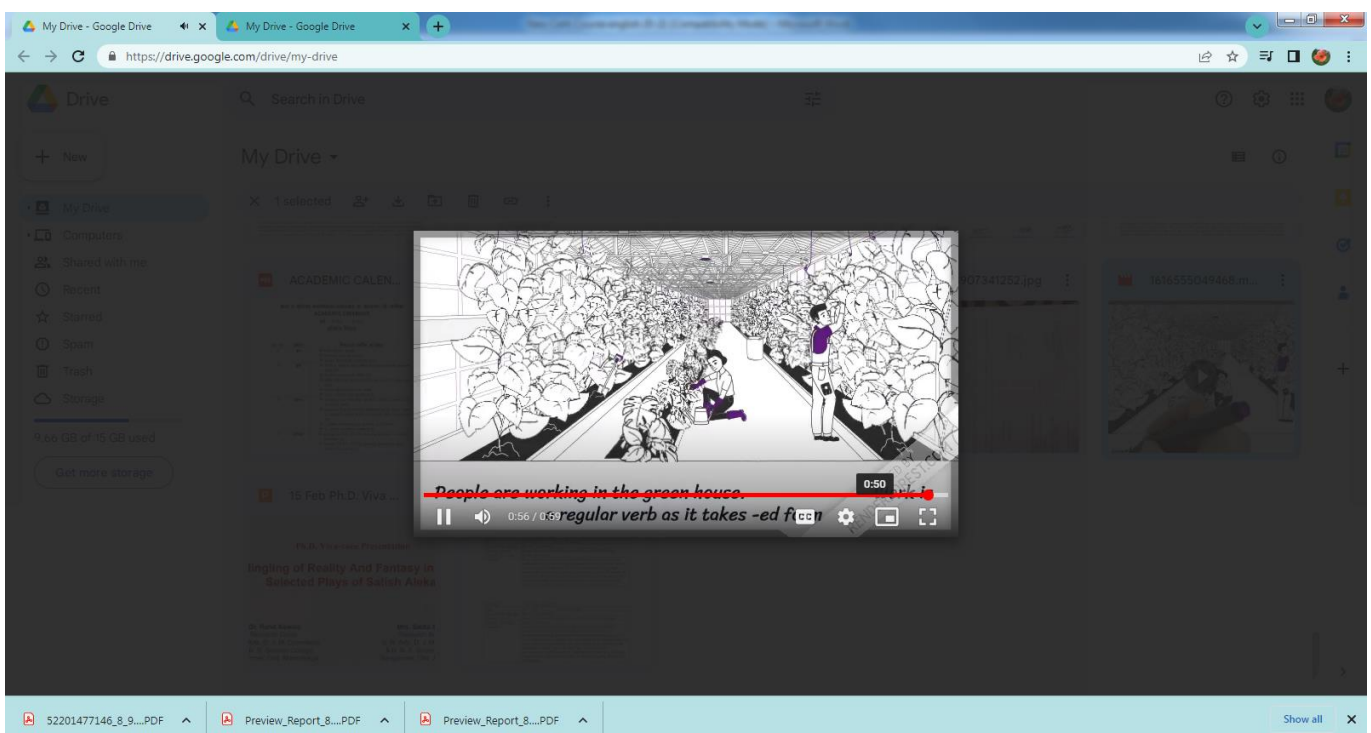


Figure 2: Lecture conducted on video

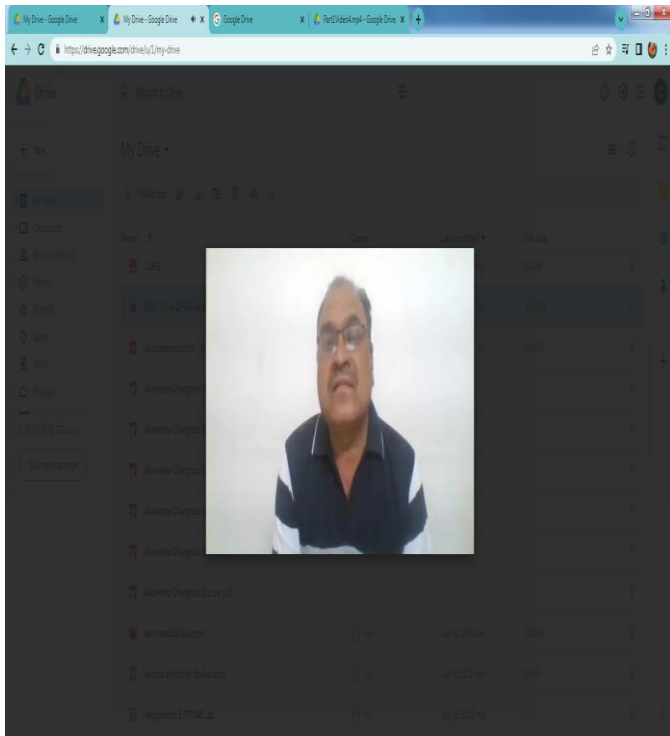


Figure 31: Video Lecture

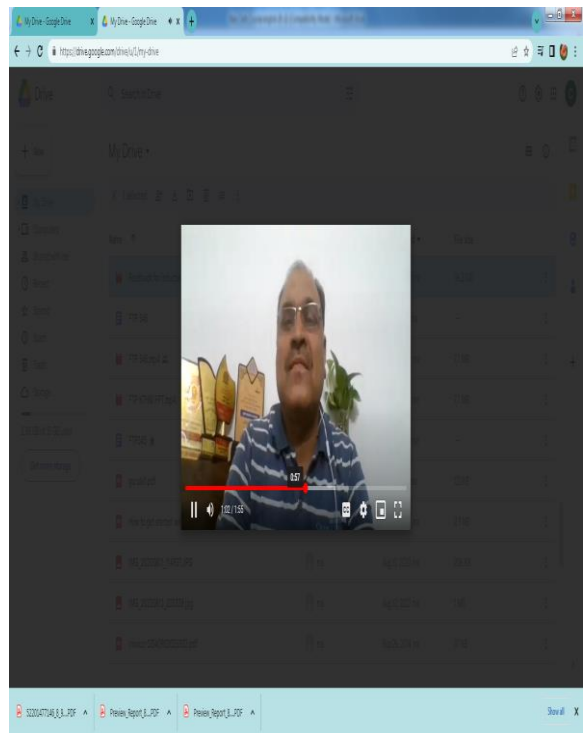


Figure 4: Video Lecture


CO-ORDINATOR
IQAC
G.M.D. Arts, B.W. Commerce
And Science College, Sinnar




Principal
G. M. D. Arts, B. W. Commerce and
Science College, Sinnar, Dist.Nashik



Maratha Vidya Prasarak Samaj's
G.M.D Arts, B.W Commerce and Science College Sinnar- Nashik
Affiliated to the Savitribai Phule Pune University, Pune

CERTIFICATE

OF APPRECIATION

This is to certify that Mr./Ms./ Mrs. _____

_____ has actively completed the
Certificate Course in Enriching Communicative Competence in English

organized By

Department of English in collaboration with IQAC during
01/02/2021 to 15/02/2021

His / Her participation is highly appreciated and
best wishes for their future endeavors

Dr. C. E.Gurule
HOD & IQAC COORDINATOR

Dr. P.V.Rasal
Principal



MVP Samaj's

G.M.D. Arts, B.W. Commerce & Science College, Sinnar

Department of Computer Science

(AY 2020-21)

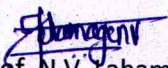
Date: 05/12/2020

Certificate Course in
Introduction to Information and Cyber Security

Notice

All the students of the UG and PG classes are hereby informed that the department of Computer Science is going to conduct an online certificate course on '**Introduction to Information and Cyber Security**' from 1st Jan. 2021 to 31st Jan. 2021. All the interested students should contact Smt. N.V. Lahamage (HoD, Department of Computer Science) for registration on or before 31st Dec 2020. After the completion of the course, the certificate will be issued.


Note- It is mandatory for all the PG students to register for the course.


Prof. N.V. Lahamage

Co-ordinator
HEAD

DEPARTMENT OF COMPUTER SCIENCE
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar




Dr. P.V. Rasal

PRINCIPAL
G.M.D. Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik



MVP Samaj's

G.M.D. Arts, B.W. Commerce & Science College, Sinnar

Department of English

syllabus and Outcomes

Certificate Course in

INTRODUCTION TO INFORMATION AND CYBER SECURITY

Syllabus

Chapter 1: Overview of Networking Concepts

1. Basics of Communication Systems
2. Transmission Media
3. Topology and Types of Networks
4. TCP/IP Protocol Stacks
5. Wireless Networks
6. The Internet

Chapter 2: Information Security Concepts

1. Information Security Overview: Background and Current Scenario
2. Types of Attacks
3. Goals for Security
4. E-commerce Security
5. Computer Forensics
6. Steganography

Chapter 3: Security Threats and Vulnerabilities

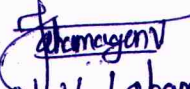
1. Overview of Security threats
2. Weak / Strong Passwords and Password Cracking
3. Insecure Network connections
4. Malicious Code
5. Programming Bugs
6. Cyber crime and Cyber terrorism
7. Information Warfare and Surveillance

Chapter 4: Cryptography / Encryption

1. Introduction to Cryptography / Encryption
2. Digital Signatures
3. Public Key infrastructure
4. Applications of Cryptography
5. Tools and techniques of Cryptography

Learning Outcomes

- Protect and defend computer systems and networks from cyber security attacks.
- Diagnose and investigate cybersecurity events or crimes related to computer systems and digital evidence. ...
- Effectively communicate in a professional setting to address information security issues.


(Prof. N. V. Lahamaye)
Head Dept. of Comp. sci




PRINCIPAL
G.M.D.Arts, B.W.Commerce and
Science College, Sinnar, Dist.Nashik



MVP Samaj's

G.M.D. Arts, B.W. Commerce & Science College, Sinnar

Department of Computer Science


(AY 2020-21)

Certificate Course in
Introduction to Information and Cyber Security

Attendance and Result Report

The department of Computer Science has conducted an Online Certificate Course on 'Introduction to Information and Cyber Security' from 1st Jan. 2021 to 31st Jan. 2021. For the course, 671 students have enrolled from TYBSc, TYBCS, M.A., M. Com. and M.Sc. The lectures in on-line mode were conducted in on-line mode. Approximately 97 students joined at Google Meet and the remaining students joined the You Tube links. The online examination of 25 marks was conducted by the department of Computer Science. The result was as follows:


Enrolled Students	Appeared Students	Absent Students	Passed Students	Failed Students	Percentage of Passing
671	659	12	626	33	94.99


Prof. N.V. Lahamage

Co-ordinator
HEAD

DEPARTMENT OF COMPUTER SCIENCE
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar




Dr. P.V. Rasal

PRINCIPAL
G.M.D.Arts, B.W.Commerce and
Science College, Sinnar, Dist. Nashik

Evidences of Videos Lectures on You Tube & Google Classroom

Certificate Course in Introduction to Information and Cyber Security

Links for the lectures

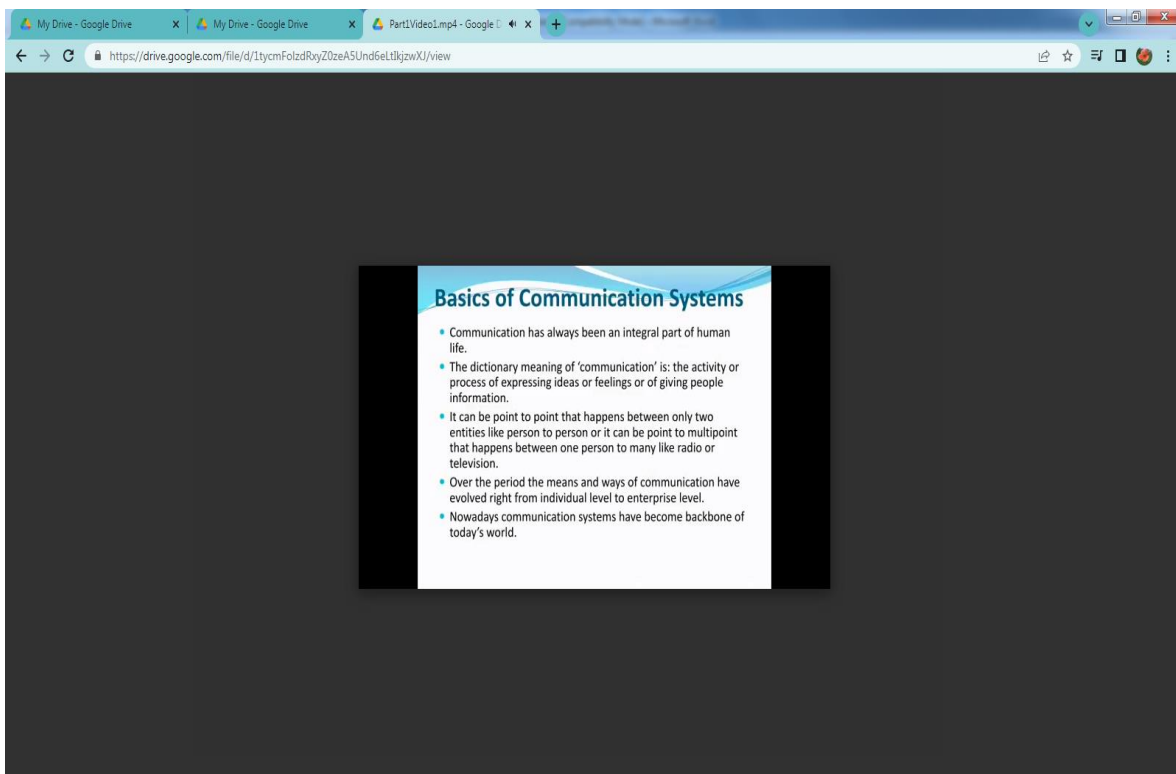
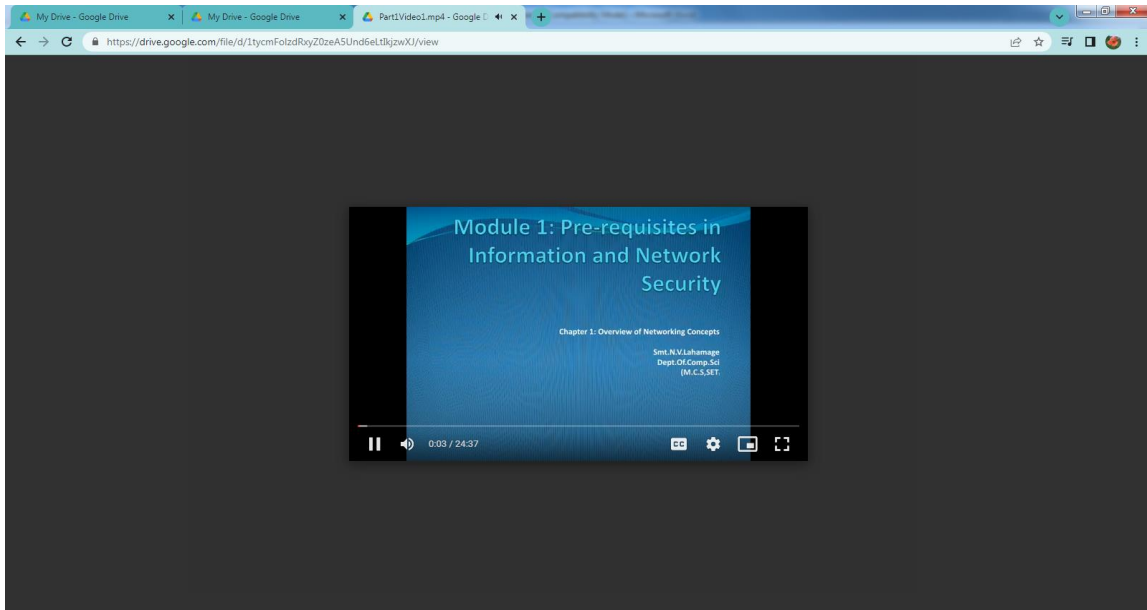
- <https://drive.google.com/file/d/1tycmFolzdRxyZ0zeA5Und6eLtlkzwxJ/view?usp=sharing>
- https://drive.google.com/file/d/1tCfmNWApKJxcR3U4e_TMRXsoK6zljYKX/view?usp=sharing
- <https://drive.google.com/file/d/1oV-fg9EBA87HVi5kPwWF3jLAlpygxmIN/view?usp=sharing>
- <https://drive.google.com/file/d/1HRExXQPlykg1HHECOoEzOzs9fOkKAz0x/view?usp=sharing>
- <https://drive.google.com/file/d/16HXHqvo2IMLiyzdTVPiFOCbMbKqss-3H/view?usp=sharing>
- https://drive.google.com/file/d/11Zes_U1ce94qk3kv53i7rC_0UgXNvRGB/view?usp=sharing
- https://drive.google.com/file/d/11Zes_U1ce94qk3kv53i7rC_0UgXNvRGB/view?usp=sharing


CO-ORDINATOR
IQAC
G.M.D. Arts, B.W. Commerce
And Science College, Sinnar




Principal
G. M. D. Arts, B. W. Commerce and
Science College, Sinnar, Dist. Nashik

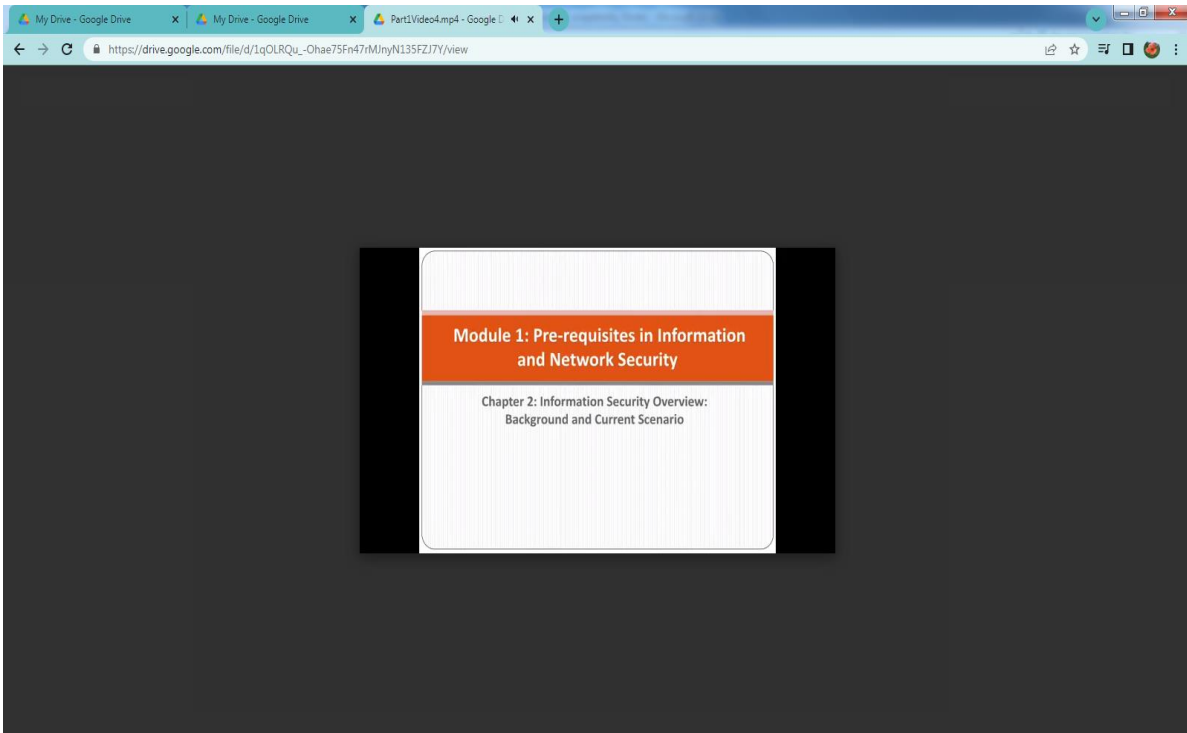
Video Lectures



Quell
CO-ORDINATOR
IQAC
G.M.D. Arts, B.W. Commerce
And Science College, Sinnar



Neel
Principal
G. M. D. Arts, B. W. Commerce and
Science College, Sinnar, Dist.Nashik



Quail
CO-ORDINATOR
IQAC
G.M.D. Arts, B.W. Commerce
And Science College, Sinnar



Quail
Principal
G. M. D. Arts, B. W. Commerce and
Science College, Sinnar, Dist.Nashik



Maratha Vidya Prasarak Samaj's
G.M.D Arts, B.W Commerce and Science College Sinnar- Nashik
Affiliated to the Savitribai Phule Pune University, Pune

CERTIFICATE OF ACHIEVEMENT

This is to certify that Mr./Ms./ Mrs./ _____
_____ has

actively completed the

Certificate Course in Introduction to Information and Cyber Security

organized By Department of Computer Science in collaboration with IQAC during
01/01/2021 to 31/01/2021

His / Her participation is highly appreciated and best wishes for their future endeavors

Prof. N. V. Lahamage
HOD

Dr. C.E. Gurule
IQAC Coordinator

Dr. P.V.Rasal
Principal