



**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  
NOTICE AND OUTCOMES  
2018-19**



**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 4<sup>th</sup> 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 Vidya Prasarak Samaj's  
G.M.D. Arts, B.W. Commerce and Science College Sinnar

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### INSTITUTIONAL NOTICE AND OUTCOME FOR CERTIFICATE COURSE 2018-19

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

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**Department** : **Chemistry**

**Activity** : **Certificate Course in Water and Soil Analysis.**

**Level** : **Departmental.**

**Organizer** : **Department of Chemistry**

**Date** : **21/01/2019 to 20/02/2019.**

**Total Participant** : **Total: 19 M: 07 F: 012**

**Report** : **Department of chemistry conduct certificate course of one month in water and soil analysis. Total 19 students are admitted to this course**



**Mr. H. A. Dabhane**

**HEAD**

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



  
**Dr. Dilip B. Shinde**

**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,  
SINAR, NASHIK-422103 (MS), INDIA.  
NAAC Re-Accredited 'A' Grade College (CGPA 3.04)  
ISO 9001:2015 Certified College



## Department of Chemistry

Date: -07/01/2019

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

Subject: - **About the permission to conduct certificate course in Water and Soil Analysis...**

Respected Sir,

As per above mention subject and by considering the best practice of Chemistry department, I would like to informed you that our Chemistry department willing to conduct certificate course in water and soil analysis in 2018-19 academic year. Please give us the permission and support for the same.

Thanking You.

Mr. H. A. Dabhane  
Head, D

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



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

Date: -08/01/2019

### Notice


Students of T.Y.B.Sc are hereby informed that, our department will be going to conduct short term certificate course in water and soil analysis. Interested students should confirm their registration by filling up the registration form before 12<sup>th</sup> January 2019. Contact to Dr. K. R. Waggh (Department of Chemistry) for more information.

- Certificate Course in Water analysis: Maximum Capacity – 10 Students.
- Certificate Course in Soil analysis: Maximum Capacity- 10 Students.

  
Mr. H. A. Dabhane

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



  
Dr. Dilip B. Shinde

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



**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- 2018 - 2019**

Sr. No.	Name of the student	Marks Obtained out of 20
01	Chavanke Nilesh Shankar	15
02	Daware Pratiksha Chandrabhan	18
03	Dhange Nikita Santosh	19
04	Ghotekar Abhijit Eknath	20
05	Gorade Akshada trambak	16
06	Jadhav Mahesh narayan	15
07	Jha Ankit Ashok	15
08	Kadam nagesh Bhaskar	17
09	Kakad gayatri Arun	18
10	Mali Monika Chandrabhan	19
11	Nawale Ashwini Bhagwat	20
12	Pawar Snehal Machindra	18
13	Raut Rohini Sudhakar	20
14	Sanap Dhanshree Vijay	18
15	Shelke shital harishchandra	17
16	Sanap Chhaya Maruti	18
17	Shinde Pratik Uttam	19
18	Sing Angesh Dharmendra	18
19	Nawale Gayatri Arun	15

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

*Nesul*  
**Principal**  
G. M. D. Arts, B. W. Commerce  
Science College, Sinnar, Dist. N



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**Strengthening Communication Skills in English**  
**Syllabus**

- Unit1: Verbal and Non-Verbal Communication**
- a) Means and meaning of NV Communication
  - b) Formal Communication
  - c) Informal Communication
  - d) Elements of Communication
  - e) Barriers of Communication & It's remedies
- Unit2: Grammar**
- a) Sentences
  - b) Tense
  - c) Question forms
  - d) Prepositions, articles, conjunctions
  - e) Voices, Speeches
- Unit3: Vocabulary Building**
- a) One-word substitutes
  - b) Idioms
  - c) Suffixes and prefixes
  - d) 4. Commonly Confused Words
  - e) Collocations: Words that go together
- Unit4: Writing Skills**
- a) Paragraph Writing
  - b) Letter Writing
  - c) E-mail Writing
  - d) Blog Writing
  - e) Creative Writing

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MVP Samaj's  
**G.M.D. Arts, B.W. Commerce & Science College, Sinnar**  
 Department of English (AY 2018-19)  
 MVP Samaj's  
**Strengthening Communication Skills in English**  
**Marksheet**

Sr. No.	Name of the Student	Written	Oral	Total
1	Andhale Ashwini Kiran	18	14	32
2	Gaikwad Sheetal Ramesh	16	12	28
3	Kadale Sunanda Vishwanath	21	14	35
4	Katore Shantaram Nandu	22	16	38
5	Kunde Navanath Vishnu	20	11	31
6	Lohre Saralabai Sudam	25	15	40
7	Madhe Bhaurao Laxman	24	16	40
8	More Bharati Waliba	18	12	30
9	Abhang Jayashri Nivrutti	16	14	30
10	Adhangale Aishwarya B.	12	16	28
11	Adhan gale Snehal Sanjay	14	14	28
12	Adhangle Priyanka Madhukar	16	14	30
13	Ambaker Varsha Vilas	20	12	32
14	Bartle Lzxman Sampat	22	11	33
15	Barde Sarika Sanjay	24	15	39
16	Bhagat Akash Raghunath	28	15	43
17	Bhalerao Sagar Vitthal	18	08	26
18	Bhalsing Sheetal And	16	14	30
19	Bhangare Yamuna Marull	22	12	34
20	Bramhane Amol Kailas	24	12	36
21	Chandramore Sucfarshan S.	20	10	30
22	Dagale Anita Gotiram	16	12	28
23	Jadhav Sujata Dattu	19	14	33
24	Jadhav Swati Namdeo	18	14	32

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

Department of English

Date:- 2<sup>nd</sup> Aug. 2018

Notice

All the students of F.Y.B.A. and F.Y.B.Com are hereby informed that the Department of English is going to conduct a certificate course, 'Strengthening Communication Skills in English' from 8<sup>th</sup> Aug. 2018 to 15<sup>th</sup> Sept. 2018. The students can register their names to the following teachers.

Name of the Teachers

1. Mr. V.C. Badwar
2. Mrs. S.R. Shinde



Mr. V.C. Badwar  
Co-ordinator



Prof. U.A. Ashturkar  
Head

Dr. D.B. Shinde  
Principal



मराठा विद्या प्रसारक समाज, नाशिक

गु.मा.दां.कला, भ. वा. वाणिज्य व विज्ञान महाविद्यालय, सिन्नर



सुवर्ण महोत्सवी वर्ष २०१८-२०१९

अंतर्गत गुणवत्ता सिध्दता कक्षाच्या शिफारशीनुसार (IQAC)

इतिहास विभाग आयोजित

# मोडी लिपी प्रशिक्षण वर्ग

अध्यक्ष :- प्राचार्य डॉ. दिलीप बी. शिंदे

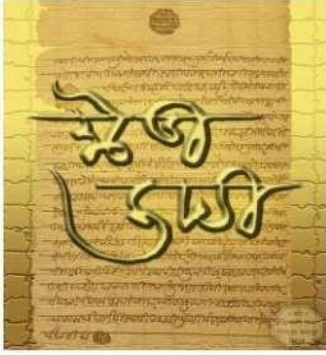
\*आयोजक\*

प्रा. एस.आर. मोरे  
(इतिहास विभाग)

प्रा. ए. एन. डिंबर  
(इतिहास विभाग प्रमुख)

\*मार्गदर्शक\*

श्री. कैलास तांबे  
(मोडी लिपी तज्ञ)



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**  
**G.M.D. ARTS, B.W. COMMERCE & SCIENCE COLLEGE, SINNAR**  
 Tal SINNAR Dist NASHIK

**Department of History**

**Modi lipi Result 2018 - 19**

Sr.No.	Name of the Students	Class	Grade
1	Bhandkar Shubham Khandu	F.Y. BA	
2	Bhor Pravin Namdev	F.Y. BA	C
3	Jadhav Nilesh Sitaram	F.Y. BA	-
4	Ambedkar Vrushali Bhausheth	F.Y. BA	A
5	Jahagirdar Janin Fattekhan	F.Y. BA	A
6	Patil Kaveri Chandrakant	F.Y. BA	A
7	Murkute Shital Raosaheb	F.Y. BA	C
8	Pawar Shital Tanaji	F.Y. B.com	B
9	Sahane Ravina Pandurang	F.Y. B.com	A
10	Aavhad Yogita Dilip	F.Y. BA	B
11	Aavhad Swati Ratan	S.Y. B.com	B
12	Gadakh Vrunda Subhash	S.Y. BA	B
13	Sanap Swati Vithoba	F.Y. BA	C
14	Sapkal Harshali Namdev	F.Y. BA	A
15	Bhalerao Suvarna Sahebrao	S.Y. B.com	B
16	Aavhad Samadhan RajaRam	F.Y. BA	-
17	Gayakwad Pooja Laxman	S.Y. BA	-
18	Shinde Vaishali Dilip	S.Y. BA	A+
19	Jaybhave Hrishikesh Navnath	F.Y. BA	C
20	Jaybhave Vrushali Shriram	F.Y. B.com	-
21	Bhise Nisha Kailas	S.Y. BA	C
22			
23			

49  
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**Maratha Vidya Prasarak Samaj, Nashik**  
**G.M.D.Arts, B.W. Commerce and Science College,**  
**Sinnar**  
**Department of Commerce**  
**2018-19**


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All the students admitted in FYBCOM class in the academic year 2018-19 in the college are informed that the **Certificate Course on Tally ERP.9**, will be held from Monday 10 Sept.2018 to Saturday 26 Sept.2018. However, all the students should follow the following schedule .

Sr.No.	Name of the Teacher	Subject	Date	Time
1	Prof.S.P.Jadhav	Tally ERP.9	10/09/2018 to 26/09/2018	12.00 pm to 1.30 pm

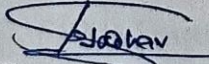
The examination of the above subjects will be held through online mode on Saturday, 30/09/2018 between 12.00 pm to 12.45 pm. All the students has compulsory to attend the examination.

  
**HOD**  
**HEAD**  
**DEPARTMENT OF COMMERCE**  
**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**

**G.M.D.Arts, B.W. Commerce and Science College, Sinnar**  
**Department of Commerce**  
**Certificate Course on Tally ERP.9**  
Mark list 2018-19

Sr.No.	Name Of the Student	Marks Out of 50	Remarks
1	Avhad Varsha Prakash	38	
2	Avhad Yogesh Murlidhar	40	
3	Awari Rupali Vitthal	32	
4	Badgujar Shubham Shamkant	36	
5	Bagul Gayatri Bhikan	38	
6	Bagul Mansi Sanjay	40	
7	Bakale Saloni Sunil	42	
8	Buchude Rutika Balasaheb	40	
9	Chavan Akshay Sunil	36	
10	Chavan Amruta Sandeep	36	
11	Chavan Kajal Kaduba	34	
12	Chavan Rushikesh Dattatray	28	
13	Chavhanke Kajal Vilas	34	
14	Erande Priyanka Namdeo	38	
15	Gadakh Archana Sunil	40	
16	Gade Rutik Vishnu	38	
17	Gadekar Ishwar Dilip	30	
18	Gadekar Rohit Deepak	40	
19	Gaikwad Pooja Prabhakar	38	
20	Jagtap Kajol Rohidas	36	
21	Jondhale Sagar Shivaji	32	
22	Kadale Sonali Devidas	34	
23	Kadbhane Shubhangi Arun	36	
24	Kadbhane Tejas Sudhakar	38	
25	Kadbhane Umesh Shivaji	32	

  
Co-ordinator

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

  
Principal  
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,**

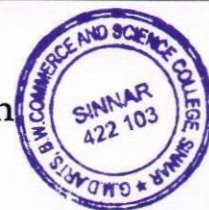
Nashik-Pune Highway, Sinnar, Dist.Nashik-422 103

**SYLLABUS**

**Certificate Course in Food Processing and  
Preservation**

**A.Y- 2018-19**

# Certificate Course Food Processing and Preservation (A.Y.2018-19)



## ❖ 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:

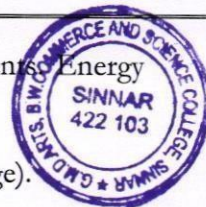
- i. Non enzymic browning: Maillard reaction, browning of ascorbic acid, caramelization of sugars.
- ii. Enzymic browning: Definition, mechanism, control measures.

## ➤ Unit-II



Concept of food and nutrition - Elements of nutrition, Food groups and role of nutrients, 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.



Maratha Vidya Prasarak Samaj's  
**G. M. D. ARTS, B. W. COMMERCE & SCIENCE COLLEGE, SINNAR, NASHIK**  
**Marks-Diploma in Food Processing and Preservation Course**  
**2018-19**

Roll No.	Name of the Student	Marks obtained (Out of 100)
1.	Aglave Rutuja Ravindra	85
2.	Arkhade Shubham Dattatray	79
3.	Bakare Satyam Somnath	78
4.	Bhadange Prasad Suresh	69
5.	Burkul Dhanjay Khandu	80
6.	Chakor Prajakta Satish	71
7.	Deshmukh Dipak Eknath	68
8.	Devre Rupesh Sanjay	76
9.	Dherenge Nikita Balasaheb	78
10.	Dond Sonali Suresh	54
11.	Gade VivekTanaji	90
12.	Gaikwad Supriya Rajendra	79
13.	Gangawane Shubham Sanjay	76
14.	Gurule Shreyash Dnyaneshwar	70
15.	Ingale Atul Devidas	71
16.	Katare Rohit Sadashiv	78
17.	Murkute Jayashree Rajendra	72
18.	Mutadak Gauri Rajendra	67
19.	Naik Tejas Uday	78
20.	Pathan Sumer Aasif	69
21.	Shinde Rushikesh Dattatray	68
22.	Suryawanshi Durgesh Arvind	73
23.	Zagade Pandurang Kundlik	70

  
**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,**

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.2018-19)

#### ❖ 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.

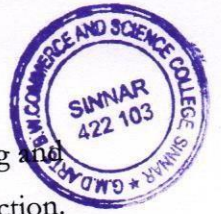
- **Unit-II**

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 including backyard dairy and

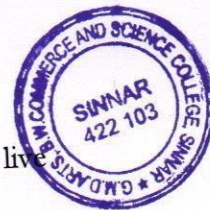


mixed farms. Routine dairy farm operations and labor management Methods of milking and precautions. Factors affecting quality and quantity of milk production. Clean max production. Dairy farm accounts and records. Concepts of input and output cost of dairy farming (small and large holdings).

➤ **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.

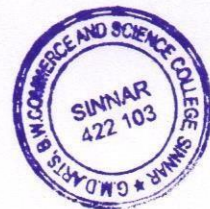
### ❖ Fodder Production and Grassland Management

#### ➤ 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

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 )  
(2018-2019)

Student Name	Internal Marks (50)	External Marks (50)	Total Marks (100)
Chavanke Nilesh Balasaheb	40	45	95
Gaikwad Ganesh Shankar	46	45	91
Nagare Uddhav Ashok	43	40	83
Pawar Rushikesh Manoj	44	45	89
Sabale Vandana Baban	42	40	82
Sadgir Yogesh Dnyaneshwar	45	45	90
Shinde Sachin Mhalu	45	43	88
Murdekar Uttam Jyotiba	48	48	96
Nikam Keda Tukaram	42	45	87
Shinde Sudam Vishnu	46	45	91
Ugale Vilas Shripat	43	46	89
Waje Balu Kondaji	45	40	85
Warungase Ramdas Nivrutti	46	45	91
Zinjurde Govind Rambhau	44	45	89
Yadav Shivnaresh Shivnaresh	45	43	88
Warungase Kisan Ganpat	44	39	83
Varandal Pandit Tukaram	43	40	83
Sonawane Yashwant Narhari	43	39	82
Shinde Sunil Vishwanath	38	45	83
Kapoor Nandlal Ramsaran	40	45	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,





**Internal Quality Assurance Cell (2018-2019)**

**Report of Event/Programme**

<b>Name of the Department/committee</b>	<b>History</b>		
<b>Name of the Coordinator</b>	<b>Prof. S.K.Aware</b>		
<b>Title of the Event/Programme</b>	<b>Gandhian Philosophy Exam</b>		
<b>Date/Period of Event/Programme</b>	13/12 /2018		
<b>Objective of the event/Programme</b>	<ol style="list-style-type: none"> <li>1. To imbibe Gandhi' values in the society</li> <li>2. To introduce the literature of Gandhi to the students</li> <li>3. To inculcate Gandhian ideology in students</li> <li>4. To understand the character of Gandhi to the students</li> </ol>		
<b>Sponsored Agency/Institute</b>	G.M.D. Arts, B.W. Commerce and Science College, Sinnar		
No. of the Teacher involved in organizing activity-No. of the Students involved in organizing activity- <b>Total involved in organizing activity-</b>	Male: 3 Male: 2 <b>Male: 5</b>	Female: 0 Female: 3 <b>Female : 3</b>	Total: 3 Total: 5 <b>Total: 8</b>
No. of the Participant-Students No. of the Participant-Teachers No. of the Participants other than Teachers/Students <b>Total Participants-</b>	Male: 100 Male: - Male: <b>Male: 100</b>	Female: 105 Female: Female: <b>Female : 105</b>	Total: 205 Total : Total: <b>Total: 205</b>
<b>Name of the Expert/Invitee/Lecturer (With Designation, Contact, Address &amp; email etc.)</b>	<b>Gandhi Research Foundation, Jalgaon, Maharashtra. 94049553226</b>		
<b>Impact of extension activities in sensitizing students to social issues and holistic development.(Two lines)</b>	Students become aware of Gandhian ideology and philosophy who started trying to put his ideas into practice.		
<b>Outcome of the activity</b>	<ol style="list-style-type: none"> <li>1. Gandhi's values were cultivated.</li> <li>2. Students became aware of the literature</li> <li>3. Gandhian ideology was inculcated in the students.</li> <li>4. Students understood the character of Gandhi.</li> </ol>		
<b>Expenditure (Rs) (if An</b>	NIL		
<b>Venue of the Event/ Programme</b>	G.M.D. Arts, B.W. Commerce and Science College, Sinnar		



MARATHA VIDYA PRASARAK SAMAJ'S

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

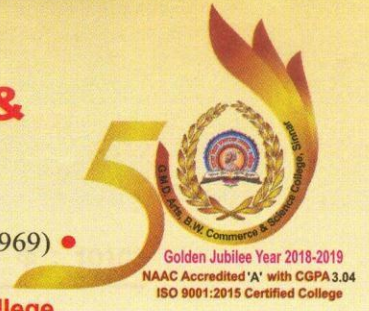
Tal. Sinnar, Dist. Nashik - 422 103 (M.S.) India.

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• Junior College Index No. J.13.13.001 •

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Golden Jubilee Year 2018-2019  
NAAC Accredited 'A' with CGPA 3.04  
ISO 9001:2015 Certified College

Principal  
**Dr. Dilip B. Shinde**  
M.Com., M.Phil., D.T.L., Ph.D.

Best College Award by Savitribai Phule Pune University 2012-13

Ref. No. : 134612018-19

Date : 26/12/2018

प्रति,  
मा.व्यवस्थापक सो.,  
गांधी रिसर्च फाउण्डेशन,  
गांधी तीर्थ, जैन हिल्स,  
जळगांव - ४२५००१ [महाराष्ट्र]

विषय:- गांधी विचार संस्कार परीक्षेस बसलेल्या विद्यार्थ्यांची माहिती बाबत...

संदर्भ:- म.वि.प्र.समाज, नाशिक परिपत्रक क्र. ८१९५/२०१८-१९ दि.१७/०९/२०१८

महोदय,

वरील विषय व संदर्भीय पत्रान्वये कळवू इच्छितो की, गांधी विचार संस्कार परीक्षेस हया महाविद्यालयातील एकूण ३४६ विद्यार्थ्यांनी सहभाग घेतला होता. यापैकी २०६ विद्यार्थी परीक्षेस बसले होते. त्यांची वर्गवार माहिती आणि मिळालेले गुण आपल्या माहितीसाठी कळवित आहे. सदर विद्यार्थ्यांचे प्रमाणपत्र या महाविद्यालयास पाठवावे, हि विनंती.

कळावे,

आपला विश्वासू,

(डॉ.दिलीप बी.शिंदे)  
प्राचार्य

सोबत : १. प्रपत्र - क  
२. विद्यार्थ्यांची यादी (परीक्षेत प्राप्त केलेल्या गुणांसह)



## गांधी रिसर्च फाउंडेशन, जळगाव.

नोंदणी क : 10103

गांधी विचार संस्कार परीक्षा 2018-2019

### प्रपत्र - क

गांधी विचार संस्कार परीक्षा 2018 मधील गुणानुक्रमे यशस्वी विद्यार्थ्यांची (इयत्ता नुसार) यादी खालील प्रमाणे आहे.

वर्ग	11 वी	12 वी	प्रथम वर्ष	द्वितीय वर्ष	तृतीय वर्ष	पदवृत्तर भाग 1	पदवृत्तर भाग 2
परीक्षेस उपस्थित विद्यार्थी संख्या	103	59	32	10	02	00	00

इयत्ता 11 वी		
अ.क्र.	विद्यार्थ्यांचे नाव (आडनाव प्रथम)	प्राप्त गुण
1	माळी वैभव संपत	54
2	शिंदे शितल बाजीराव	51
3	अन्सारी नगमापरवीन अशरफ	50
4	रोकडे सिध्दार्थ ज्ञानेश्वर	50

द्वितीय वर्ष		
अ.क्र.	विद्यार्थ्यांचे नाव (आडनाव प्रथम)	प्राप्त गुण
1	डावरे तेजश्विनी एकनाथ	51
2	डावरे माधुरी राजेंद्र	45
3	गुरुळे जयश्री भीवाजी	43

इयत्ता 12 वी		
अ.क्र.	विद्यार्थ्यांचे नाव (आडनाव प्रथम)	प्राप्त गुण
1	शेटे रोशन रोहिदास	52
2	भाबड अक्षय राजू	51
3	घाटुळ पूजा तुकाराम	50

तृतीय वर्ष		
अ.क्र.	विद्यार्थ्यांचे नाव (आडनाव प्रथम)	प्राप्त गुण
1	जगताप आम्रपाली कैलास	48
2	नाईक प्रतिभा विजय	37

प्रथम वर्ष		
अ.क्र.	विद्यार्थ्यांचे नाव (आडनाव प्रथम)	प्राप्त गुण
1	पानसरे पल्लवी संजय	59
2	आरोटे रुतुजा बंडू	57
3	चौधरी सुवर्णा अशोक	55

- गांधी विचार संस्कार परीक्षेला बसलेल्या एकूण विद्यार्थ्यांची संख्या :- 346
- गांधी विचार संस्कार परीक्षेला उपस्थित असलेल्या एकूण विद्यार्थ्यांची संख्या :- 206
- एकूण समन्वयक :- 02

  
(प्रा.एस.बी.अहिरे)  
समन्वयक

  
(प्रा.आर.व्ही.पवार)  
समन्वयक

  
(डॉ.दिलीप बी.शिंदे)  
प्राचार्य  
जी.एम.डी. आर्ट्स, वी.डब्ल्यू. कॉमर्स  
& सायन्स कॉलेज, सिन्नर, जि. नाशिक