

### **Outcomes of Contribution of IQAC in Strengthening Research Culture in Academic year 2020-21:**

- 29 research papers were published in the Journals notified on UGC website.
- 14 books and book chapters in edited volumes/books published and papers published in national/ international conference proceedings per
- 8 Collaborative activities for research, Faculty exchange, Student exchange/ internship has been done
- 16 professional development /administrative training programs organized by the institution for teaching and non-teaching staff
- There are 1262 students undertaking research project work/field work/ internship.



ANEKANT EDUCATION SOCIETY'S  
**JAYSINGPUR COLLEGE,**  
**JAYSINGPUR**

INTERNAL QUALITY  
ASSURANCE CELL  
(IQAC)






**PROCEEDING BOOK**  
**ACADEMIC YEAR**  
**2020-2021**






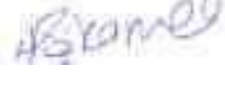

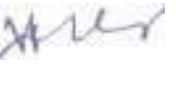
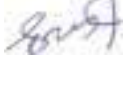


**Internal Quality Assurance Cell**

## Meeting No. 1 (Planning Meeting)

- 1. Name of the committee** : Internal Quality Assurance Cell
- 2. Date** : Thursday, 16<sup>th</sup> July 2020
- 3. Meeting No** : 01 (2020-2021)
- 4. Meeting Time** : 11.30 a.m.
- 5. Meeting Place** : Online (Zoom Platform)
- 6. Chairman of the meeting** : Prin. Dr. R. R. Kumbhar
- 7. Coordinator of the committee** : Dr. S. R. Sabale

The first meeting of the academic year 2020-21 of the members of the IQAC committee was held by online mode on Thursday, 16<sup>th</sup> July 2020 at 11.00 a.m. Following members were present in the meeting.

1	Prin. Dr. R. R. Kumbhar	Chairman	
2	Dr. S. R. Sabale	Coordinator	
3	Dr. P.P. Chikode	Co-coordinator	
4	Prin. Dr. D. G. Kanase	Advisor	
5	Dr. M. R. Akkole	Management	

6	Mr. A. S. Shriguppe	Management	
7	Mrs. V. V. Chougule	Member	
8	Mrs. S. R. Nakate	Member	
9	Mr. R. D. Shinde	Member	
10	Dr. T. G. Ghatage	Member	
11	Mr. G. H. Nikam	Member	
12	Dr. B. M. Sargar	Member	
13	Miss. V. B. Devkar	Member	
14	Shri S. D. Magdum (O.S.)	Member	
15	Dr. Atique Patel	Member	
16	Dr. Vikas Jadhav	Member	

17	Mr. Sarabjit Singh Ahuja	Member	
18	Mr. Abhijeet Bhandigare	Member	
19	Mr. Yogesh M. Kurundwade	Member	
20	Miss P. A. Umaje	Member	
21	Mr. Sandip Madake	Member	
22	Sou. Madhavi Sawant	Member	

**Agenda:**

- [1] To review and confirm the minutes of the previous meeting
- [2] To discuss on planning of IQAC activities for the academic year 2020-21
- [3] To review on the status of the courses run through Karmveer Koushalya Kendra
- [4] To discuss on Institutional Development Plan
- [5] To discuss on preparation of academic calendar for the year 2020-21
- [6] To prepare annual teaching plan of individual faculty
- [7] To discuss about submission of AQAR of the academic year 2019-20
- [8] To prepare blueprint of individual time-table for all faculties
- [9] To plan for the online teaching in the period of Covid pandemic.

- [10] To discuss on the planning of arrangement of CIE.
- [11] To discuss on diagnostic test for 1st year students
- [12] To discuss on the report of Green Audit
- [13] To discuss about the MOUs, Linkages and Collaboration with ATR
- [14] To discuss on formation of various statutory, non-statutory and admission committees
- [15] To discuss the appointments of teaching and non-teaching staff
- [16] Implementation of wall papers and organization of national level online conferences, webinars and workshops
- [17] To take review on the online conference and webinar on Agriculture and Education respectively held in the month of May.
- [18] To discuss about the feedback analysis
- [19] To discuss about the arrangement of NSS and NCC extension activities
- [20] To discuss about the internal and external audit for the year 2019-20
- [21] Discussion on the issues with the permission of Chairman

### **Resolutions:**

Following points were discussed in the meeting

**1. To review and confirm the minutes of the previous meeting**

The minutes of the meeting held on 10th April 2019 were read by the IQAC coordinator. These minutes were confirmed by the committee.

**2. To discuss on planning of IQAC activities for the academic year 2020-21**

Planning on IQAC activities for the academic year 2020-21 on the following subjects has been done

### **3. To review on the status of the courses run through Karmveer Koushalya Kendra**

**Resolution:** Total 22 skill based and 8 value-added courses were introduced out of which 19 skill based and 5 value-added courses were implemented in the academic year 2019-20 through Karmveer Koushalya Kendra under the directorship of Dr. S. A. Manjare. Around 40% students were successfully admitted and completed the said courses. It was also resolved that same courses will be continued.

### **4. To discuss on Institutional Development Plan**

**Resolution: Under the Coordinatorship of Dr. S. A. Manjare,** Planning committee, it was resolved that the old canteen should be shifted to new constructed area. The review also taken on the Construction of chemistry laboratory, administrative block, new toilet blocks, mathematics and statistics department, physics dark room, audio/video recording room etc. It was resolved that renovation of the Automobile Workshop should be done.

### **5. To discuss on preparation of academic calendar for the year 2020-21**

**Resolution:** It was resolved that, separate committee for the academic calendar headed by Dr. S. R. Sabale should be constituted. The committee should prepare the academic calendar incorporating all the details of IQAC meeting, remedial course, bridgecourse, CIA, organization of workshops and national conferences, celebration of various National days, birth and death anniversary celebration of national leaders along with internal exams, annual Sports and cultural programs etc.

**6. To prepare annual teaching plan of each faculty**

**Resolution:** It was decided to ask each department to prepare an annual teaching plan as per the IQAC suggestions and format.

**7. To discuss about submission of AQAR of the academic year 2019-20**

**Resolution:** The discussion was made on the issues related to the submission of AQARs of the academic year 2020-21. It was also decided to submit the AQAR in new format by online mode on the NAAC portal before the deadline.

**8. To prepare blueprint of time-table for all faculty**

**Resolution:** It was decided that the time table of all the classes with faculty wise should be prepared under the coordinator ship of Dr. Mrs. M. V. Kale.

**9. To plan for the online teaching in the period of Covid pandemic**

**Resolution:** Due to a global Covid 19 pandemic, it was mandatory to teach students online. In this situation various options for the online teaching modes such as Zoom, Google Meet and Youtube will be considered and unanimously decided to opt any of the online mode for the teaching by the all faculty members.

**10. To discuss on the planning of arrangement of CIE**

**Resolution:** It was resolved that the continuous internal assessment should be conducted through seminar, assignments, regular topic test, surprise tests etc. by online mode during Covid.

**11. To discuss on diagnostic test for 1<sup>st</sup> year students**

**Resolution:** it was resolved that the departments should be conduct the diagnostic test for all first-year students once the admission process will be



completed. As per the IQAC policies, slow and advanced learners were identified and further steps should be taken timely.

## **12. To discuss about green audit**

**Resolution:** It was decided that the Institution should go for a green audit of the whole campus and Dr. S. R. Sabale, Dr. V. B. Deokar, Dr. R. S. Dhabbe, Dr. S. D. Umdale and Dr. S. R. Patil has given the responsibility to identify the procedure and authority for green audit. Dr. Vikas Jadhav from Archana Analytical Laboratory was given responsibility of green audit.

## **13. To discuss about the MoUs, Linkages and Collaboration**

**Resolution:** The review on present MoUs, linkages and collaborations has been done and it is decided to ask each department to submit the action taken report with respect to their linkages and collaborations. Each department will be instructed to add new MoUs, collaborations and linkages with various industries and institutions.

## **14. To discuss on formation of various statutory, non-statutory and admission committees**

**Resolution:** The discussion on formation of various statutory and non-statutory committees has been done. It was also discussed that the admission committee should be formatted faculty wise and this responsibility should be given to all vice principals.

## **15. To discuss the appointments of teaching and non-teaching staff**

**Resolution:** The appointment of supporting teaching and non-teaching staff for the academic year 2020-21 was considered. Appointment of teaching staff will be done according to the rules and regulations of Government of Maharashtra while

appointment of non-grantable post will be done as per the discussions with the management.

**16. Effective implementation of wall papers and organization of national level conferences and workshops**

**Resolution:** It was resolved to motivate the departments to organize workshops, conferences and seminars on various topics. It is also motivated to display wall papers prepared by students, organization of elocution, essay competitions one the Government will allow offline mode of teaching.

**17. To take review on the online conference and webinar on Agriculture and Education respectively held in the month of May.**

**Resolution:** One national multilingual conference on Agriculture and one national multilingual webinar on education was arranged through online mode. The reports were read in the meeting and resolved to congratulate all organizing committee for successful completion of these events.

**18. To discuss about the feedback Analysis**

**Resolution:** IQAC has discussed on the analysis of feedback taken from the all stakeholders and resolved all issues raised in the feedback.

**19. To discuss about the arrangement of NSS and NCC extension activities**

**Resolution:** It was decided to inform the NSS and NCC departments to prepare videos for the awareness of Covid-19 pandemic and preventive measures. It is also resolved to instruct NSS and NCC students to post all such videos on College YouTube channel.

**20. To discuss about the internal and external audit for the year 2019-20**

**Resolution:** The review on report of internal and external audit for the academic year 2019-20 has been taken and the issues have been resolved.

**21. Discussion on the issues with the permission of  
ChairmanPurchase committee**






**Resolution:** It was decided to take the subscription for Zoom App for online webinars and conferences. The purchase committee should be formatted as per the guidelines for the purchase of chemicals, glassware, stationery, sports equipment etc.






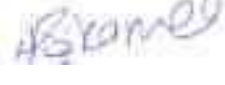

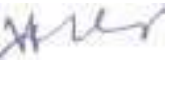
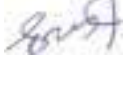


Finally, the meeting was concluded with the vote of thanks by IQAC coordinator with permission of the Chairman.

## Meeting No. 2 (Terminal Review Meeting)

1. **Name of the committee** : Internal Quality Assurance Cell
2. **Date** : Tuesday, 24<sup>th</sup> November 2020
3. **Meeting No.** : 02 (2020-21)
4. **Meeting Time** : 11.00 a.m.
5. **Meeting Place** : IQAC room
6. **Chairman of the meeting** : Prin. Dr. R. R. Kumbhar
7. **Coordinator of the committee** : Dr. S. R. Sabale

The second meeting of the members of the IQAC committee was held in the IQAC Room on Tuesday, 24<sup>th</sup> November 2020 at 11.00 a.m. Following members were present in the meeting.

1	Prin. Dr. R. R. Kumbhar	Chairman	
2	Dr. S. R. Sabale	Coordinator	
3	Dr. P.P. Chikode	Co-coordinator	
4	Prin. Dr. D. G. Kanase	Advisor	
5	Dr. M. R. Akkole	Management	

6	Mr. A. S. Shriguppe	Management	
7	Mrs. V. V. Chougule	Member	
8	Mrs. S. R. Nakate	Member	
9	Mr. R. D. Shinde	Member	
10	Dr. T. G. Ghatage	Member	
11	Mr. G. H. Nikam	Member	
12	Dr. B. M. Sargar	Member	
13	Miss. V. B. Devkar	Member	
14	Shri S. D. Magdum (O.S.)	Member	
15	Dr. Atique Patel	Member	
16	Dr. Vikas Jadhav	Member	

17	Mr. Sarabjit Singh Ahuja	Member	
18	Mr. Abhijeet Bhandigare	Member	
19	Mr. Yogesh M. Kurundwade	Member	
20	Miss P. A. Umaje	Member	
21	Mr. Sandip Madake	Member	
22	Sou. Madhavi Sawant	Member	

### Agenda:

- [1] To review and confirm the minutes of the previous meeting
- [2] To review on the status of the AQAR and discussion on SSR submission.
- [3] To take a review of Research Committee
- [4] To motivate the faculties for workshop, seminars, symposia, conferences, orientation programs and FDP online mode.
- [5] To review on the webinars organized by various Departments.
- [6] To take Review on Online teaching.
- [7] To depute the faculties for exam and assessment work

- [8] To review on online examination arranged by University.
- [9] To discuss regarding printing of journals (Printing and Publishing Department)
- [10] To discuss on the installation of Sanitary pad vending machine and incineration unit.
- [11] Discussion on the issues with the permission of Chairman

**Resolutions:**

- [1] The minutes of the previous meeting were read and confirmation was given unanimously by all the members.
- [2] Dr. S. R. Sabale has given the review of the submission of AQAR for the academic year 2019-20. He also informed that the AQAR has been accepted by NAAC. Furthermore it was resolved that, the SSR should be submitted before validity.
- [3] The review of the reports of MRP sanctioned during the last academic year has been taken. It was also decided that to call proposals the present academic year.
- [4] Teaching faculties should be motivated to participate in workshop, seminars, and symposia, conferences, orientation programs and FDP by online mode.
- [5] The review has been taken on the webinars organized by online mode. It was decided to congratulate all the organizing committees for successful arrangement of 12 webinars.
- [6] The review of online teaching was taken and it was found that about 50% students were able to participate in the online lectures. It was decided to send the reports to the Joint Director, Higher Education, Kolhapur.
- [7] The faculty members were deputed for the evaluation, practical exam work of University as per the Shivaji University guidelines.

- [8] The directions were given to prepare program for internal and external exams as well as deputation of supervisors for semester exams. Dr. S. A. Manjare was appointed as COE.
- [9] It was resolved that the journals required for the all departments will be printed in the Anekant printing press of the college.
- [10] Taking into the consideration of hygiene of girl students, it was suggested to install Sanitary pad vending machine and incineration unit for the disposal of pads.






The meeting was concluded with the vote of thanks by IQAC coordinator with the permission of Chaiman.







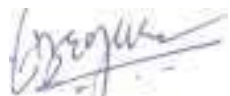
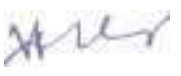





## Meeting No. 3 (Plan Modification Meeting)

- 1. Name of the committee** : Internal Quality Assurance Cell  
**2. Date** : Saturday, 20<sup>th</sup> February 2021.  
**3. Meeting No** : 03 (2020-21)  
**4. Meeting Time** : 12.30 pm  
**5. Meeting Place** : IQAC room  
**6. Chairman of the meeting** : Prin. Dr. R. R. Kumbhar  
**7. Coordinator of the committee** : Dr. S. R. Sabale

The third meeting of the members of the IQAC committee was held in the IQAC Room on Saturday, 20<sup>th</sup> February 2021 at 12.30 p.m. Following members were present in the meeting.

1	Prin. Dr. R. R. Kumbhar	Chairman	
2	Dr. S. R. Sabale	Coordinator	
3	Dr. P.P. Chikode	Co-coordinator	
4	Prin. Dr. D. G. Kanase	Advisor	
5	Dr. M. R. Akkole	Management	

6	Mr. A. S. Shriguppe	Management	
7	Mrs. V. V. Chougule	Member	
8	Mrs. S. R. Nakate	Member	
9	Mr. R. D. Shinde	Member	
10	Dr. T. G. Ghatage	Member	
11	Mr. G. H. Nikam	Member	
12	Dr. B. M. Sargar	Member	
13	Miss. V. B. Devkar	Member	
14	Shri S. D. Magdum (O.S.)	Member	
15	Dr. Atique Patel	Member	
16	Dr. Vikas Jadhav	Member	

17	Mr. Sarabjit Singh Ahuja	Member	
18	Mr. Abhijeet Bhandigare	Member	
19	Mr. Yogesh M. Kurundwade	Member	
20	Miss P. A. Umaje	Member	
21	Mr. Sandip Madake	Member	
22	Sou. Madhavi Sawant	Member	

### Agenda:

- [1] To review and confirm the minutes of the previous meeting
- [2] To take review on documentation and SSR preparation.
- [3] To take survey of campus for green audit
- [4] To discuss about the arrangement of alumni meet
- [5] To discuss about arrangement of Science Festival, Rangoli Competition and intra college poster presentation.
- [6] To organize gender promotion programs
- [7] To take a review on the NIRF and MIS reports
- [8] To discuss on planning of AAA

- [9] To take review on newly installed solar panels
- [10] Discussion on the issues with the permission of Chairman

**Resolutions:**

- [1] The minutes of the previous meeting were read and confirmation was given unanimously.
- [2] The review was taken on the preparation and documentation of SSR. It was also decided that IQAC Coordinator and all criteria conveners should arrange a presentation for teaching, nonteaching staff and management. It was also decided to submit IIQA in the first week of March 2021.
- [3] The Green Audit report was prepared and the review has been taken.
- [4] It was resolved that alumni meets should be arranged with the coordination of Alumni Association.
- [5] It was decided to celebrate Science Day with the key programs like poster presentation, Rangoli and Model Presentation along with the arrangement of Women Science Congress.
- [6] It was decided to organize the different gender promotion programs.
- [7] The review on the report of NIRF and MIS was taken.
- [8] It was decided to prepare AAA reports and organize expert committee for review.
- [9] The review was taken on the newly installed 40kw solar panels. The information has been received that the electricity bill is reduced to approximately 92%.
- [10] Discussion on the issues with the permission of Chairman

- A. It was decided to make an arrangement of the financial need to submit the IIQA and SSR.
- B. It was also resolved that all necessary requirements for NAAC will be arranged on the priority basis

There was no other issue/agenda hence the meeting was concluded with the vote of thanks by IQAC coordinator.

  
IQAC - Coordinator  
Jaysingpur College, Jaysingpur



  
Principal  
PRINCIPAL  
Jaysingpur College, Jaysingpur

Report on  
Plant Diversity of  
Jaysingpur College, Jaysingpur  
(Environmental Audit)



*Anekant Education Society's*  
**JAYSINGPUR COLLEGE JAYSINGPUR**

Report on  
Plant Diversity of  
Jaysingpur College, Jaysingpur

## Introduction

The plant diversity present in an area is important to understand the diverse ecosystem and niche. The diversity is the variety and variability of organisms on the earth. It includes variations within and between species present in particular ecosystems. The diversity in plants brings enormous benefits to mankind from direct harvesting of plants for food, medicine, fuel, construction materials and other uses to aesthetic, cultural, recreational and research values.

The “flora” of any given region is usually explained in biological terms to include the genus and species of plant life, their preferred growing habits and their connection to one another in the environment as well.

The documentation of local flora means to make an organized collection or record by describing the morphology and number of a particular plant species at a given area and a particular time. The floral study is a study we use to describe the variety of plant species in a specific area of a country.

The present study deals with the documentation of the floral diversity within the College campus. The Jaysingpur College, Jaysingpur is situated in the heart of Jaysingpur city and has quite an impressive amount of plant diversity, including both monocotyledons and dicotyledons. The various trees and bushes associated with the field serves as a roosting place of the different species of birds at different times of the day.





## **Geographic Location and Climatic Conditions**

Jaysingpur College, Jaysingpur was established by Anekant Society way back in 1964 with the inspiration from the blessings of Saint Late Samantbhadra Maharaj.

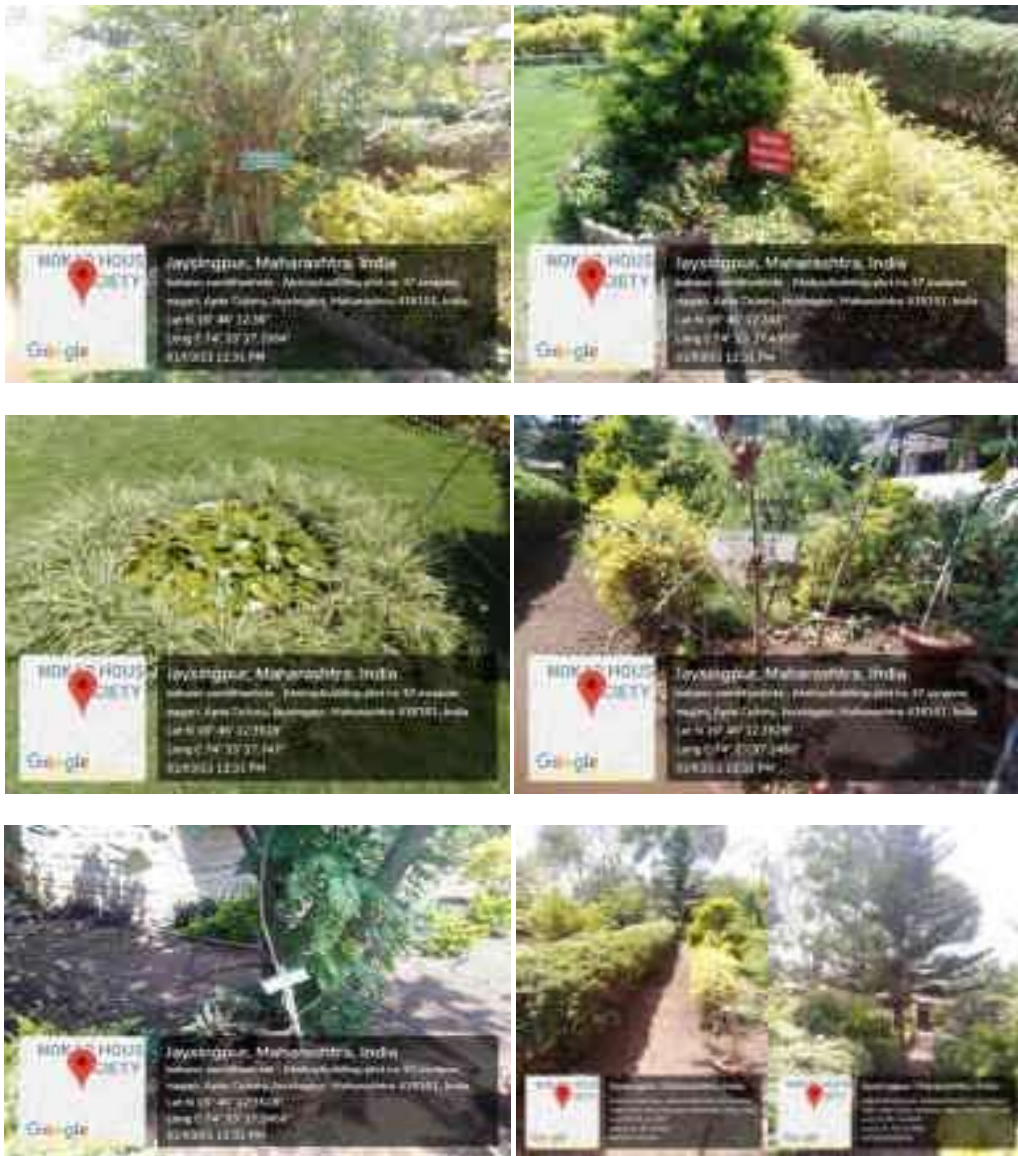
The college is affiliated to the Shivaji University, Kolhapur. The college is government funded as per provisions of the rules of grant-in-aid scheme as operative in Government affiliated colleges. It is creditable for the college to start some, self-financing courses with a view to augment financial sources and also to provide job-oriented education to the students. It got recognition from the University Grants Commission under 2(f) in March 1982 and 12 B in June 2007. Its latitudinal extent varies from 16.770794 N, 74.556805 E

Also, college campus include Botanic garden, biodiversity garden, Butterfly garden, and medicinal plant Garden. The botanical garden is situated near the office building and includes a diverse flora.

The Department of Botany has taken initiative in assessment of plant diversity in campus of Jaysingpur College, Jaysingpur. In initial phase, we invited an expert taxonomist, Dr. M. M. Aitawade, Assistant professor, Sharadchandra Mahavidyalaya, Lonand, Dist. Satara for identification and nomenclature of plants in campus. The program was started at 9:30 AM with introduction of guest. The 17 students (15 girls and two boys) of T. Y. B.Sc. botany were actively participated in biodiversity

assessment program. During this program a total 1591 individual plants were identified and identification labeled were tagged on plant individuals. During this assessment we found that a campus has rich plant diversity which includes 204 genera and 264 species of angiosperms plants.

### Botanical Garden









The biodiversity centre and butterfly garden is situated at the left side of entrance gated of college. The butterfly garden is a resting place for various butterfly species.



## BIODIVERSITY GARDEN



**BUTTERFLY GARDEN**







Photo: Number tagging to individual tree species



Photo: Identification of plant species (Expert: Dr. M. M. Aitawade)





*Terminalia arjuna* (Roxb. ex DC.) Wight & Am.



*Saraca asoka*



*Terminalia bellirica* (Gaertn.) Roxb.



*Aegle marmelos* (L.) Corrêa



*Phyllanthus acidus* (L.)



*Pongamia pinnata* (L.) Pierre



*Syzygium cumini* (L.) Skeels



*Pterocarpus marsupium* Roxb



*Azadirachta indica* A. Juss.



*Cassia fistula* L.



*Santalum album* L.



*Butea monosperma* (Lam.) Kuntze



*Nerium indicum* Mill.



*Nerium oleander* L.



*Nerium indicum* var. *alchayoum* Hook.



*Nerium indicum* L.



*Nerium oleander* L.



*Nerium indicum* (L.) Karst.



*Nerium indicum* Hook.



*Nerium oleander* L.



*Nerium oleander* L.





*Terminalia arjuna* (Roxb. ex DC.) Wight & Arn.



*Saraca asoka*



*Terminalia bellirica* (Gaertn.) Roxb.



*Aegle marmelos* (L.) Correa



*Phyllanthus acidus* (L.)



*Pongamia pinnata* (L.) Pierre



*Syzygium cumini* (L.) Skeels



*Pterocarpus marsupium* Roxb



*Azadirachta indica* A. Juss.



*Cassia fistula* L.



*Santalum album* L.



*Puffia monosperma* (Lam.) Kuntze

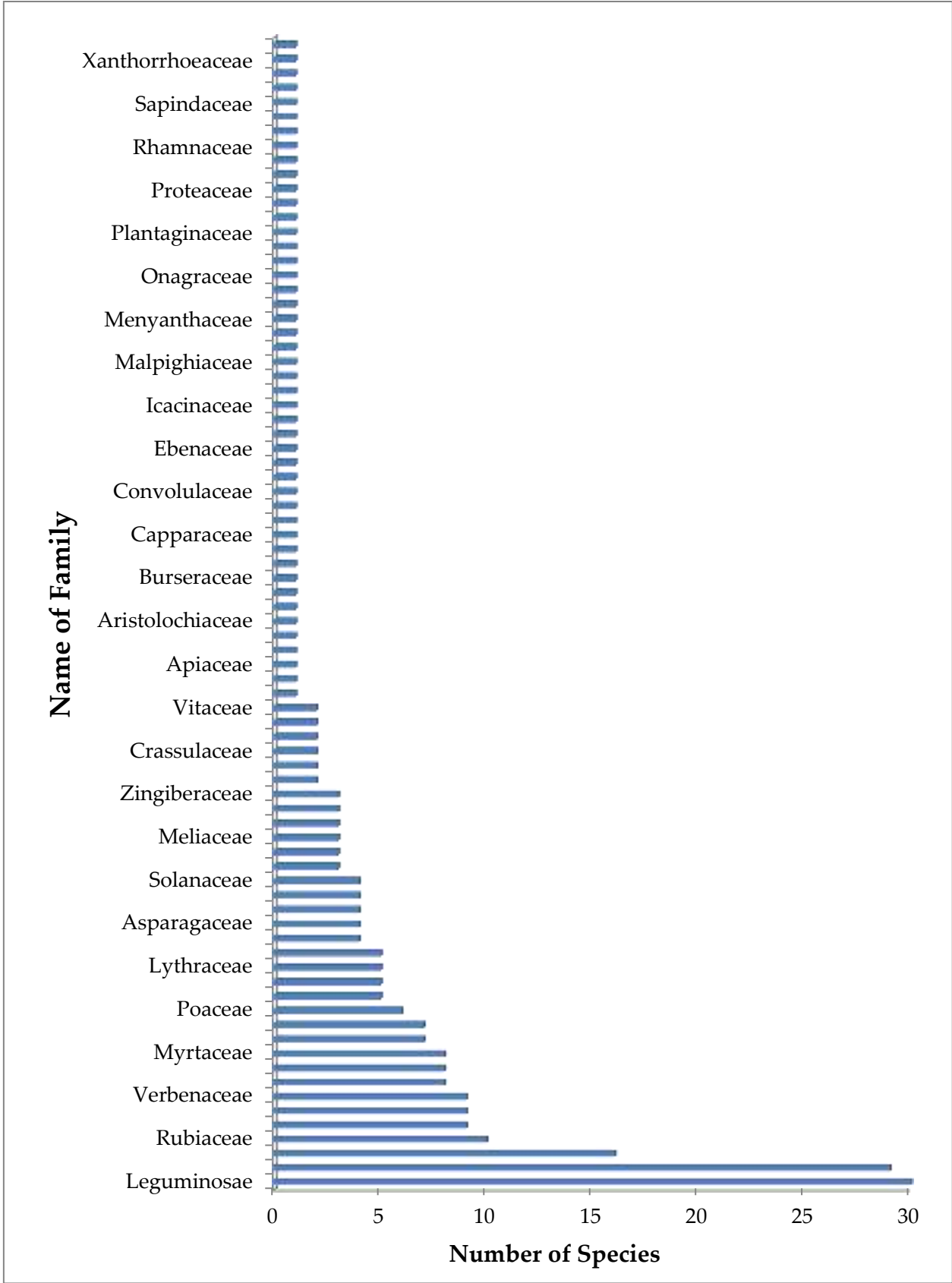
**The List of flowering plant families along with number of genera species  
and individuals**

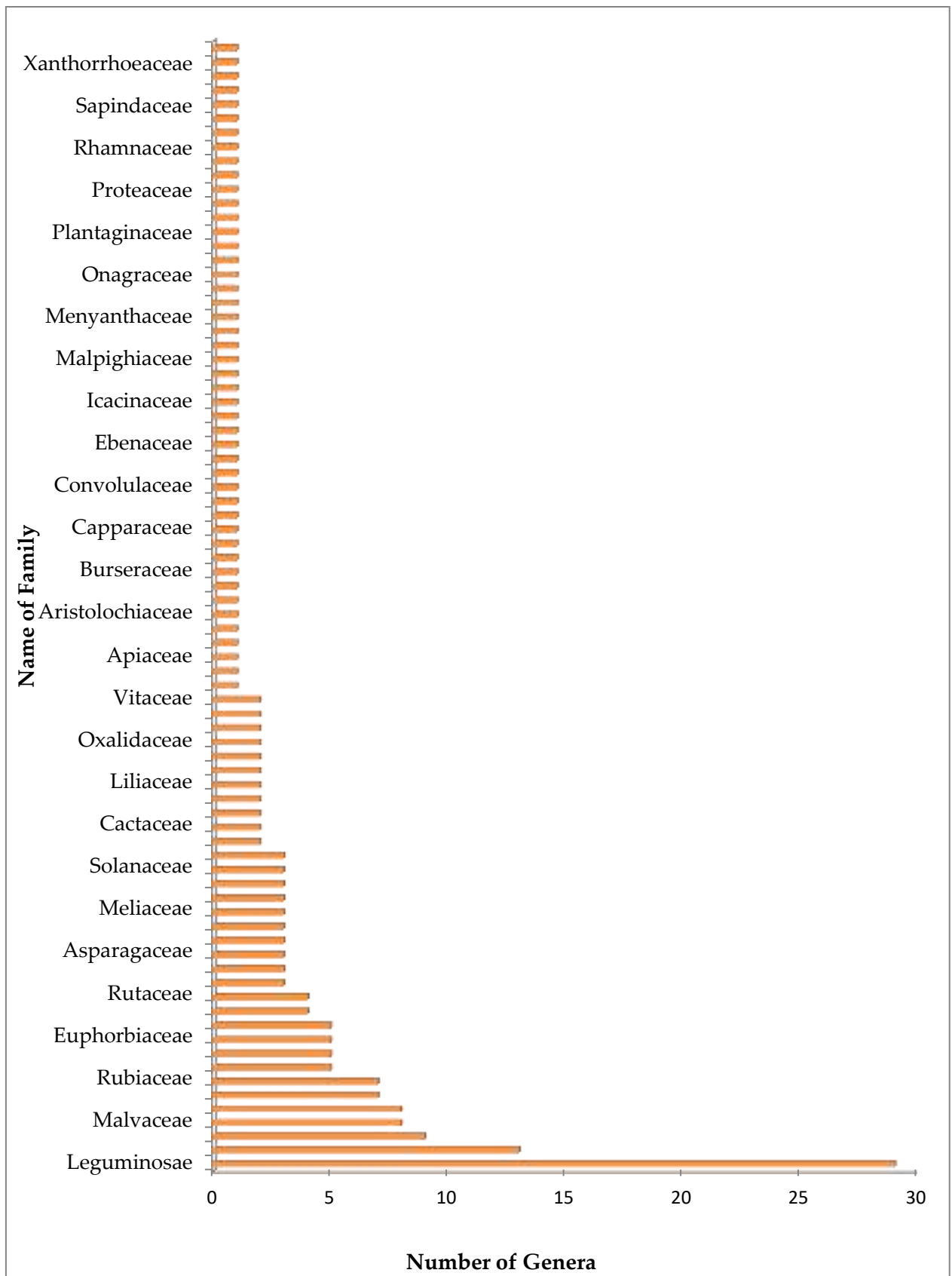
<b>Sr. No.</b>	<b>Family</b>	<b>Number of Genera</b>	<b>Number of Species</b>	<b>Number of Individuals*</b>
1	Acanthaceae	5	7	15
2	Amaranthaceae	1	1	1
3	Amaryllidaceae	1	1	4
4	Anacardiaceae	3	29	30
5	Annonaceae	3	4	30
6	Apiaceae	1	1	1
7	Apocynaceae	13	16	73
8	Araceae	1	1	1
9	Araucariaceae	1	1	2
10	Arecaceae	5	5	24
11	Aristolochiaceae	1	1	10
12	Asparagaceae	3	4	8
13	Asteraceae	3	3	1
14	Balsaminaceae	1	1	2
15	Bignoniaceae	9	9	21
16	Bixaceae	1	1	1
17	Boraginaceae	2	2	2
18	Burseraceae	1	1	1
19	Cactaceae	2	2	18
20	Calophyllaceae	1	1	4
21	Cannaceae	1	1	2
22	Capparaceae	1	1	4
23	Caricaceae	1	1	2
24	Clusaceae	1	1	2
25	Combretaceae	2	7	30
26	Convolvulaceae	1	1	1
27	Costaceae	1	1	2
28	Crassulaceae	2	2	9
29	Cycadaceae	1	1	2
30	Ebenaceae	1	1	1
31	Eleocarpaceae	1	1	2

32	Euphorbiaceae	5	5	17
33	Euphorbiaceae	1	1	14
34	Icacinaceae	1	1	1
35	Lamiaceae	7	8	36
36	Lauraceae	1	1	2
37	Leguminosae	29	30	279
38	Liliaceae	2	3	6
39	Lythraceae	3	5	8
40	Magnoliaceae	1	1	5
41	Malpighiaceae	1	1	1
42	Malvaceae	8	8	14
43	Melastomaceae	1	1	1
44	Meliaceae	3	3	85
45	Menispermaceae	1	1	5
46	Menyanthaceae	1	1	5
47	Moraceae	4	9	278
48	Muntingiaceae	1	1	1
49	Myrristicaceae	1	1	1
50	Myrtaceae	5	8	25
51	Nyctaginaceae	2	3	16
52	Oleaceae	2	4	7
53	Onagraceae	1	1	2
54	Oxalidaceae	2	2	1
55	Passifloraceae	1	1	2
56	Phyllanthaceae	2	3	7
57	Piperaceae	1	1	2
58	Plantaginaceae	1	1	2
59	Plumbaginaceae	1	1	49
60	Poaceae	3	6	23
61	Portulacaceae	1	1	2
62	Proteaceae	1	1	34
63	Putranjivaceae	1	1	1
64	Ranunculaceae	1	1	1
65	Rhamnaceae	1	1	3
66	Rosaceae	1	1	24
67	Rubiaceae	7	10	61
68	Rutaceae	4	5	18

69	Santalaceae	1	1	23
70	Sapindaceae	1	1	2
71	Sapotaceae	3	4	15
72	Simaroubaceae	2	2	6
73	Solanaceae	3	4	8
74	Sterculaceae	1	1	1
75	Sterelitzziaceae	1	1	1
76	Verbenaceae	8	9	155
77	Vitaceae	2	2	7
78	Xanthorrhoeaceae	1	1	10
79	Zingiberaceae	3	3	8
80	Zygophyllaceae	1	1	10
Total		<b>207</b>	<b>272</b>	<b>1591*</b>

Note: “\*” indicates the numbers of species are more and unable to count







Sr. No.	Family	Botanical Name	No. of Individuals
1	Acanthaceae	<i>Ruellia</i> sps.	2
2		<i>Justicia adhatoda</i> L.	3
3		<i>Barleria cristata</i> L.	2
4		<i>Barleria involucrata</i> var. <i>elata</i> (Dalzell) C.B.Clarke	3
5		<i>Barleria prionitis</i> L.	2
6		<i>Crossandra infundibuliformis</i> (L.) Nees	2
7		<i>Andrographis paniculata</i> (Burm. A) Nees	1
8	Amaranthaceae	<i>Achyranthus aspara</i> L.	1
9	Amaryllidaceae	<i>Crinum</i> species	4
10	Anacardiaceae	<i>Anacardium occidentale</i> L.	1
11		<i>Mangifera indica</i> L.	2
12		<i>Mangifera indica</i> (Alphonso)	1
13		<i>Mangifera indica</i> (Amrapali)	1
14		<i>Mangifera indica</i> (Chandrama)	1
15		<i>Mangifera indica</i> (Dsheri)	1
16		<i>Mangifera indica</i> (Dudhpeda)	1
17		<i>Mangifera indica</i> (Fernandin)	1
18		<i>Mangifera indica</i> (Goa mankur)	1
19		<i>Mangifera indica</i> (Karel)	1
20		<i>Mangifera indica</i> (Keitt)	1
21		<i>Mangifera indica</i> (Kensington)	1
22		<i>Mangifera indica</i> (Kent)	1
23		<i>Mangifera indica</i> (Kesar)	1
24		<i>Mangifera indica</i> (Kingfon)	1
25		<i>Mangifera indica</i> (Kokanruchi)	1
26		<i>Mangifera indica</i> (Lily)	1
27		<i>Mangifera indica</i> (Mallika)	1
28		<i>Mangifera indica</i> (Nilam)	1
29	<i>Mangifera indica</i> (Palmar)	1	

30		<i>Mangifera indica</i> (Payri)	1
31		<i>Mangifera indica</i> (Ratna)	1
32		<i>Mangifera indica</i> (Shehar)	1
33		<i>Mangifera indica</i> (Sindhu)	1
34		<i>Mangifera indica</i> (Suvernarekha)	1
35		<i>Mangifera indica</i> (Tomi Atkins)	1
36		<i>Mangifera indica</i> (Totapuri)	1
37		<i>Mangifera indica</i> (Vanraj)	1
38		<i>Semecarpus anacardium</i> L. f.	1
39	Annonaceae	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	15
40		<i>Artabotrys hexapetalus</i> (L. f.) Bhandari	5
41		<i>Annona reticulata</i> L.	2
42		<i>Annona squamosa</i> L.	8
43	Apiaceae	<i>Centella asiatica</i> (L.) Urb	1
44	Apocynaceae	<i>Alstonia scholaris</i> (L.) R.Br.	29
45		<i>Nerium oleander</i> L. (Yellow)	5
46		<i>Nerium oleander</i> L. (Pink)	4
47		<i>Plumeria alba</i> L. (Yellow)	2
48		<i>Catharanthus roseus</i> (L.) G. Don	10
49		<i>Nerium oleander</i> L. (White)	5
50		<i>Calotropis gigantea</i> (L.) Dryand.	2
51		<i>Plumeria alba</i> L. (White)	2
52		<i>Calotropis procera</i> (Ait.) R. Br.	1
53		<i>Carissa carandus</i> L.	2
54		<i>Gymnema sylvestris</i> R. Br.	1
55		<i>Hemidesmus indicus</i> (L.) Schult	3
56		<i>Holarrhena pubescens</i> Wall. Ex G. Don	1
57		<i>Rouvolfia serpentina</i> (L.) Kurz.	4
58		<i>Tabernaemontana alternifolia</i> (Roxb.) Nicols & Suresh	1
59		<i>Tylophora indica</i> (Burm.f.) Merr.	1

60	Araceae	<i>Dieffenbachia seguine</i> (Jacq.) Schott	1
61	Araucariaceae	<i>Araucaria columnaris</i> (G.Forst.) Hook.	2
62	Arecaceae	<i>Archontophoenix alexandrae</i> (F.Muell.) H. Wendl. & Drude	1
63		<i>Areacatechu</i> L.	4
64		<i>Cocos nucifera</i> L.	2
65		<i>Acorus calamus</i> L.	2
66		<i>Dyopsis lutescens</i> Beentje & deansf	15
67		Aristolochiaceae	<i>Aristolochia ringens</i> Vahl
68	Asparagaceae	<i>Polianthes tuberosa</i> L.	3
69		<i>Chlophytum comosom</i> (Thunb.) Jacq.	2
70		<i>Chlophytum laxum</i> R.Br.	2
71		<i>Dracaena deremensis</i> Engl.	1
72	Asteraceae	<i>Stevia reboudiana</i>	1
73		<i>Tagetes erecta</i> L.	***
74		<i>Tridax procumbens</i> L.	***
75	Balsaminaceae	<i>Impatiens balsamina</i> L.	2
76	Bignoniaceae	<i>Tabebuia aurea</i> (Silva Manso) Benth. & Hook.f. ex S. Moore	2
77		<i>Tecoma stans</i> (L.) Juss. ex Kunth	2
78		<i>Millingtonia hortensis</i> L. f.	5
79		<i>Spathodea campanulata</i> P. Beauv.	4
80		<i>Jacranda acutifolia</i> Humb.	2
81		<i>Kigelia africana</i> (Lam) Benth.	2
82		<i>Oroxylum indicum</i> (L.) Kurz.	1
83		<i>Steropermum chelonoides</i> DC.	1
84		<i>Tabobia rosea</i> DC.	2
85		Bixaceae	<i>Bixa orellana</i> L.
86	Boraginaceae	<i>Heliotropium indicum</i> L.	1
87		<i>Cordia dichotoma</i> G. Froster	1

88	Burseraceae	<i>Commiphora wightii</i> (Arn.) Bhandari	1
89	Cactaceae	<i>Selenicereus undatus</i>	16
90		<i>Epiphyllum oxypetalum</i> (DC.) Haw.	2
91	Callophylaceae	<i>Mesua ferrea</i> L.	4
92	Cannaceae	<i>Canna indica</i> L.	2
93	Capparaceae	<i>Caparis</i> species	4
94	Caricaceae	<i>Carica papaya</i> L.	2
95	Clusaceae	<i>Garcinia indica</i> (Thouars) Choisy	2
96	Combretaceae	<i>Terminalia catappa</i> L.	12
97		<i>Terminaliabellicaria</i> (Gaertn.) Roxb.	3
98		<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Am.	10
99		<i>Combretum indicum</i> (L.) DeFilipps	2
100		<i>Terminalia chebula</i> Retz.	1
101		<i>Terminalia eliptica</i> Willd.	1
102		<i>Terminalia paniculata</i> Roth	1
103	Convolvulaceae	<i>Ipomea carnea</i> L.	1
104	Costaceae	<i>Costus pictus</i>	2
105	Crassulaceae	<i>Bryophyllum pinnatum</i> (Lam.) Oken	5
106		<i>Kalanchoe laciniata</i> (L.) DC	4
107	Cycadaceae	<i>Cycas revoluta</i> Thunb	2
108	Ebenaceae	<i>Dispyrus melanoxyllum</i> Roxb.	1
109	Eleocarpaceae	<i>Elaeocarpus angustifolius</i> Blume	2
110	Euphorbiaceae	<i>Jatropha gossypifolia</i> L.	17
111	Euphorbiaceae	<i>Ricinus communis</i> L.	5
112		<i>Jatropha curcas</i> L.	2
113		<i>Euphorbia geniculata</i> Orteg	***
114		<i>Mallotus philippensis</i> (Lam.) Mull Arg	5
115		<i>Phyllanthus officinalis</i> (L.)	2
116	Icacinaceae	<i>Nothopodytis nimoniana</i> (Grahm)	1
117	Lamiaceae	<i>Tectona grandis</i> L. f.	7

118		<i>Gmelina arborea</i> Roxb.	1
119		<i>Clerodendrum thomsoniae</i> Balf. f.	3
120		<i>Leucas aspara</i> (Willd.) Link	1
121		<i>Mentha arvensis</i> (L.)	2
122		<i>Ocimum bacilum</i> L.	1
123		<i>Ocimum sanctum</i> Linn	15
124		<i>Oscimum americanum</i> L.	6
125	Lauraceae	<i>Cinnamomum tamala</i> (Buch.-Ham.) T.Nees & Eberm.	2
126	Leguminosae	<i>Peltophorum pterocarpum</i> (DC.) K. Heyne	41
127		<i>Tamarindus indica</i> L.	14
128		<i>Gliricidia sepium</i> (Jacq.) Walp.	10
129		<i>Albizia saman</i> (Jacq.) Merr. Syn: <i>Samaneasaman</i> (Jacq.) Merr.	26
130		<i>Parkia biglandulosa</i> Wight & Arn.	5
131		<i>Pongamia pinnata</i> (L.) Pierre	29
132		<i>Dalbergia sissoo</i> DC.	15
133		<i>Sesbania sesban</i> (L.) Merr.	10
134		<i>Delonix regia</i> (Hook.) Raf.	28
135		<i>Bauhinia variegata</i> L.	8
136		<i>Dichrostachys cinerea</i> Brenen & Brummit	3
137		<i>Leucaena leucocephala</i> (Lam.) de Wit	13
138		<i>Mitragyna parvifolia</i> (Roxb.) Korth.	8
139		<i>Senna siamea</i> (Lam.) H.S. Irwin & Barneby	5
140		<i>Pithecellobium dulce</i> (Roxb.) Benth.	2
141		<i>Cassia fistula</i> L.	9
142		<i>Murraya paniculata</i> (L.) Jack	1
143		<i>Prosopiscineraria</i> (L.) Druce	4
144		<i>Caesalpinia pulcherrima</i> (L.) Sw.	22
145	<i>Senna tora</i> (L.) Roxb.	6	
146	<i>Abrus precatoris</i> L.	1	

147		<i>Acacia auriculoformis</i> Cunn ex. Benth	1
148		<i>Acacia concinna</i> (Willd.) DC	2
149		<i>Bauhinia recemosa</i> Lam.	1
150		<i>Butea monosperma</i> (Lam.) Kuntze	2
151		<i>Caesalpinia bonduc</i> (L.) Roxb.	1
152		<i>Cassia surattensis</i> Burm. F.	1
153		<i>Leucaena latisiliqua</i> (L.) Gillis	5
154		<i>Pterocarpus marsupium</i> Roxb	4
155		<i>Saraca asoka</i> (Roxb.) Willd	2
156	Liliaceae	<i>Allium sativum</i> L.	1
157		<i>Asparagus racemosus</i> Willd.	5
158	Lythraceae	<i>Punica granatum</i> L.	3
159		<i>Cuphea ignea</i> A.DC.	1
160		<i>Cuphea ignea</i> A.DC.	1
161		<i>Lagerstroemia reginae</i> Roxb.	1
162		<i>Lagerstroemia speciosa</i> (L.) Pers.	2
163	Magnoliaceae	<i>Magnolia champaca</i> (L.) Baill. ex Pierre	5
164	Malpighiaceae	<i>Hiptage benghalensis</i> (L) Kurz.	1
165	Malvaceae	<i>Ceiba pentandra</i> (L.) Gaertn.	1
166		<i>Sterculia foetida</i> L.	5
167		<i>Bombax ceiba</i> L.	1
168		<i>Adansonia digitata</i> L.	1
169		<i>Hibiscus rosa-sinensis</i> L.	2
170		<i>Abelmoschus moschatus</i> Medik.	1
171		<i>Helicterus isora</i> L.	1
172		<i>Thespesia populnea</i> Correa.	2
173	Melastomaceae	<i>Memecylon umbellatum</i> Burm f	1
174	Meliaceae	<i>Azadirachta indica</i> A.Juss.	73
175		<i>Swietenia mahagoni</i> (L.) Jacq.	10
176		<i>Khaya senegalensis</i> (Desv.) A.Juss.	2

177	Menispermaceae	<i>Tinospora sinensis</i> (Lour.) Merr.	5
178	Menyanthaceae	<i>Nymphoides indicus</i> (L.) Kuntze	5
179	Moraceae	<i>Ficus amplissima</i> Sm.	21
180		<i>Ficus hispida</i> L. f.	10
181		<i>Ficus benghalensis</i> L.	25
182		<i>Ficus religiosa</i> L.	16
183		<i>Ficus carica</i> L.	2
184		<i>Artocarpus hirsutus</i> Lam.	1
185		<i>Artocarpus heterophyllus</i> Lam.	1
186		<i>Morus alba</i> L.	200
187		<i>Artocarpus altilis</i> Fosberg.	2
188	Muntingiaceae	<i>Muntingia calabura</i> L.	1
189	Myrristicaceae	<i>Myristica fragrans</i>	1
190	Myrtaceae	<i>Eucalyptus globulus</i> Labill.	5
191		<i>Syzygium cumini</i> (L.) Skeels	8
192		<i>Callistemon brachyandrus</i> Lindl.	5
193		<i>Psidium guajava</i> L.	3
194		<i>Pimenta dioca</i> Merrill	1
195		<i>Syzygium aromaticum</i> Merrill & perry	1
196		<i>Syzigiums amarangense</i> Merrill & perry	1
197		<i>Syzygium aromaticum</i> (L.) Merrill & Perry	1
198	Nyctaginaceae	<i>Bougainvillea spectabilis</i> Willd.	5
199		<i>Bougainvillea spectabilis</i> Willd.	10
200		<i>Boerhavia repens</i> var. <i>diffusa</i> (L.) Hook f.	1
201	Oleaceae	<i>Jasminum grandiflorum</i> L.	1
202		<i>Jasminum sambac</i> (L.) Aiton	4
203		<i>Jasminum auriculatum</i> Vahl	1
204		<i>Nyctanthus arbor-tritis</i>	1
205	Onagraceae	<i>Ludwigia sedioides</i> (Humb. & Bonpl.) H. Hara	2
206	Oxalidaceae	<i>Averrhoa carambola</i> L.	1

207		<i>Oxalis corniculata</i> L.	***
208	Passifloraceae	<i>Passiflora edulis</i> Sims	2
209	Phyllanthaceae	<i>Phyllanthus emblica</i> L.	5
210		<i>Phyllanthus acidus</i> (L.)	1
211		<i>Sauropus adndrogynus</i> (L.) Merrill	1
212	Piperaceae	<i>Piper betle</i> L.	2
213	Plantaginaceae	<i>Russelia equisetiformis</i> Schltldl. & Cham.	2
214	Plumbaginaceae	<i>Plumbago zeylanica</i> L.	50
215	Poaceae	<i>Dendrocalamus strictus</i> (Roxb.) Nees	5
216		<i>Crysopogon zizinoides</i> (L.) Roberty	1
217		<i>Cymbopogon aromaticum</i> Watson	2
218		<i>Cymbopogon citrates</i> (DC) Stapf.	3
219		<i>Dendrocalamus asper</i> Baker ex. Heyne	2
220		<i>Dendrocalamus stockssi</i> K. M. Kumar & Unnikr.	10
221		Portulacaceae	<i>Portulaca oleracea</i> L.
222	Proteaceae	<i>Grevillea robusta</i> A. Cunn. ex R.Br.	34
223	Putranjivaceae	<i>Putranjiva roxburghii</i> Wall.	1
224	Ranunculaceae	<i>Naravelia zeylanica</i> (L.) DC.	1
225	Rhamnaceae	<i>Ziziphus mauritiana</i> Lam.	3
226	Rosaceae	<i>Rosa indica</i> L.	4
227	Rubiaceae	<i>Ixora</i> Sps.	11
228		<i>Coffea arabica</i> L.	2
229		<i>Hamelia patens</i> Jacq.	2
230		<i>Neolamarckia cadamba</i> (Roxb.) Bosser	3
231		<i>Ixora</i> Sps. (White)	1
232		<i>Ixora</i> Sps. (Singapur)	15
233		<i>Pentas lanceolata</i> (Forssk.) Deflers (Pink)	15
234		<i>Pentas lanceolata</i> (Forssk.) Deflers (Red)	10
235		<i>Morinda citrifolia</i> L.	1
236		<i>Spermadictyonsu aveolens</i> Roxb	1



237	Rutaceae	<i>Murraya koenigii</i> (L.) Spreng.	4
238		<i>Citrus maxima</i> (Burm.) Men.	2
239		<i>Limonia acidissima</i> Groff	3
240		<i>Citrus limon</i> (L.) Osbeck	6
241		<i>Aegle marmelos</i> (L.) Corrêa	3
242	Santalaceae	<i>Santalum album</i> L.	23
243	Sapindaceae	<i>Sapindus trifoliatus</i> L.	2
244	Sapotaceae	<i>Mimusops elengi</i> Bojer	9
245		<i>Madhuca indica</i> f. Gmel.	1
246		<i>Manilkara hexandra</i> (Roxb.) Dubard	3
247		<i>Manilkara zapota</i> (L.) P. Royan	2
248	Simaroubaceae	<i>Alianthus excels</i> Roxb.	4
249		<i>Simarouba glauca</i> DC.	2
250	Solanaceae	<i>Cestrum diurnum</i> L.	2
251		<i>Solanum virginianum</i> L.	2
252		<i>Cestrum nocturnum</i> L.	1
253		<i>Withania somnifera</i>	3
254	Sterculaceae	<i>Gauzuma ulmifolia</i> Lam.	1
255	Sterelitzziaceae	<i>Ravenala madagascariensis</i> Sonn.	1
256	Verbenaceae	<i>Duranta erecta</i> L.	***
257		<i>Premna integrifolia</i> Willd.	3
258		<i>Lantana camara</i> L.	115
259		<i>Stachytarpheta cayennensis</i> (Rich.) Vahl (Purple)	10
260		<i>Verbena hybrida</i> Groenl. & Rumphel	10
261		<i>Stachytarpheta cayennensis</i> (Rich.) Vahl (Red)	15
262		<i>Lawsonia alba</i> Lam.	***
263		<i>Rotha serrata</i> (L.) Steane & Mabb.	1
264		<i>Vitex nigundo</i> L.	1
265	Vitaceae	<i>Cissus quadrangifolia</i> L.	2
266		<i>Vitis vinifera</i> L.	5

267	Xanthorrhoeaceae	<i>Aloe vera</i> (L.) Burm.f.	10
268	Zingiberaceae	<i>Hedychium coronarium</i> J.Koenig	5
269		<i>Curcuma longa</i> L.	2
270		<i>Elettaria cardamomum</i> (L.) Maton.	1
271	Zygophyllaceae	<i>Tribulus terrestris</i> L.	***
			<b>1591</b>

**Note:\*\*\*** The numbers of species are more and unable to count

## Summary and Findings

- The Jaysingpur College, Jaysingpur has unique diversity for economically important plant species.
- The 'Nakshatra' Botanical garden, medicinal Plant garden, Biodiversity garden and Butterfly garden is established and well maintained by college.
- The botanical garden consist of medicinally important plant species and flowering plants
- The biodiversity garden has diverse plant species and different varieties of horticultural crop plants
- The college campus consists of 80 angiosperm families.
- The present study revealed that, the 80 plant families include about 207 diverse genera and total 272 species.
- During this study a total of 1591 were documented.

# Recommendations

Following are some of the key recommendation for improving campus environment.

- The Vision, Mission and Goals of the college must include the conservation and maintenance of biodiversity.
- The college must take care of this unique plant diversity by proper methods.
- The plant species must be protected from predators.
- The college should focus on plantation of more native plant species
- The more efforts should be taken for plantation and conservation of rare, endemic and endangered plant species.
- The college should develop internal procedures to ensure its compliances with environmental issues.

**Committee for  
Assessment of Plant Diversity of  
Jaysingpur College, Jaysingpur  
(Environmental Audit)**

Sr. No	Name	Designation
1	Dr. R. R. Kumbhar	Principal
2	Dr. Sandip. R. Sabale	IQAC Coordinator
3	Dr. Mrs. Manisha V. Kale	Head, Department of Botany
4	Dr. Makarand M. Aitawade	Expert Taxonomist
5	Dr. Suraj D. Umdale	Member
6	Dr. Sachinkumar R. Patil	Member



Dr. Makarand M. Aitawade  
Expert Taxonomist



Dr. Suraj D. Umdale  
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Dr. Sachinkumar R. Patil  
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Dr. Mrs. Manisha V. Kale  
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Dr. Sandip. R. Sabale  
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Dr. R. R. Kumbhar  
PRINCIPAL  
Jaysingpur College, Jaysingpur



Anekant Education Society's

# Jaysingpur College, Jaysingpur

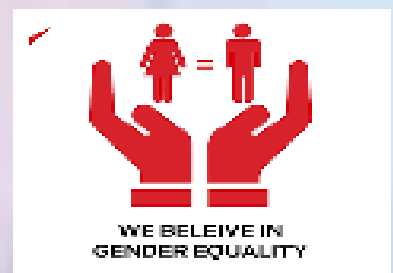
## Gender Audit Report 2020-21



**Prepared By**

**Internal Quality Assurance Cell**

Jaysingpur College, Jaysingpur



## **Preface:**

Gender equality, also known as sexual equality or equality of the sexes, is the state of equal ease of access to resources and opportunities regardless of gender, including economic participation and decision-making; and the state of valuing different behaviours, aspirations and needs equally, regardless of gender.

Gender equality is the goal, while gender neutrality and gender equity are practices and ways of thinking that help in achieving the goal. Gender parity, which is used to measure gender balance in a given situation, can aid in achieving gender equality but is not the goal in and of it. Gender equality is more than equal representation; it is strongly tied to women's rights, and often requires policy changes. As of 2017, the global movement for gender equality has not incorporated the proposition of genders besides women and men, or gender identities outside of the gender binary.

UNICEF says gender equality "means that women and men, and girls and boys, enjoy the same rights, resources, opportunities and protections. It does not require that girls and boys, or women and men, be the same, or that they be treated exactly alike.

On a global scale, achieving gender equality also requires eliminating harmful practices against women and girls, including sex trafficking, femicide, wartime sexual violence, gender wage gap, and other oppression tactics.

## Gender Policy:

1. The College gives free access to education and all allied facilities devoid of any gender based discrimination.
2. The institute always strives to provide equal opportunities for all genders
3. The institution always focuses to grant freedom for all genders to express their fair opinions freely
4. Institute strictly runs to an accessible, active, unbiased and confidential Grievances Redressal Cell
5. The institute tends to arrange effective measures for the safety and security of all genders.



## Objectives of Gender Audit

1. To identify the areas where the gender inequality exists
2. To identify the probable reason for the gender inequality
3. To maintain good gender balance in all fields of College
4. To advise ways to bridge the gender gap
5. To promote gender equality in all aspects of college.
6. To implement prevention of sexual harassment effectively.



## **Committee for the Gender Audit**

<b>Sr. No.</b>	<b>Name of Member</b>	<b>Designation</b>	<b>Role in the Committee</b>
<b>01</b>	<b>Dr. V. B. Devkar</b>	<b>Assistant Professor</b>	<b>Chairman</b>
<b>02</b>	<b>Dr. S. R. Nakate</b>	<b>Assistant Professor</b>	<b>Member</b>
<b>03</b>	<b>Dr. R. S. Dhabbe</b>	<b>Assistant Professor</b>	<b>Member</b>
<b>04</b>	<b>Dr. S. D. Umdale</b>	<b>Assistant Professor</b>	<b>Member</b>

## **Introduction:**

The panel constituting male as well as female experts was formed to make a gender audit. The expert panel reviewed college environment so as to reveal the various aspects of the gender equality. The audit also focused to identify the gender inequality, if any. The panel was prominently determined to reveal the access to a full range of opportunities to achieve the social, psychological and physical benefits that come from participating and leading in sports and physical activity. It does not necessarily mean making the same programs and facilities available to both males and females. Providing full range of activities and programs to the girls and women as per their needs, experience and interests is a real mean of the Gender Equality. Henceforth, programs and activities provided to girls are sometime same as provided to boys or sometime different.

## **Analysis**

The college always focuses on the all round development of student irrespective of gender. Girls are provided special attention and all required facilities on the basis of gender equality. The good gender equity is the characteristic of quality institute. Our college strives to enhance the equity and ensure the equality of women in all activities through well planned policy. The male female ratio in the college is about 60:40; the percentage of girls in arts faculty is due to Girl College for arts in vicinity. Due to continuous efforts the male female ratio in science wing is increased. The equity of girl students is enhanced through special counselling, sensitization programs, freeships and providing partial economic support through 'Earn and Learn scheme'. The NSS troop had 115 boys and 85 girls, now the number of girl students has

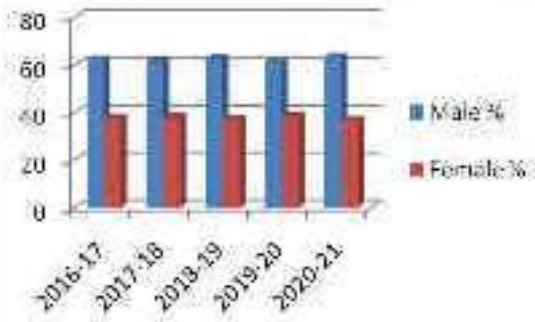
increased from 85 to 115. In NCC 35 % of girls were admitted. To improve this number the college tried for sanction of separate girls unit and we got it from 2020-21. This will enhance the equity of girl students in NCC. The participation of girls is encouraged through motivational talks and continuous inspiration by the teachers. Girls are motivated to participate in cultural, sports, quiz and wall posters. To enhance the employability of the girls, number of skill based courses such as, Tissue culture, Tally, GST consultant; beauty parlour, personality development etc. have been started.

Institute forms various committees to ensure the equality, enhance the equity, inculcate the confidence, self respect and courage in the girls. The ice breaking is important hence we organize the cultural programs like Zimmafugadi, hadga, folklores and group discussions. The Women's Internal Grievance Redressal Committee, Anti sexual harassment cell, Sachetana mandal are working for women equality, promotion of gender and protection of women rights. For psychological and economical problems a counseling cell organizes periodic sessions. The girls are encouraged to participate in traditional day, cultural fest, food festivals, exhibitions etc. International Women's Day is celebrated by organizing lectures on women rights and laws. Balika din, Savitribai Fule, Shahu Maharaj birth anniversary was celebrated through the programs like street plays, songs and lecture about the laws regarding domestic violence. The college is keen about the promotion of gender. A special program, 'YuvatinoNirbhay Bana' is organized each year. Gender promotion lectures, constitutional and legal rights of women, self defense training, confidence building, personality development, felicitation of women achievers and couples with only girl children are salient features of the program. The college has started special free training of swimming for girls.

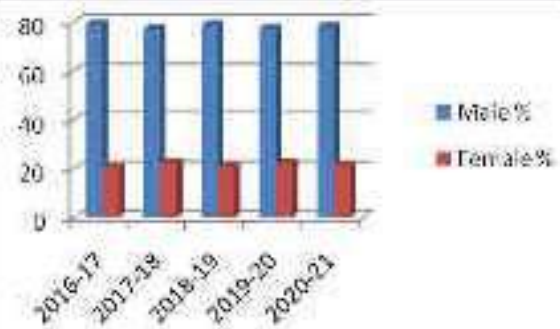
Special concession is provided in state of art gym of the college. Yoga, Zumbba and badminton training is available in indoor stadium.

For the safety and security of girls following facilities are available in the campus. The college has separate girls hostel with watchmen, pure drinking water, CCTV, ladies room, health center, sanitary pad dispensing and disposal machines. A Sufficient number of washrooms and toilet blocks are constructed. The grievances are listened by redressal cell, Sachetna mandal and the principal. The canteen has separate sitting arrangement for girls. A police vigilance squad visits college under 'Nirbhaya program'.

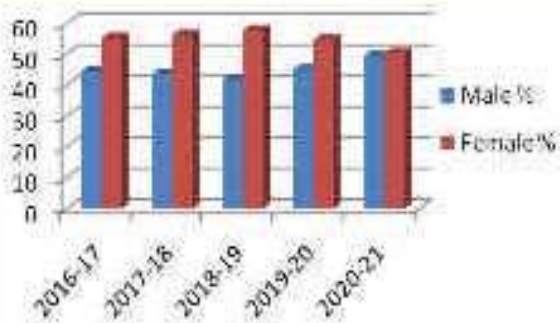
**Genderwise Details in Percentage- College**



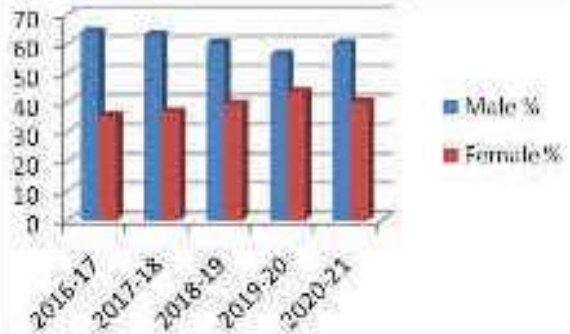
**Genderwise Details in Percentage Arts Faculty**



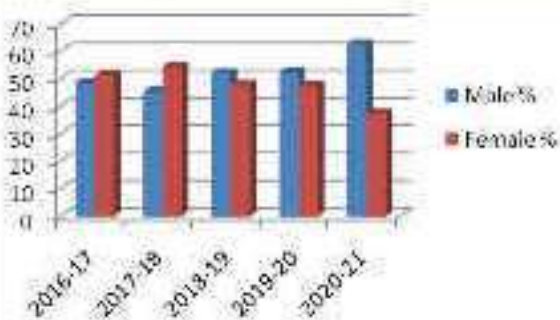
**Genderwise Details in Percentage Science Faculty**



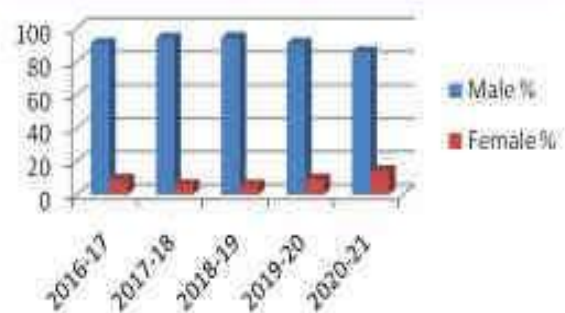
**Genderwise Details in Percentage Commerce Faculty**

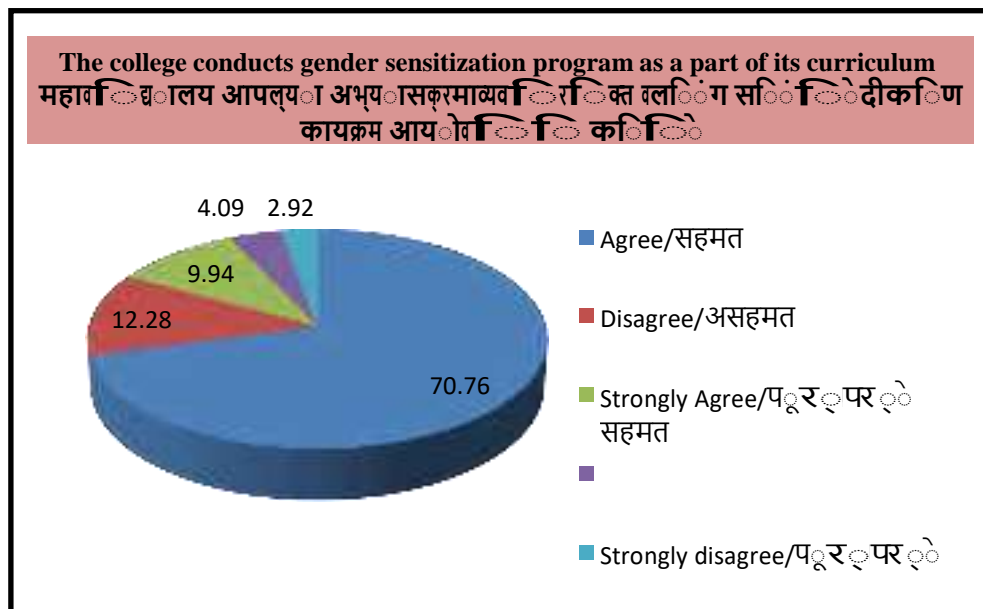
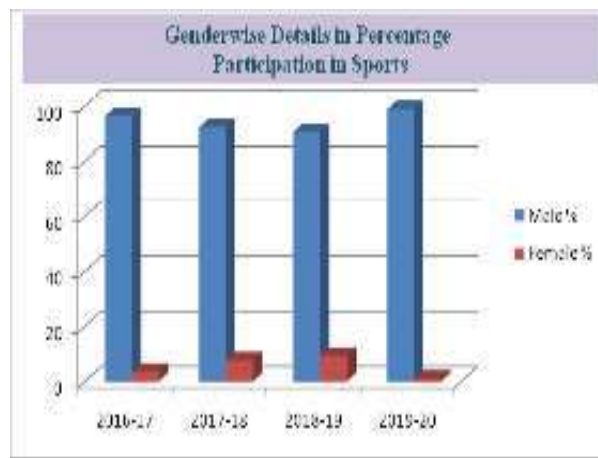
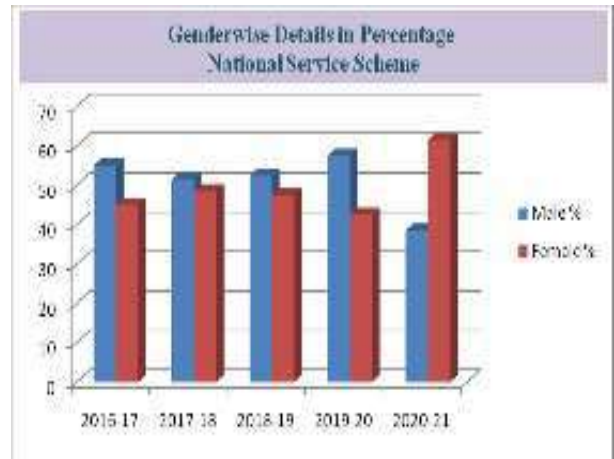
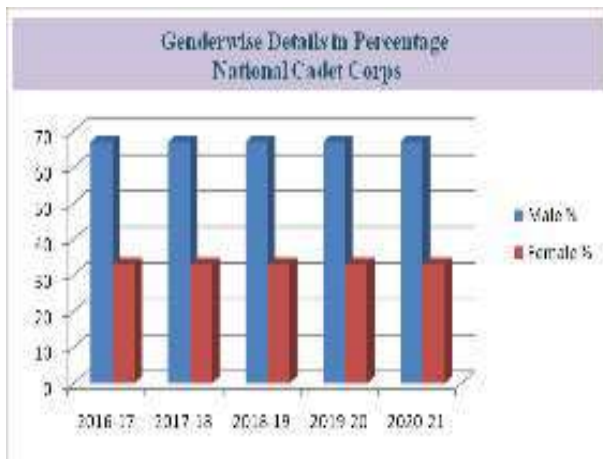


**Genderwise Details in Percentage Computer Science Department**



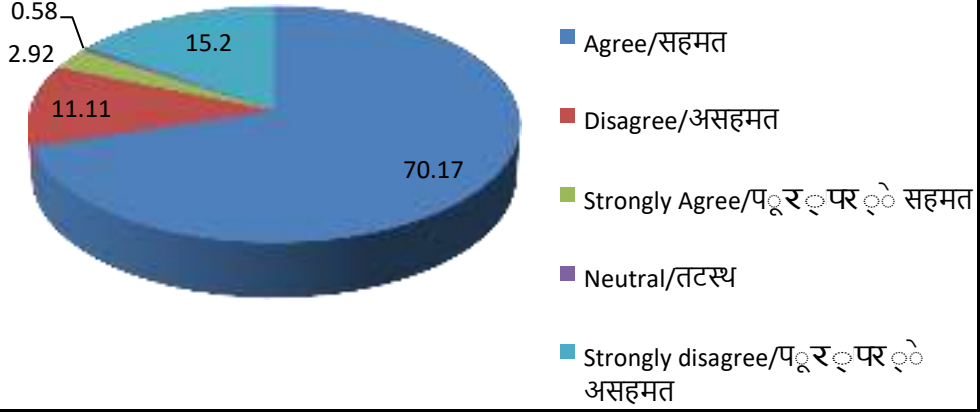
**Genderwise Details in Percentage B. Voc**





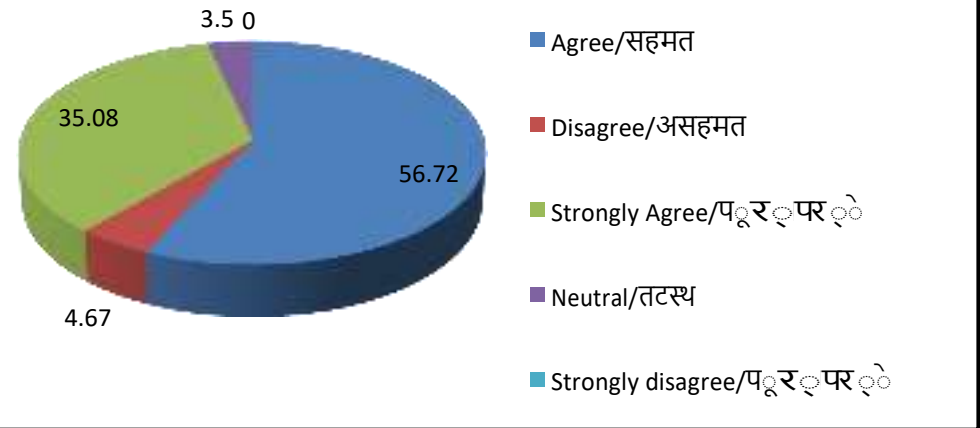
The college conducts gender awareness programs, such as awareness of sexual harassment, as a part of its curriculum.

महाराष्ट्र विद्यालय विद्या अभ्यासक्रमाचा एक भाग म्हणून लैंगिक छळाविषयी विद्यार्थ्यांना यासाठी ख्या लैंगिक विद्यार्थ्यांना यासाठी आयोजित केले.



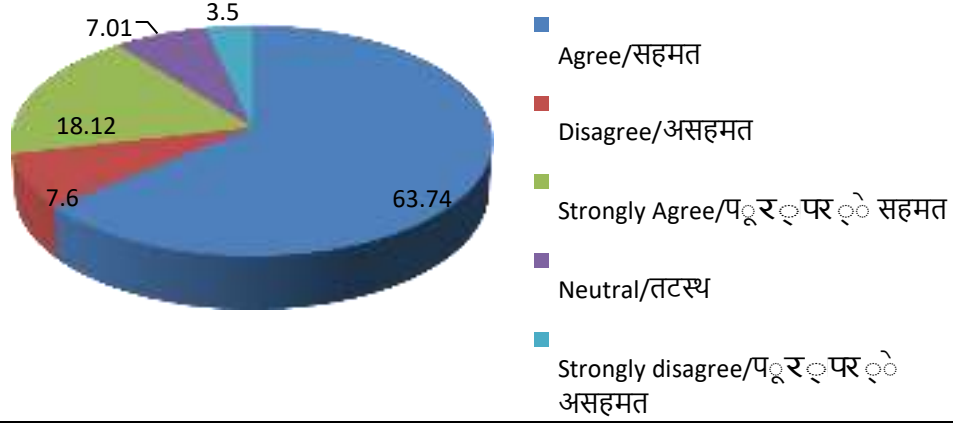
Adequate numbers of toilets are available in the campus for girls.

कॅम्पसमध्ये मुलींसाठी पुरेशा प्रमाणात शौचालये उपलब्ध आहेत.

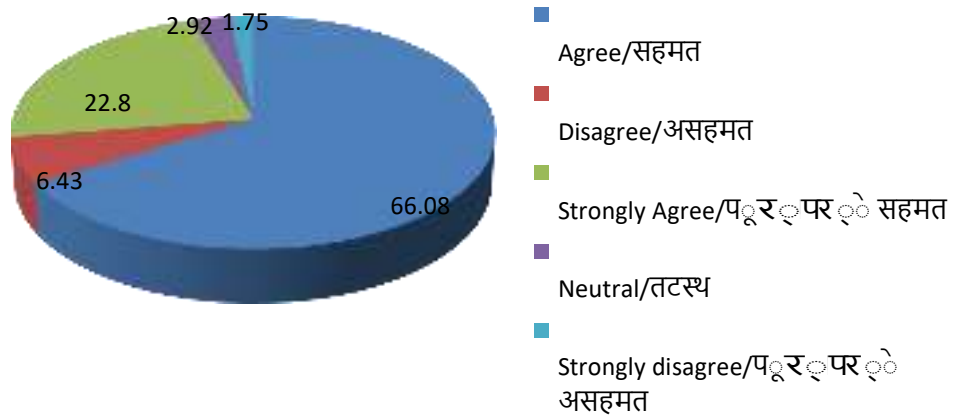




Adequate lighting is available inside the campus during night, including but not limited to, adequate light in corridor, class rooms, common areas, toilets etc.  
 िात्तीच्या िेळी कें म्पसमध्ये कारिडॉिमध्ये पुिेसा प्रकाश, (िंग खोल्या, सामान्य भागाि, प्रसाधनगृहे इ.) पुिेसा प्रकाशयोिेना उपलब्ध असिाि,

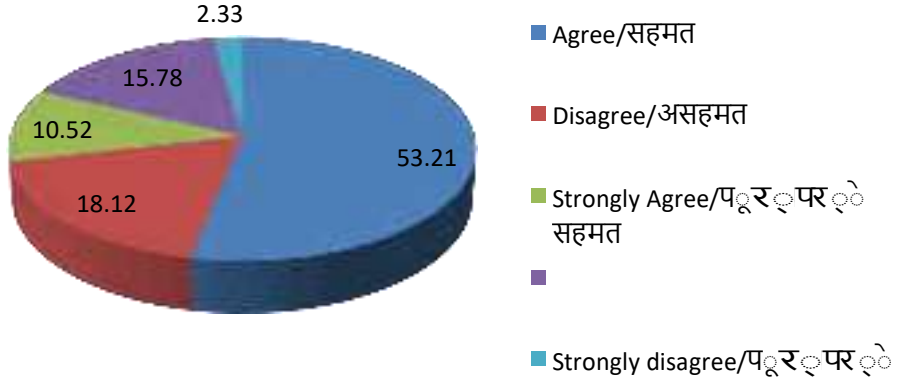


Adequate security arrangements have been made in the campus and common areas during day and night.  
 िात्री िेदिस कें म्पसमध्ये पुिेसा सुिेक्षा व्यिस्था के ली आहे



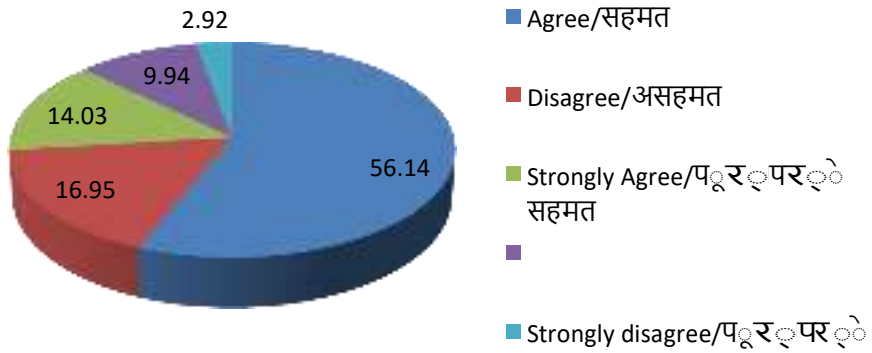
Options for flexible timing are available for girl students. For example, for outside scholars, no class is arranged in late evening or early morning.

मुली विद्यार्थ्यांसाठी लवचक वेळेचे पयाय उपलब्ध आहे. उदाहरणार्थ, बाहेरील विद्यार्थ्यांसाठी संध्याकाळी उश्या वक्रीं िा पहाटे कोणत्याही िगाची वस्थिा के ली िाि

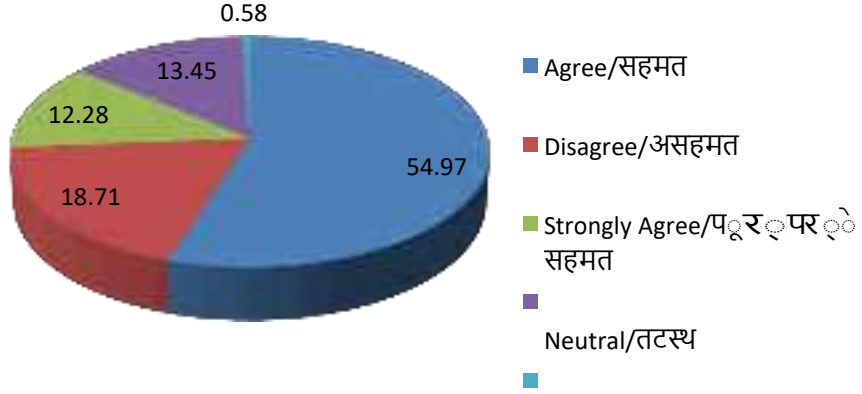


A women cell is set up in the college and students are aware about the women cell.

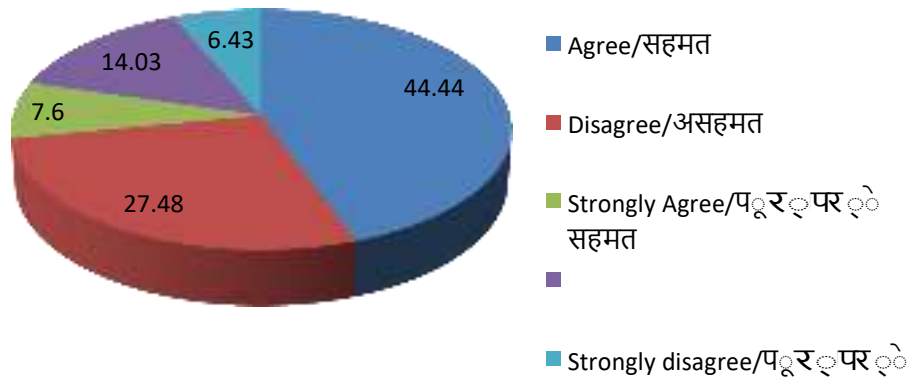
महाविद्यालयाि एक महला कक्ष सुरू किय्याि आला असून विद्यार्थ्यांना महला सेलबद्दल माहिी आहे.



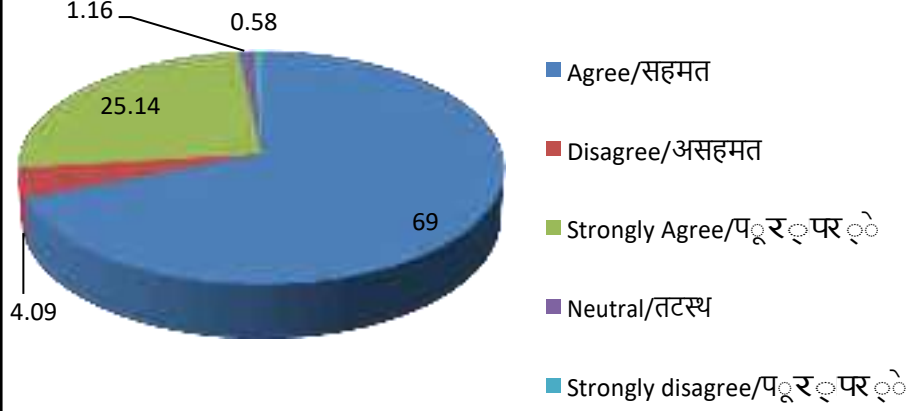
**There are lady faculties available in the women cell**  
**महला सेल मध्ये महला सदस्य आहे**



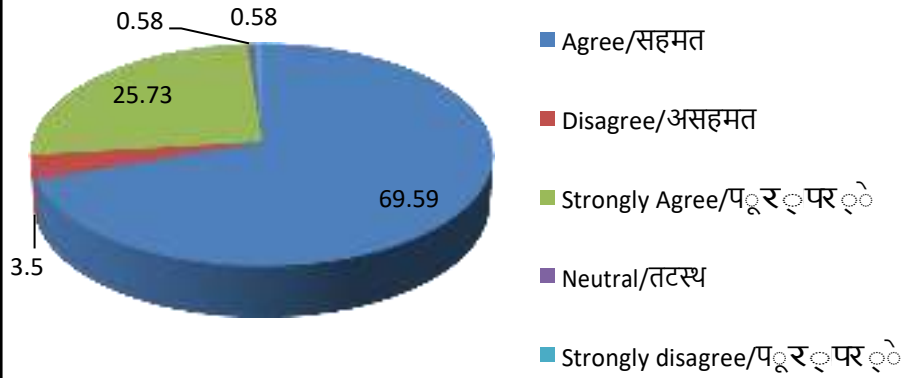
**Do you reach out to women's cell**  
**आपण महला िंच्या सेलपयां ि पोहोच िा**



The classroom offers equal opportunities to all genders.  
 िगािि सिि बलिंगाििना समान सििंधी बदली ििाििे



There is equal opportunity to all genders for free and fair expression of ideas  
 रििाििािििच्य़ा मुक्त आदण न्याय्य अवभव्यक्तीसाठी सििि  
 ररुिंसा सिििंन ा समान सिििंधी आदणे



## Salient Findings

- Students strength particularly girl's strength is high in science UG and PG programmes
- Girl's enrolment is more than that of boys in most of the B. Sc. classes.
- Success rate of girl students is higher than that of boys.
- The participation of girls in cultural activities is higher than boys
- In NSS girl students get equal opportunities.
- In regular teaching staff the strength of females are higher than male
- Participation of girls in the sports activity is comparatively very much less

## Suggestions

- Define and deepen the understanding of gender equality concepts such as gender equity, empowerment of women, men and masculinities
- The number of female students at Arts, Commerce and B. Voc. can be increased.
- Importance of sports and physical education can be percolated to every girl student
- The number of female staff to decision making bodies may be increased
- Organise more sports programmes on a regular basis.
- More awareness program on Legal rights



**Dr. S. D. Umdale**

Member



**Dr. R. S. Dhabbe**

Member



**Dr. S. R. Nakate**

Member



**Dr. V. B. Devkar**

Chairman

## Published on Website through



IQAC Coordinator



Principal

**Annexure**  
**Questionnaire Format**

S. No	Question	Responses
1	<p>The college conducts gender sensitization program as a part of its curriculum</p> <p>महाविद्यालय आपल्या अभ्यासक्रमाव्यवस्थित वलग सेंद्रीकरण कार्यक्रम आयोजित करिते</p>	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ टिस्थ
2	<p>The college conducts gender awareness programs, such as awareness of sexual harassment, as a part of its curriculum.</p> <p>महाविद्यालय विया अभ्यासक्रमाचा एक भाग म्हणून लैंगिक छळविषयी विंगरूकिया यासाखिया लैंगिक विंगरूकिया कायक्रमाचे आयोजिन करिते.</p>	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ टिस्थ
3	<p>Adequate numbers of toilets are available in the campus for girls.</p> <p>कॅ मपसमध्ये मुलीसाठी पुशिया प्रमाणाशि शौचालये उपलब्ध आहेत.</p>	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ टिस्थ
4	<p>Adequate lighting is available inside the campus during night, including but not limited to, adequate light in corridor, class rooms, common areas, toilets etc.</p> <p>रात्रीच्या वेळी कॅ मपसमध्ये कॉरिडॉरमध्ये पुशिया प्रकाश, (विंग खोल्या, सामान्य भागाशि, प्रसाधनगृहे इ.) पुशिया प्रकाशयोजिना उपलब्ध असिाशि,</p>	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ टिस्थ

5	Adequate security arrangements have been made in the campus and common areas during day and night. विातरी वि बढिस कँ मपसमध्ये पुिेसा सुिक्पा व्यिस्था के ली आहे	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि



		Strongly Disagree/ पूणपणे असहमि
		Neutral/ फिटस्थ
6	Options for flexible timing are available for girl students. For example, for outside scholars, no class is arranged in late evening or early morning. मुली विद्यार्थ्यांसाठी लविकक वेळेचे पयाय उपलब्ध आहेत. उदाहरणार्थ, बाहेरील विद्वानासाठी सध्याकाळी उश्याक विा पहाटे कोणत्याही वेळाची व्यस्थिा के ली विा वि नाही.	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ फिटस्थ
7	A women cell is set up in the college and students are aware about the women cell. महाविद्यालयांि एक महिला कक्ष सुरु कण्यांि आला असून विद्यार्थ्यांना महिला सेलबद्दल माहविी आहे.	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ फिटस्थ
8	There are lady faculties available in the women cell महिला सेल मध्ये महिला सदस्य आहेत	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ फिटस्थ
9	Do you reach out to women's cell आपण महिलांच्या सेलपयि पोहोचिा	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ फिटस्थ
10	The classroom offers equal opportunities to all genders. वेगवेगळ्या लिंगांना समान संधी व्दली विा विे	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि
		Disagree/ असहमि
		Strongly Disagree/ पूणपणे असहमि
		Neutral/ फिटस्थ
11	There is equal opportunity to all genders for free and fair expression of ideas	Strongly Agree/पूणपणे सहमि
		Agree/ सहमि

विचारांच्या मुक्त आवण न्याय्य अव्यक्तीसाठी सविबलगाना समान सधी आहे	Disagree/ असहमि
	Strongly Disagree/ पूणपणे असहमि
	Neutral/ विटस्थ

## **Report of National Webinar on Fundamentals of Career in Research: Basic Requirements and Scope**

September 5, 2020

**Resource Person: Mr. M. M. Kambale,**

**Senior Technical Manager, ADIV Pure Nature, Natural Dyeing Unit, Mumbai.**

Department of Chemistry and Physics, Jaysingpur College, Jaysingpur and P.G. Department of Chemistry and Physics, Devchand College, Arjunnagar, Maharashtra organized a National Webinar on **Career in Research: Basic Requirements and Scope** on 5<sup>th</sup> Sept. 2020 in association with IQAC Jaysingpur College, Jaysingpur and IQAC Devchand College, Arjunnagar, Maharashtra. **Mr. M.M. Kambale**, Senior Technical Manager, ADIV Pure Nature, Natural Dyeing Unit, Mumbai was the resource person.

The publicity of webinar was done through the various whatsapp group of Physics and Chemistry teachers, students, scientist and research students. Almost 150 participants which includes teachers, students, scientist and research students from all over India registered for the webinar. A Telegram group of all these participants was created. On this group the Zoom link, Youtube link and Facebook live link was shared amongst the participants on 4<sup>th</sup> Sept. 2020.



**Mr. Maruti Kambale Presenting during webinar.**



On 5<sup>th</sup> Sept.2020, Dr. P.P. Chikode welcomed all the participants. He has given the details of MOU between the Jaysingpur College, Jaysingpur and Devchand College, Arjunnagar. He also mentioned the theme of webinar to develop research interest in UG and PG students and to avail research as their career. Mr. Sugam Chavan, Head, Dept. of Chemistry, Devchand College has given the brief introduction of **Mr. M. M. Kambale**. In the beginning of his talk he memorized the feelings about Devchand College, Arjunnagar and his teachers in the Chemistry department. Afterwards he explained the need research in industry and collaboration of Industry research with University curriculum. In his talk he introduced his ADIV PURE NATURE dyeing unit in Mumbai and its functions. Then he briefly explained how to extract the colors from natural plants like coconut, neem, tulsi etc. He explained the process of dye formation and to extract the natural colors. He displayed various samples of cloths prepared from natural dyes. He also displayed the live samples of cloths prepared from natural dyes. ADIV Pure exports the cloths prepared from these natural colors in various parts of world like France, England and America. He has mentioned the scope of research in his industry. Some of the participants have raised their questions in the personal chat room of Mr. Kamble. He has given the satisfactory answers to all the questions. The vote of thanks was given by Mr. Sugam Chavan and IQAC coordinator Dr. S. R. Sabale declared that webinar was over. The feedback of all the participants was collected online through google forms and after evaluation they were satisfied with the talk. Those participants who have submitted feedback form have been given the e-certificates through mail.

  
IQAC - Coordinator  
Jaysingpur College, Jaysingpur

Anekant Education Societys

# Jaysingpur College Jaysingpur

Internal Quality Assurance Cell (IQAC)

and

Department of Chemistry

Organized

## One Day Workshop on “Research methodology”

Date: 25<sup>th</sup> February 2021

Venue: Conference Hall

The purpose of research is to inform action. Research must always be of high quality in order to produce knowledge that is applicable to the society for its betterment. It is very important to explore the knowledge amongst students to perform



research. Taking this into the consideration, IQAC and Department of Chemistry, Jaysingpur College Jaysingpur has organized a Workshop

on Research methodology for M. Sc. I year students on 25<sup>th</sup> February 2021. Principal Dr. R. R. Kumbhar worked as resource person. Dr. B.M. Sargar, Msc. Coordinator has introduced and welcomed Principal Dr. R. R. Kumbhar, Jaysingpur College, Jaysingpur. Shri R. D. Tasgaonkar introduced the theme of the workshop. Almost 47 students and 15 teachers of college participated in the workshop.



Dr. R. R. Kumbhar discussed methodologies of doing research such as research paper searching, research paper reading, paper writing, and characterization techniques. He also explained preparation of green dyes, extraction of antacids from pomegranate, preparation of bamboo chatai and also discussed various topics of research.

During the session number of queries of the students about research has been resolved. This lecture received good response from participants. The vote of thanks was proposed by Dr. S. R. Sabale IQAC coordinator.

  
IQAC - Coordinator  
Jaysingpur College, Jaysingpur



## **Report of National Webinar on Fundamentals of Career in Research: Basic Requirements and Scope**

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The publicity of webinar was done through the various whatsapp group of Physics and Chemistry teachers, students, scientist and research students. Almost 150 participants which includes teachers, students, scientist and research students from all over India registered for the webinar. A Telegram group of all these participants was created. On this group the Zoom link, Youtube link and Facebook live link was shared amongst the participants on 4<sup>th</sup> Sept. 2020.



**Mr. Maruti Kambale Presenting during webinar.**





On 5<sup>th</sup> Sept.2020, Dr. P.P. Chikode welcomed all the participants. He has given the details of MOU between the Jaysingpur College, Jaysingpur and Devchand College, Arjunnagar. He also mentioned the theme of webinar to develop research interest in UG and PG students and to avail research as their career. Mr. Sugam Chavan, Head, Dept. of Chemistry, Devchand College has given the brief introduction of **Mr. M. M. Kambale**. In the beginning of his talk he memorized the feelings about Devchand College, Arjunnagar and his teachers in the Chemistry department. Afterwards he explained the need research in industry and collaboration of Industry research with University curriculum. In his talk he introduced his ADIV PURE NATURE dyeing unit in Mumbai and its functions. Then he briefly explained how to extract the colors from natural plants like coconut, neem, tulsi etc. He explained the process of dye formation and to extract the natural colors. He displayed various samples of cloths prepared from natural dyes. He also displayed the live samples of cloths prepared from natural dyes. ADIV Pure exports the cloths prepared from these natural colors in various parts of world like France, England and America. He has mentioned the scope of research in his industry. Some of the participants have raised their questions in the personal chat room of Mr. Kamble. He has given the satisfactory answers to all the questions. The vote of thanks was given by Mr. Sugam Chavan and IQAC coordinator Dr. S. R. Sabale declared that webinar was over. The feedback of all the participants was collected online through google forms and after evaluation they were satisfied with the talk. Those participants who have submitted feedback form have been given the e-certificates through mail.

  
IQAC - Coordinator  
Jaysingpur College, Jaysingpur

# National Webinar on Fundamentals of Electrocatalysis for Low Temperature Fuel Cell Applications

Organized by

Department of Chemistry & Physics  
Jaysingpur College, Jaysingpur, Maharashtra

and

P. G. Department of Chemistry  
Devchand College, Arjunnagar, Maharashtra

Tuesday, 18<sup>th</sup> August 2020 @ 10.30 am

In Association with

**IQAC, Jaysingpur College, Jaysingpur and  
IQAC, Devchand College, Arjunnagar**

Our Speaker



**Dr. Bhalchandra Kakade,**  
Associate Professor,  
SRM Research Institute,  
SRM Institute of Science and Technology,  
Kattankulathur, Chennai – 603 203.

## Report of National Webinar on Fundamentals of Electrolysis for Low Temperature Fuel Cell Applications

18<sup>th</sup> Aug. 2020

**Resource Person: Dr. Bhalchandra Kakade,**

Professor, SRM Research Institute, Chennai

Department of Chemistry and Physics, Jaysingpur College, Jaysingpur and P.G. Department of Chemistry and Physics, Devchand College, Arjunnagar, Maharashtra organized a National Webinar on Fundamentals of Electrolysis for Low Temperature Fuel Cell Applications on 18<sup>th</sup> Aug. 2020 in association with IQAC Jaysingpur College, Jaysingpur and IQAC Devchand College, Arjunnagar, Maharashtra. Dr. Bhalchandra Kakade, Professor, SRM Research Institute, Chennai was the resource person.

The publicity of webinar was done through the various whatsapp group of Physics and Chemistry teachers, students, scientist and research students. Almost 350 participants which includes teachers, students, scientist and research students from all over India registered for the webinar. A Telegram group of all these participants was created. On this group the Zoom link, Youtube link and Facebook live link was shared amongst the participants on 17<sup>th</sup> Aug.2020.

On 17<sup>th</sup> Aug.2020, IAQC coordinator Dr. S.R. Sabale welcomed all the participants. He has given the details of MOU between the Jaysingpur College, Jaysingpur and Devchand College, Arjunnagar. Principal Dr. R.R. Kumbhar addressed the participants and elaborated the work of Dr. Kakade in the Fuel cells. Dr. S.R. Sabale has given the brief introduction of Dr. Bhalchandra Kakade. The talk of Dr. Kakade begins with societal need of renewable energy. Briefly he explains need of fuel cell as compared with other fuels. He briefly explained what is fuel cell and redox reaction. He has also given the challenges for PEMFCs technology and explained the coordination of novel catalysts and membranes. With the animation digrams he has explained the use of platinum and their alloys and their surfaces. At the end of his talk he shared the number of applications of fuel cells in Industry, research and in day today appliences. Some of the participants have raised their questions in the personal chat room of Dr. Kakade. He has given the satisfactory answers to all the questions. The vote of thanks was given by Dr. P.P. Chikode and he declared that webinar was over. The feedback of all the participants was collected online through google forms and after evaluation they were satisfied with the talk. Those participants who have submitted feedback form have been given the e-certificates through mail.



TOAC - Coordinator  
Jaysingpur College, Jaysingpur

# Report of National Webinar on Physics of Nanomaterial Characterization

21<sup>st</sup> August 2020

**Resource Person: Dr. Manish M. Kulkarni**

Senior Scientific Officer, I.I.T., Kanpur

Department of Chemistry and Physics, Jaysingpur College, Jaysingpur and P.G. Department of Chemistry and Physics, Devchand College, Arjunnagar, Maharashtra organized a National Webinar on Physics of Nanomaterial Characterization on 21<sup>st</sup> Aug.2020 in association with IQAC Jaysingpur College, Jaysingpur and IQAC Devchand College, Arjunnagar, Maharashtra. Dr. Manish M. Kulkarni, Senior Scientific Officer, I.I.T., Kanpur was the resource person.

The publicity of webinar was done through the various whatsapp group of Physics and Chemistry teachers, students, scientist and research students. Almost 410 participants which includes teachers, students, scientist and research students from all over India registered for the webinar. A Telegram group of all these participants was created. On this group the Zoom link, Youtube link and Facebook live link was shared amongst the participants on 20<sup>th</sup> Aug.2020.

On 21<sup>st</sup> Aug. 2020, IAQC coordinator Dr. S.R. Sabale welcomed all the participants. He has given the details of MOU between the Jaysingpur College, Jaysingpur and Devchand College, Arjunnagar. Principal Dr. R.R. Kumbhar addressed the participants and elaborated the use of nanotechnology in day today life. Convener Dr. P. P. Chikode has given the brief introduction of Dr. Manish Kulkarni. The talk of Dr. Kulkarni begins with the various facilities available with the Advanced Technological Centre at I.I.T., Kanpur. Briefly he explains the number of facilities available with the centre. He proceeded with the introduction of nanotechnology with various examples. Then he briefly explains the working of SEM, TEM and FE-SEM, which is very useful for beginner researcher. He also elaborated the applications of nanotechnology in Industry and the current developments in the nanotechnology. He has compared the various characterization tools and their uses in Nanotechnology. He also demanded the collaborative research in Physics, Chemistry and biology for better applications. At the end of his talk he shared the web link address to avail the facilities of characterization at IIT, Kanpur. Some of the participants have raised their questions in the personal chat room of Dr. Kulkarni. He has given the satisfactory answers to all the questions. The vote of thanks was given by Dr. S.S. Mahajan and she declared that webinar was over. The feedback of all the participants was collected online through google forms and after evaluation they were satisfied with the talk. Those participants who have submitted feedback form have been given the e-certificates through mail.



IQAC - Coordinator  
Jaysingpur College, Jaysingpur

# National Webinar on Fractional Calculus and Dynamical System



Organized by

**Department of Mathematics, Statistics and IQAC  
Jaysingpur College, Jaysingpur-416101, Maharashtra**

Saturday, 12<sup>th</sup> September, 2020 @ 11.00 am

## Report of the Webinar

Department of Mathematics and Statistics has organized a National Webinar on “**National Webinar on Fractional Calculus and Dynamical Systems**” on 12<sup>th</sup> September 2020 in association with Internal Quality Assurance Cell (IQAC) Jaysingpur College, Jaysingpur. For this webinar we have two resource persons viz. **Dr. Kishor D. Kucche**, Assistant Professor, Department of Mathematics, Shivaji University, Kolhapur and Dr. Sachinkumar Bhalekar, Associate Professor, School of Mathematics and Statistics, University of Hyderabad delivered their lecture on the topics **Basics of Fractional Calculus** and **Chaos in Dynamical Systems** respectively.



The publicity of webinar was done through the various WhatsApp groups, Telegram groups, Math-India Google of mathematics teachers, students, scientist and research students. Almost **650** participants which includes teachers, students, and research students from **national and international** registered for the webinar.

Dr. Sandip Sabale, IQAC Coordinator welcomed all the participants joined on zoom. Mr. Ramesh D. Shinde, Co-convener of this webinar mentioned the theme and purpose of the webinar. Mr. Pritam R. Patil, Secretary of this webinar has given the brief introduction of resource person Dr. Kishor D. Kucche. Dr. Kucche briefly explained What is Fractional Calculus? Properties of fractional derivative operators: Riemann-Liouville (RL) fractional derivative and Caputo fractional derivative. Dr. Kucche also, discussed Laplace transform of fractional derivatives, Comparison: Riemann-Liouville versus Caputo derivative.

In the second session Dr. Jayvant B. Patade, Convener of this webinar has given the brief introduction of resource person Dr. Sachinkumar Bhalekar. Dr. Bhalekar



# National Webinar on Fractional Calculus and Dynamical System



Organized by

**Department of Mathematics, Statistics and IQAC  
Jaysingpur College, Jaysingpur-416101, Maharashtra**

**Saturday , 12<sup>th</sup> September , 2020 @ 11. 00 am**

discussed continuous and discrete dynamical systems. He focused on Stability Analysis of Continuous Dynamical Systems. He also explained What is Chaos and Chaos in maps using nice examples.



The vote of thanks was Proposed by Mr. Ramesh D. Shinde and Dr. S. R. Sabale declared that webinar was over. The whole session was anchored by Dr. S. R. Sabale. The feedback of all the participants was collected online through google forms and after evaluation they were satisfied with the talk. Those participants who have submitted feedback form have been given the e-certificates through mail. The whole session was made available to society by YouTube link.

**Dr. J. B. Patade,**  
**Convener**

**IQAC - Coordinator**  
**Jaysingpur College, Jaysingpur**

# One Day National Workshop on Differentiation and Abstract Algebra for U. G. Students



Organized by

Department of Mathematics and Statistics with  
IQAC Jaysingpur College, Jaysingpur-416101  
Maharashtra

## Report of the Workshop

Department of Mathematics and Statistics has organized a National workshop on “**One Day National Workshop on Differentiation and Abstract Algebra for U. G. Students**” on **10<sup>th</sup> February 2021** in association with Internal Quality Assurance Cell (IQAC) Jaysingpur College, Jaysingpur. For this workshop we have two resource persons viz. **Scientist Dr. Sachinkumar Bhalekar**, Associate Professor, School of Mathematics and Statistics, University of Hyderabad and **Dr. M. T. Gophane**, Assistant Professor, Department of Mathematics, Shivaji University, Kolhapur and delivered their lecture on the topics **Differentiation** and **Abstract Algebra** respectively.





# One Day National Workshop on Differentiation and Abstract Algebra for U. G. Students

Organized by

Department of Mathematics and Statistics with  
IQAC Jaysingpur College, Jaysingpur-416101  
Maharashtra



The publicity of workshop was done through the various WhatsApp groups, and Telegram groups. Almost **134** participants which include teachers, students, and research students registered for the workshop.



Miss. Kirti Lambe and Miss. Swati Jadhve of T. Y., B.Sc. students have welcomed all the participants. Dr. Mahaveer Akkole, Secretary, Local Committee Jaysingpur College, Jaysingpur felicitated the resource persons in the presence of Vice-Principal Dr. S. A. Manjare, Dr. P. P. Chikode, Head of the Department Mr. R. D. Shinde and Dr. Mrs. Manish Kale, Head, Department of Botany. Miss Swati Patil of T. Y., B. Sc. mentioned the theme and purpose of the workshop. Dr. J. B. Patade, Convener of this event has given the brief introduction of resource person **Scientist Dr. Sachinkumar Bhalekar** and Mr. P. R. Patil, Co-convener of this workshop has given the brief introduction of resource person **Dr. M. T. Gophane**. Dr. P. P. Chikode, IQAC Co-coordinator delivered the keynote address.

# One Day National Workshop on Differentiation and Abstract Algebra for U. G. Students

Organized by

Department of Mathematics and Statistics with  
IQAC Jaysingpur College, Jaysingpur-416101  
Maharashtra





# One Day National Workshop on Differentiation and Abstract Algebra for U. G. Students



Organized by

**Department of Mathematics and Statistics with  
IQAC Jaysingpur College, Jaysingpur-416101  
Maharashtra**

Dr. Bhalekar briefly explained concept of continuity, uniform continuity and differentiability of function with nice examples.

In the second session, Dr. Gophane discussed the concept of Group, subgroup, normal subgroup with suitable examples. Also, he explained Ring, quotient ring, fundamental isomorphism theorems of group and ring.



The vote of thanks was proposed by Miss. Komal Kale, T.Y. B.Sc. and declared that workshop was over. The whole session was anchored by miss. Jadhav and Miss. Lambe. Those participants who have registered for workshop form have been given the e-certificates through the mail.

# One Day National Workshop on Differentiation and Abstract Algebra for U. G. Students

Organized by

Department of Mathematics and Statistics with  
IQAC Jaysingpur College, Jaysingpur-416101  
Maharashtra





# One Day National Workshop on Differentiation and Abstract Algebra for U. G. Students

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Maharashtra



  
IQAC - Coordinator  
Jaysingpur College, Jaysingpur



  
PRINCIPAL,  
Jaysingpur College, Jaysingpur.

# One Day National Workshop on Differentiation and Abstract Algebra for U. G. Students

*Organized by*

**Department of Mathematics and Statistics with  
IQAC Jaysingpur College, Jaysingpur-416101  
Maharashtra**



C. Output: 8: Books and Chapters in edited volumes/ books published, and papers in national/international conference-proceeding per teacher during the year

Chapters in book (0.5 marks each)

Name of the teacher	Title of the book/chapters published	National / International	Year	ISBN/ISSN number of the proceeding	Name of the publisher	Link if available online
Suraj Umdale	Transgenic Finger Millet [Eleusine coracana (L.) Gaertn.] for Crop Improvement	International	2020	978-981-15-5897-9	Springer Nature Switzerland	<a href="https://doi.org/10.1007/978-981-15-5897-9">https://doi.org/10.1007/978-981-15-5897-9</a>
<b>Dr. S D Umdale</b>	<b>Plant Performance Under Environmental Stress; Chapter: Plant performance and defensive role of proline under environmental stress</b>	<b>International</b>	<b>2021</b>	978-3-030-78521-5	Springer Nature Switzerland	<a href="https://doi.org/10.1007/978-3-030-78521-5_8">https://doi.org/10.1007/978-3-030-78521-5_8</a>
<b>Dr. S D Umdale</b>	<b>Plant Performance Under Environmental Stress; Chapter: Silicon and plant responses under adverse environmental conditions</b>	<b>International</b>	<b>2021</b>	978-3-030-78521-6	Springer Nature Switzerland	<a href="https://doi.org/10.1007/978-3-030-78521-5_14">https://doi.org/10.1007/978-3-030-78521-5_14</a>
V. B. Deokar	दूर शिक्षण केन्द्र : स्थूल आर्थिक विश्लेषण	National	2020	78-93-89327-78-6	Shivaji University, kolhapur	
V. B. Deokar	दूर शिक्षण केन्द्र : स्थूल अर्थशास्त्र /Macro Economics	National	2020	978-93-89327-62-5	Shivaji University, kolhapur	

Books Published (1mark each)

Name of teacher	Title of the book	National / International	Year	ISBN/ISSN number of the proceeding	Name of the publisher
S. B. Bansode	B. A.-II: १५दी सत काव्य तथा राष्ट्रीय काव्यधारा	National	2020	ISSN- 978-93-89327-59-5	Shivaji University, kolhapur
N. L. Kadam	Advanced Accountancy Paper I for B. Com. III Sem. V	National	2020	ISBN 978-81-944982-2-3	Ruby Book Publications, Kolhapur
N. L. Kadam	Advanced Accountancy Paper II for B. Com. III Sem.V	National	2020	ISBN 978-81-944982-4-7	Ruby Book Publications, Kolhapur
V. B. Deokar	दूर शिक्षण केंद्र : सकाराची तत्वे; भारतातील सकाराची सस्था	National	2020	978-93-89327-73-1	Shivaji University, kolhapur

Paper in conference proceeding (1 mark each)

Name of Teacher	Title of paper	Conference/Proceeding	Level	ISBN/ISSN
S. B. Daphalapurkar	लोकसंशय आण ललत संशय याचा अनुबध	लोकसंस्कृतीची अशिक्षारूपे	National	2919-6025
N. P. Savant	तमांिकाचे बदलते स्वरूप	लोकसंस्कृतीची अशिक्षारूपे	National	2919-6025
P. T. Mane	कोडिड -१९ टाळे बद्रीचा नृसंिडीच्या पयटन अथकारणांिर झालेला परणाम : एक शकतसक अभ्यास	३१ ि ३२ िे सयुक्त अशिक्षिेिन भारतातील सध्याचे आथक सकट : पयटनाचे अथिास्त	University	978-81-931719-7-4
V. B. Devkar	जयसगपूर िे 5रातील मोबाइलला शिक्रीरील कोडिड -१९ चा परणाम	३१ ि ३२ िे सयुक्त अशिक्षिेिन भारतातील सध्याचे आथक सकट : पयटनाचे अथिास्त	University	978-81-931719-7-4





Book/Chapters or Papers in  
proceedings published by  
Faculty

# Plant Performance and Defensive Role of Proline Under Environmental Stress

Plant Performance Under Environmental Stress pp 201-223 | Cite as

- Pankaj S. Mundada (1) (2)
- Suchita V. Jadhav (1)
- Supriya S. Salunkhe (1)
- Swati T. Gurme (1)
- Suraj D. Umdale (3)
- Tukaram D. Nikam (2)
- Mahendra L. Ahire (4)

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2. Department of Botany, Savitribai Phule Pune University, , Pune, India
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4. Department of Botany, Yashwantrao Chavan Institute of Science, , Satara, India

Chapter

First Online: 24 August 2021

- 478 Downloads

## Abstract

Plants are exposed to various kinds of abiotic and biotic stresses throughout their development which include salinity, drought, extremes temperature, heavy metal, and infection by pathogens, nutrient deficiency, and UV radiation. Amino acids have traditionally been considered as precursors to and constituents of proteins and play an important role in plant metabolism and development. Proline, an amino acid, plays an important role in plants. It protects the plants from various stresses and also helps plants to recover from stress more rapidly. If plants are exposed to stress, then proline applied exogenously results in increased growth and other physiological characteristics of plants. Also, they contain different types of functions like it is an osmolyte, ROS scavenger, redox balancer, cytosolic pH buffer, molecular chaperon, and a stabilizer of protein structure. Several reports have been developed about a correlation between the content of proline and plant resistance to unfavorable environmental factors. Proline accumulation occurs due to the stimulation of its synthesis from glutamic acid, the suppression of proline oxidation, or changes in its incorporation in protein synthesis. Under various stresses, proline is synthesized in the cytosol and chloroplasts. This chapter provides comprehensive view regarding the beneficial role of proline in plants under adverse environmental conditions.

## Keywords

Proline Osmolyte Cytosolic pH buffer Abiotic and biotic stress

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## Notes

# Silicon and Plant Responses Under Adverse Environmental Conditions

Plant Performance Under Environmental Stress pp 357-385 | Cite as

- Pankaj S. Mundada (1) (2)
- Suchita V. Jadhav (2)
- Supriya S. Salunkhe (2)
- Swati T. Gurme (2)
- Suraj D. Umdale (3)
- Rajkumar B. Barmukh (4)
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Chapter

First Online: 24 August 2021

- 469 Downloads

## Abstract

Silicon is the second most abundant element and accounts for 27–28% of the earth's crust. Biological systems also contain significant amounts of silicon, as amorphous silica ( $\text{SiO}_2 \cdot n\text{H}_2\text{O}$ ), and its soluble form, silicic acid ( $\text{Si}(\text{OH})_4$ ). Plant dry biomass contains 0.1–10% of silicon. Despite its extensive distribution in plants, silicon is viewed as a quasi-essential element, as most of the plant species can live their entire life in its absence. Interestingly, even in higher amounts, silicon is harmless, noncorrosive, and nonpolluting to plants. It is typically accumulated in the epidermal cells, creating external dual layers of silica-cuticle and silica-cellulose on leaves, stem, and hulls. It thus acts as a physical barrier in plants. Si also alleviates the stress-induced responses in plants. This chapter reviews how plants benefit from silicon under adverse environmental conditions.

## Keywords

Silicon Plant growth Plant defense Stress Physiology

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## Notes

## Acknowledgments

# Transgenic Finger Millet [*Eleusine coracana* (L.) Gaertn.] for Crop Improvement

Genetically Modified Crops pp 67-77 | Cite as

- Pankaj S. Mundada (1) (2)
- Suraj D. Umdale (3)
- Mahendra L. Ahire (2)
- S. Anil Kumar (4)
- Tukaram D. Nikam (1) Email author (tdnikam@unipune.ac.in)

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Chapter

First Online: 04 November 2020

- 224 Downloads

## Abstract

Finger millet [*Eleusine coracana* (L.) Gaertn.] is a nutritionally enriched member of the Poaceae family and sixth most important cereal crop. The crop is mostly cultivated throughout Asia, Africa, and South America. Finger millet is a rich source of minerals, vitamins, dietary fibers, and proteins as compared to other millets. The crop has a diverse gene pool with distinct features and genetic variations. It has several advantages of nutritional quality and quantity, health benefits, and abiotic and biotic stress adaptation over other cereals. Sustainable crop improvement is one of the critical tasks in the present-day plant breeding programs. Conventional methods of plant breeding have improved the crop yields, but have their limitations. In such a scenario, targeted and less time-consuming molecular marker-assisted breeding and genetic engineering-based tools and techniques are encouraged. In this chapter, we have discussed some of the transgenics developed in finger millet for crop improvement.

## Keywords

Biotic and abiotic stresses Crop improvement Finger millet Genetic engineering

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## Notes

## Acknowledgments



शिवाजी विद्यापीठ, कोल्हापूर

दूरशिक्षण केंद्र

सत्र-३ : पेपर-१

सहकाराची तत्त्वे

(Principles of Co-operation)

सत्र-४ : पेपर-२

भारतातील सहकारी संस्था

(Co-operatives in India)

(आंतर विद्याशाखीय विषय - I.D.S.)

(शैक्षणिक वर्ष २०२०-२१ पासून)

बी. ए. भाग-२ : अर्थशास्त्र



## प्रस्तावना

जून २००७ पासून शिवाजी विद्यापीठाने बहिःस्थ विद्यार्थ्यांसाठी दूरशिक्षण कार्यक्रम राबविण्यास सुरुवात केली आहे. शैक्षणिक वर्ष २०११-१२ पासून बी. ए. भाग-२ या अभ्यासक्रमास सत्र पद्धती सुरू झाली असून जून २०१९ पासून अभ्यासक्रम सुधारित करण्यात आला आहे. त्या अनुषंगाने या वर्गाच्या विद्यार्थ्यांसाठी सहकाराची तत्त्वे (IDS) पेपर नं. १ व भारतातील सहकारी संस्था (IDS) पेपर नं. २ हे पुस्तक लिहिले आहे. अर्थशास्त्र व सहकार या विषयातील तज्ज्ञांनी या पुस्तकातील वेगवेगळे घटक लिहिले आहेत. या पुस्तकातील सहकार विषयक विविध संकल्पना, विविध सहकारी संस्था त्यांची कार्यपद्धती या विषयीची मांडणी सोप्या व सुटसुटीत भाषेत करण्याचा प्रयत्न केला आहे. विद्यार्थी व वाचकांना या विषयातील विविध संकल्पना व आशय समजावा म्हणून आवश्यक त्या ठिकाणी कोष्टके व आकृत्या काढून विषय अधिक सोपा करून सांगण्याचा प्रयत्न केला आहे.

या पुस्तकात बी. ए. भाग-२ या वर्गाच्या विद्यार्थ्यांसाठी असलेल्या 'सहकाराची तत्त्वे' (IDS) पेपर नं. १ व भारतातील सहकारी संस्था (IDS) पेपर नं. २ या ऐच्छिक अभ्यासक्रमाची सत्र-१ साठी चार घटक व सत्र-२ साठी चार घटक अशा एकूण आठ घटकांमध्ये विभागणी करण्यात आली आहे. यामध्ये सत्र-३ मध्ये सहकाराचा प्रारंभ, सहकाराचे संघटन, सहकारातील राज्याची भूमिका, सहकारी संस्थांचे अंकेक्षण व सत्र-४ मध्ये भारतातील सहकारी पतपुरवठा, भारतातील सहकारी खरेदी विक्री संस्था, भारतातील सहकारी प्रक्रिया संस्था, आणि राष्ट्रीय संस्थांची सहकारातील भूमिका यांची सविस्तर मांडणी केली आहे.

बहिःस्थ विद्यार्थ्यांना विषयाचे त्वरित व नीट आकलन व्हावे म्हणून अभ्यास घटकांची मांडणी एका विशिष्ट विवेचन, सारांश, पारिभाषिक शब्द, स्वयं अध्ययनासाठी प्रश्न व त्यांची उत्तरे तसेच प्रत्येक घटकाच्या शेवटी सरावासाठी दीर्घोत्तरी प्रश्न व टीपा अशा पद्धतीने केली आहे. पुस्तकाच्या शेवटी जिज्ञासू विद्यार्थ्यांसाठी अधिक वाचनाकरिता संदर्भ पुस्तकांची नावे दिली आहेत. या पुस्तकाची मांडणी आणि विवेचन विद्यार्थ्यांना विषयाचे चांगले आकलन होण्यासाठी उपयुक्त ठरेल अशी अपेक्षा आहे. या पुस्तकाच्या लेखनाचे काम करणाऱ्या सर्व लेखकांना मनःपूर्वक धन्यवाद देतो. तसेच या पुस्तकाचे प्रकाशन करण्याच्या कामी मदत केलेल्या शिवाजी विद्यापीठातील प्रामुख्याने दूर शिक्षण विभागातील सर्व प्रशासकीय अधिकारी व कर्मचारी यांना धन्यवाद देतो.

या पुस्तकाचा वापर करणाऱ्या सर्व विद्यार्थी, शिक्षक व वाचक वगनि काही सूचना केल्यास त्यांचे स्वागतच आहे. या सूचना प्रकाशक किंवा संपादक मंडळ यांच्याकडे जरूर पाठवाव्यात. पुढील आवृत्तीसाठी त्याचा निश्चितच उपयोग होईल. धन्यवाद.

### ■ संपादक ■

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सहकाराची तत्त्वे; भारतातील सहकारी संस्था  
(आय.डी.एस.)

अभ्यास घटकांचे लेखक

लेखन सहभाग	सत्र-३ घटक क्रमांक	सत्र-४ घटक क्रमांक
प्रा. डॉ. एस. एस. पाटील कला व वाणिज्य महाविद्यालय, वडूज	१, २	-
डॉ. एस. के. चव्हाण आजरा महाविद्यालय, आजरा	३	-
प्रा. डॉ. गणपत गोपाळ गायकवाड शिवराज महाविद्यालय, गडहिंग्लज	४	-
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प्रा. रोहिणी देशपांडे श्रीमती एम. जी. कन्या महाविद्यालय, सांगली	-	३
डॉ. आण्णा काका पाटील सद्गुरू गाडगे महाराज कॉलेज (स्वायत्त), कराड.	-	४

■ संपादक ■

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दूरशिक्षण केंद्र

सत्र-३ पेपर-३

स्थूल अर्थशास्त्र-१

(Macro Economics-I)

सत्र-४ पेपर-५

स्थूल अर्थशास्त्र-२

(Macro Economics-II)

(शैक्षणिक वर्ष २०२०-२१ पासून)

बी. ए. भाग-२ : अर्थशास्त्र

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अभ्यास घटकांचे लेखक

लेखक	घटक क्रमांक
सत्र-३ : पेपर-३	
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सत्र-४ : पेपर-५	
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डॉ. काशिनाथ रामचंद्र तनगे कला, वाणिज्य आणि विज्ञान महाविद्यालय, गडहिंग्लज	२
प्रा. रोहिणी गिरीश देशपांडे श्रीमती एम. जी. कन्या महाविद्यालय, सांगली	३
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(Macro Economic Analysis)

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एम. ए. भाग-२ : सत्र-३

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सर्व हक्क स्वाधीन. शिवाजी विद्यापीठाच्या परवानगीशिवाय कोणत्याही प्रकाराने नक्कल करता येणार नाही.

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प्रकाशक :

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लेखक	घटक क्रमांक
प्रा. डॉ. एस. एम. भोसले सावित्रीबाई फुले महिला महाविद्यालय, सातारा	१, २
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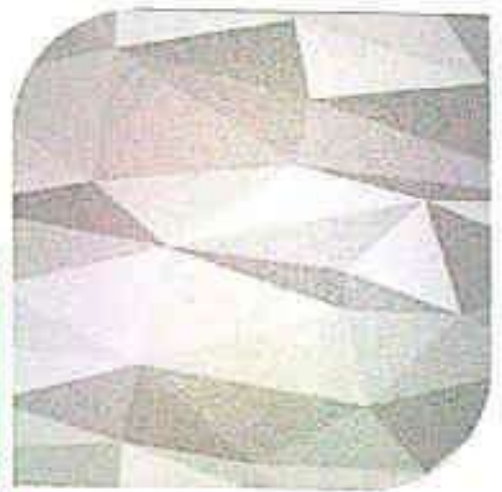
प्रा. डॉ. एस. एम. भोसले  
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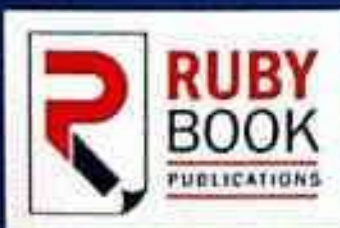
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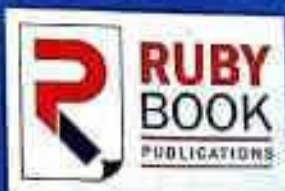


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■ सम्पादक ■

डॉ. एकनाथ श्रीपती पाटील  
राधानगरी महाविद्यालय,  
राधानगरी

डॉ. सुनील बापू बनसोडे  
जयसिंगपुर कॉलेज,  
जयसिंगपुर



डॉ. वसंतरावदादा पाटील महविद्यालय, तारसगाव  
पत्रांक ११५६

श्री. जयसिंग पुर्वे, तारसगाव, सांगली जिल्हा

पत्रांक ११५६

डॉ. वसंतरावदादा पाटील

पत्रांक ११५६



शिवाजी विद्यापीठ मराठी शिक्षक संघ, कोल्हापूर

पत्रांक ११५६

शिवाजी विद्यापीठ, कोल्हापूर, पुरस्कृत

पत्रांक ११५६

पत्रांक ११५६

पत्रांक ११५६

लोकसंस्कृतीची  
आविष्कार रूपे

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उकठापुरकर संतोषकुमार बाळकृष्ण  
जयसिंगपूर कुठ्ठे जयसिंगपूर

यांनी शनिवार, दिनांक ०६ आणि रविवार, दिनांक ०७ फेब्रुवारी, २०२१ या कालावधीत पद्यभूषण डॉ. वसंतरावदादा पाटील महविद्यालय तारसगाव, ता. तारसगाव, जि. सांगली येथे पदवी व पदव्युत्तर अध्यापन केंद्र, मराठी विभाग आणि शिवाजी विद्यापीठ शिक्षक संघ यांच्यावतीने आयोजित केलेल्या लोकसंस्कृतीची आविष्कार रूपे या विषयावरील दोन दिवसीय राष्ट्रीय चर्चासत्र व दहाव्या अधिवेशनात अध्यक्ष / साधनव्यक्ती / निमंत्रित निबंधवाचक / निबंधवाचक / सत्राध्यक्ष / सत्रसंयोजक / प्रतिनिधी म्हणून उपस्थित राहून सक्रिय सहभाग दिल्याप्रतीत्यर्थ हे प्रमाणपत्र प्रदान करण्यात येत आहे.

सादर केलेल्या शोधनिबंधाचे शीर्षक

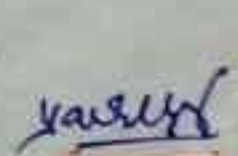
लोक साहित्य आणि लिखित साहित्य

यांचा अभुषण



डॉ. राजाजी पाटील  
अध्यक्ष, राष्ट्रीय चर्चासत्र  
व सत्र, मराठी विभाग

डॉ. तातोबा चवामे  
सत्राध्यक्ष,  
राष्ट्रीय चर्चासत्र



डॉ. प्रकाश दडकळे  
सत्र,  
शिवाजी विद्यापीठ मराठी विभाग संघ,  
कोल्हापूर



पा. (डॉ.) शिवकुमार सांगाळकर  
अध्यक्ष,  
शिवाजी विद्यापीठ मराठी विभाग संघ,  
कोल्हापूर



डॉ. नीलिम दडकळे  
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पद्मराव डॉ. वसंतरावदादा पाटील महविद्यालय,  
तारसगाव, जि. सांगली



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# लोकसाहित्य व ललितसाहित्य यांचा अनुबंध

संतोषकुमार बाळकृष्ण इफळाधूरकर

ज्योतिषपुर कॉलेज, ज्योतिषपुर

ललित साहित्याच्या आकलन व आस्वादासाठी लोकतत्वीय दृष्टीचा अवलंब करावा लागतो. प्रत्येक लोकगीत हे मूलतः व्यक्तिनिर्मित साहित्यीय कृती असते आणि कालांतराने त्याला लोकगीतांचे स्वरूप प्राप्त होते. ललित साहित्यात समाविष्ट होणारी गीते ही मूलतः लोकगीतेच होत. लोकगीतांमध्ये समाजातील बदलत्या वास्तवाचा उल्लेख अधूनमधून होत असतात. शिवांची जात्यावरील ही ओवी त्यादृष्टीने महत्त्वाची आहे.

गांधी माझा सखा गं, ओवी त्याला गाईन ।

ओव्या गाऊन कौतुक, तू येरे वा विडूला।।

ही ओवी महात्मा गांधींचे कार्य प्रामाण भागात लोकप्रिय असलेल्या काळातील आहे. लोकसाहित्यातील लोककथा, लोकगीते, लोकप्रम, लोकसंकेत, शब्दा, समजुती, आचार-विचार व कल्पना व्यक्तीच्या जीवनावर होणारा परिणाम यांची चित्रणे ही ललित साहित्यात चित्रित केलेली असतात. त्यामुळे ललित साहित्याच्या अभ्यासाच्या व मूल्यमापनाच्या दृष्टीने लोकतत्वीयदृष्टीची जाण असणे आवश्यक आहे. पैल तो गे काऊ कोकताहे!

शकुन गे माये सांगताहे!

हा संत ज्ञानदेवांचा अभंग प्रसिद्ध आहे. 'परमेश्वर माझ्या घरी येणार आहे. तसे शुभशकुन मला होत आहेत' असा त्या अभंगाचा अर्थय आहे.

विडूळ वाद्य यांची कविता लोकगीतांमधील आकृतीबंधाचा स्वीकार करते. लोकतत्वीय भावभावनांचे मनोज्ञ दर्शन त्यांची कविता घडविते.

'राघू मैना जेऊ घातले वाटीत

राघू मोठा फंदी मैना गोवली गोटीत !'

असा लोकगीतांमधील लोकबंध सुगंधासारखा त्यांच्या कवितेत दखळतो. बहिणाबाईंच्या कवितांची भाषा ही लोकगीतासारखीच बोली भाषा आहे. भाषेचे सहजसुंदर अकृत्रिम बोलारूप बहिणाबाईंच्या काव्याचे वैशिष्ट्य आहे. मराठीतील सुप्रसिद्ध शाहिर दादा कोंडके यांच्या चित्रपटातील गाण्यांची कूसही लोकगीतांचा आकृतीबंध स्विकारताना दिसते. दादांनी लोकमानसाची नाडी ओळखली होती. खेड्यातील माणसांच्या जिब्याच्या विषय गांव, माणसं, शेत, शिवार, बैल, जनावरे, लोकपरंपरा इत्यादींचा वापर आपल्या लोकगीत सदृश्य गाण्यांतून केला.

'आम्ही कष्टाळू शेतकरी, काळी आई आमची पंढरी

आमच्या दुमियेची दौलत सारी, ही जोडी बेलाची खिल्लारी....'

लोकनाट्य शैलीतंत्राचा प्रभाव लक्षात घेऊनच अभिजात कलावादी नाटककारांनी लोकनाट्य शैलीच्या काही घटकांचा वापर आपल्या नाटकांमधून केला



शिवजी विद्यार्थी यादवी विद्या संस्थेचे शिवाजीय संशोधन

# शिविम् संशोधन पत्रिका

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सर्ग दुसऱ्या : अंक संपन्न - साप्तीसावा

जानेवारी-फेब्रुवारी-मार्च, एप्रिल-मे-जून २०२१



"ज्ञान, विज्ञान आणि सुलोकमान यासाठी शिवाय प्रगत" -

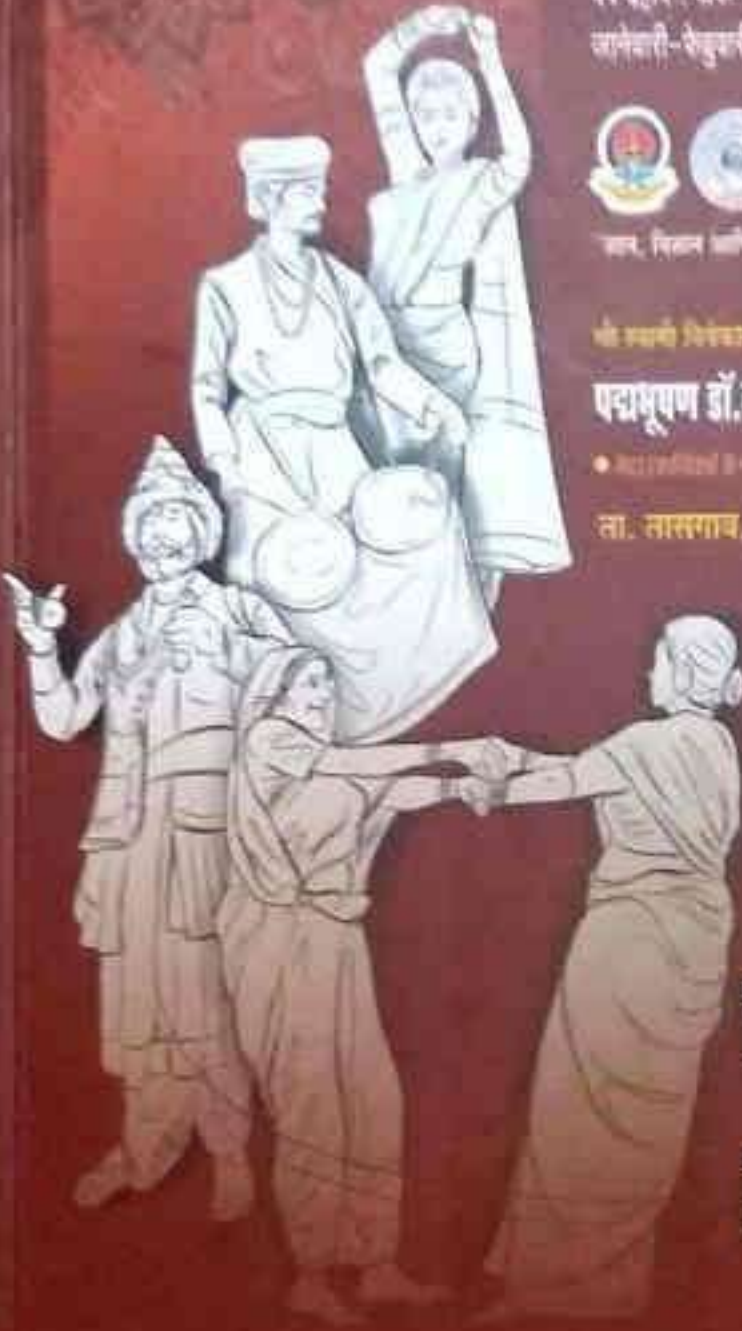
शिवधामराणी डॉ. बापूजी साळुंसे

श्री. जयशंकी शिरोकारांचे शिवाय संस्था, कोल्हापूर संघीय

एकाभूषण डॉ. वसंतरावदादा पाटील महाविद्यालय, तासगाव

• Indexed/Abstracted B++ with ISI/PA 2.76 by INAC • ISO 9001:2015

ता. तासगाव, जि. सांगली



## लोकसंस्कृतीची आविष्कार रूपे





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# REPORT OF THE ACADEMIC AUDIT COMMITTEE

**1. College Name:** Jaysingpur College, Jaysingpur. JAYSINGPUR

**Address:** Jaysingpur, Tal. : Shirol Dist : Kolhapur. 416 101

**Year of Establishment:** 1964

**Telephone: STD Code:** 2322225382

**Government Approval No:** Gen/Affil/9660

**Date:** 28-10-1964

**Fax:**

**E Mail ID:** jspcollegejsp@gmail.com

**Web Site:** www.jaysingpurcollege.edu.in

**Type of Institute / College:** CO-Education

**Location:** Rural

**Status of University affiliation:**

**UGC 2F Approval:** Yes

**UGC 12B Approval:** Yes

**NAAC Accreditation year & Grade:** NAAC Grade A 28-OCT-21 - 27-OCT-26

**NBA Accreditation year & Grade:**

**NIRF ranking:** NIRF 01-JAN-01 - 01-JAN-01

**Government approval status:** Aided/Grantable

**Name of the Principal of the College:** I/C PRINCIPAL Manisha Vinod Kale

## 2. Name Of Trust / Society

**Names of Trust/Society:** Anekant Education Society

**Address:** C/o Jaysingpur College, JAYSINGPUR-

**Year of establishment:** 1962

**Telephone Std Code:** 2322225381

**Fax:** 2322226481

**E mail ID:** jspcollegejsp@gmail.com

**Web site Address:** www.jaysingpurcollege.edu.in

### 3. Name Of Academic Audit Committee Members

Sr.No.	Name Of The Members	Designation	Address
1	Dr. Smt. L. B. Patil	Member	Smt. Mathubai Garware Kanya Mahavidhyalaya, Sangli
2	Prin. Dr. Smt. S. A. Naikwadi	Chairman	Krantisinh Nana Patil College, Walwa

### 4. Member who interacted with the committee

Sr.No.	Type of Member	Member Name	Remark
1	Principal	Prof. (Dr.) M. V. Kale	Principal and Chairmen AAA
2	IQAC Member	Prof. (Dr.) T. G. Ghatage	IQAC coordinator
3	Teaching Staff	Dr. V. B. Deokar	Convener AAA
4	Teaching Staff	Mrs. S. R. Nakate	Coordinator (AAA)
5	Teaching Staff	Dr. S. R. Sabale	IQAC member
6	Teaching Staff	Prof. (Dr.) N. L. Kadam	Vice-Principal
7	Non-Teaching Staff	Sh. Amit Magdum	Clerk
8	Non-Teaching Staff	Sh. S. A. Chaware	Sr. Clerk

**Details of programs offered by the College ( Give data for Current Academic Year)**

S.N	Program Level	Name of the Program / Course	Part	Duration	Entry Qualification	Medium of Instruction	Approval Type	Sanctioned /approved student strength	No. of students admitted	Govt. approval letter for college
1	Bachelor Degree	BACHELOR OF ARTS	2	3		Marathi	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
2	Bachelor Degree	BACHELOR OF ARTS	1	3		Marathi	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
3	Bachelor Degree	BACHELOR OF ARTS	3	3		Marathi	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
4	Bachelor Degree	BACHELOR OF ARTS	3	3		Marathi	Unaided/Non-Grantable	120	27	NGC/2017/(102/17)MC4 -23/6/2017
5	Bachelor Degree	BACHELOR OF ARTS	2	3		Marathi	Unaided/Non-Grantable	120	113	NGC/2017/(102/17)MC4 -23/06/2017
6	Bachelor Degree	BACHELOR OF ARTS	1	3		Marathi	Unaided/Non-Grantable	120	0	NGC/2010/(226/10)MC4 -14/7/2010
7	Bachelor Degree	BACHELOR OF ARTS	1	3		Marathi	Permanent Non-Grantable	120	123	Ref.No.Gen/Aff/31946-7/5 /1964
8	Bachelor Degree	BACHELOR OF COMMERCE	1	3		Marathi	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
9	Bachelor Degree	BACHELOR OF COMMERCE	2	3		Marathi	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
10	Bachelor Degree	BACHELOR OF COMMERCE	3	3		Marathi	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
11	Bachelor Degree	BACHELOR OF COMMERCE	1	3		Marathi	Unaided/Non-Grantable	120	126	NGC/2010/(226/10)MC4 -14/7/2010
12	Bachelor Degree	BACHELOR OF SCIENCE	3	3		English	Unaided/Non-Grantable	120	115	NGC/2017/(102/17)MC4 -23/6/2017
13	Bachelor Degree	BACHELOR OF SCIENCE	1	3		English	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
14	Bachelor Degree	BACHELOR OF SCIENCE	2	3		English	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
15	Bachelor Degree	BACHELOR OF SCIENCE	3	3		English	Aided/Grant able	120	120	Ref.No.Gen/Aff/31946-7/5 /1964
16	Bachelor Degree	BACHELOR OF SCIENCE	2	3		English	Unaided/Non-Grantable	120	105	NGC/2017/(102/17)MC4 -23/6/2017

17	Bachelor Degree	BACHELOR OF SCIENCE	1	3		English	Unaided/Non-Grantable	120	40	NGC/2010/(226/10)MC4-14/7/2010
18	Bachelor Degree	BACHELOR OF COMPUTER APPLICATION	1	3		English	Unaided/Non-Grantable	80	43	NGC/2008/(215/08)MC3-19/6/2008
19	Bachelor Degree	BACHELOR OF COMPUTER APPLICATION	2	3		English	Unaided/Non-Grantable	80	21	NGC/2007/(113/07)MC3-14/6/2007
20	Bachelor Degree	BACHELOR OF COMPUTER APPLICATION	3	3		English	Unaided/Non-Grantable	80	42	NGC/2007/(113/07)MC3-14/6/2007
21	Bachelor Degree	BACHELOR OF COMPUTER SCIENCE	3	3		English	Unaided/Non-Grantable	80	63	NGC/2007/(113/07)MC3-14/6/2007
22	Bachelor Degree	BACHELOR OF COMPUTER SCIENCE	1	3		English	Unaided/Non-Grantable	80	44	NGC/2007/(113/07)MC3-14/6/2007
23	Bachelor Degree	BACHELOR OF COMPUTER SCIENCE	2	3		English	Unaided/Non-Grantable	80	62	NGC/2007/(113/07)MC3-14/6/2007
24	Master Degree	MASTER OF ARTS	1	2		Marathi	Permanent Non-Grantable	50	11	PG/BUTR/MA/7424-2206/1981
25	Master Degree	MASTER OF ARTS	2	2		Hindi	Permanent Non-Grantable	50	21	NGC/2010/(225/10)MC4-14/7/2010
26	Master Degree	MASTER OF ARTS	2	2		Marathi	Unaided/Non-Grantable	50	13	PG/BUTR/MA/7424-2206/1981
27	Master Degree	MASTER OF ARTS	1	2		Hindi	Permanent Non-Grantable	50	14	NGC/2010/(225/10)MC4-14/7/2010
28	Master Degree	MASTER OF ARTS	1	2		Marathi	Permanent Non-Grantable	50	16	SU/IT/10/15193,22/03/1988
29	Master Degree	MASTER OF ARTS	2	2		Marathi	Permanent Non-Grantable	50	23	SU/IT/10/15193,22/03/1988
30	Master Degree	MASTER OF COMMERCE	1	2		English	Permanent Non-Grantable	50	50	NGC/2009/(171/09)MC4-14/07/2009
31	Master Degree	MASTER OF COMMERCE	2	2		English	Permanent Non-Grantable	50	51	NGC/2018/(102/18)MC4-15/06/2018
32	Master Degree	MASTER OF COMMERCE	2	2		English	Permanent Non-Grantable	50	51	NGC/2009/(171/09)MC4-14/07/2009
33	Master Degree	MASTER OF COMMERCE	1	2		English	Permanent Non-Grantable	50	83	NGC/2018/(102/18)MC4-15/06/2018
34	Master Degree	MASTER OF COMMERCE	1	2		English	Permanent Non-Grantable	50	50	NGC/2009/(171/09)MC4-14/07/2009

35	Master Degree	MASTER OF SCIENCE	1	2		English	Permanent Non-Grantable	20	22	NGC/2016/(103/16)MC4-4/7/2016
36	Master Degree	MASTER OF SCIENCE	1	2		English	Permanent Non-Grantable	20	22	NGC/2010/(225/10)MC4-14/7/2010
37	Master Degree	MASTER OF SCIENCE	2	2		English	Permanent Non-Grantable	20	22	NGC/2010/(225/10)MC4-14/7/2010
38	Master Degree	MASTER OF SCIENCE	2	2		English	Permanent Non-Grantable	20	25	NGC/2016/(103/16)MC4-4/7/2016
39	Master Degree	MASTER OF SCIENCE	1	2		English	Permanent Non-Grantable	20	22	NGC/2019/(131/19)MC4-15/06/2019
40	Master Degree	MASTER OF SCIENCE	2	2		English	Permanent Non-Grantable	20	20	NGC/2019/(131/19)MC4-15/06/2019
41	B.Voc	B.Voc. Printing & Publishing.	1	3		Marathi	Permanent Non-Grantable	50	4	NGC/2014/(202/14)MC4-18/07/2017
42	B.Voc	B.Voc. Printing & Publishing.	2	3		Marathi	Permanent Non-Grantable	50	20	NGC/2014/(202/14)MC4-18/07/2017
43	B.Voc	B.Voc. Printing & Publishing.	3	3		Marathi	Permanent Non-Grantable	50	26	NGC/2014/(202/14)MC4-18/07/2017
44	B.Voc	B.Voc. Automobile	1	3		Marathi	Permanent Non-Grantable	50	12	NGC/2014/(202/14)MC4-18/07/2017
45	B.Voc	B.Voc. Automobile	2	3		Marathi	Permanent Non-Grantable	50	12	NGC/2014/(202/14)MC4-18/07/2017
46	B.Voc	B.Voc. Automobile	3	3		Marathi	Permanent Non-Grantable	50	7	NGC/2014/(202/14)MC4-18/07/2017

<b>Does the College offer Self-Financed Program</b>	<b>No</b>	<b>0</b>
<b>New programs introduced in the college during the years, if any</b>	<b>No</b>	<b>0</b>



## List the Academic departments

Faculty / Branches	Name of the Department	UG	PG	Research
Science and Technology	GEOGRAPHY	Yes	No	No
Science and Technology	MATHS	Yes	No	Yes
Science and Technology	STATISTICS	Yes	No	Yes
Science and Technology	BOTANY	Yes	No	Yes
Science and Technology	CHEMISTRY	Yes	Yes	Yes
Science and Technology	ZOOLOGY	Yes	No	Yes
Science and Technology	PHYSICS	Yes	No	Yes
Science and Technology	Food-science and Quality Control	Yes	No	No
Science and Technology	B.C.S.	Yes	No	No
Commerce and Management	Commerce	Yes	Yes	Yes
Commerce and Management	B.C.A.	Yes	No	No
Humanities	ENGLISH	Yes	No	No
Humanities	ECONOMICS	Yes	Yes	No
Humanities	EDUCATION	Yes	No	No
Humanities	HISTORY	Yes	No	No
Humanities	MARATHI	Yes	Yes	Yes
Humanities	HINDI	Yes	Yes	Yes
Interdisciplinary Studies	B.Voc. Automobile	Yes	No	No
Interdisciplinary Studies	B.Voc. Printing and Publishing	Yes	No	No

**Furnish the number of the students admitted to the college during the last Five academic years.  
(Including Grantable & Non Grantable)**

Categories	UG														
	Year 1			Year 2			Year 3			Year 4			Year 5		
	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans
GEN/OPEN	195	128	0	204	92	0	149	77	0	75	150	0	141	178	0
SC	155	75	0	165	60	0	175	78	0	164	68	0	170	92	0
ST	0	1	0	0	0	0	0	0	0	3	0	0	2	0	0
OBC	172	74	0	160	84	0	149	78	0	127	71	0	169	78	0
VJ(A)	37	9	0	53	18	0	51	17	0	44	23	0	44	18	0
NT(B)	49	14	0	0	0	0	47	15	0	34	17	0	41	16	0
NT(C)	40	17	0	48	20	0	0	0	0	36	16	0	39	10	0
NT(D)	0	0	0	41	19	0	49	22	0	41	10	0	41	10	0
SEBC	170	116	0	204	88	0	229	137	0	263	138	0	270	150	0
EWS	159	116	0	203	87	0	191	132	0	146	128	0	110	110	0
MINORITY	150	85	0	139	116	0	130	89	0	168	96	0	139	73	0
<b>TOTAL</b>	<b>1127</b>	<b>635</b>	<b>0</b>	<b>1217</b>	<b>584</b>	<b>0</b>	<b>1170</b>	<b>645</b>	<b>0</b>	<b>1101</b>	<b>717</b>	<b>0</b>	<b>1166</b>	<b>735</b>	<b>0</b>

**Furnish the number of the students admitted to the college during the last Five academic years.  
(Including Grantable & Non Grantable)**

Categories	PG														
	Year 1			Year 2			Year 3			Year 4			Year 5		
	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans
GEN/OPEN	21	26	0	16	15	0	21	17	0	12	15	0	36	24	0
SC	24	29	0	21	28	0	28	27	0	41	35	0	27	39	0
ST	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0
OBC	17	26	0	31	31	0	28	28	0	25	28	0	27	33	0
VJ(A)	7	5	0	0	0	0	5	7	0	8	7	0	6	3	0
NT(B)	6	6	0	0	0	0	2	6	0	8	6	0	4	6	0
NT(C)	7	4	0	9	8	0	1	0	0	6	4	0	4	5	0
NT(D)	0	0	0	4	7	0	2	6	0	2	1	0	1	2	0
SEBC	16	24	0	17	20	0	33	38	0	41	34	0	44	44	0
EWS	16	24	0	15	18	0	33	39	0	43	33	0	37	45	0
MINORITY	18	51	0	27	81	0	30	74	0	24	41	0	28	41	0
TOTAL	132	195	0	140	208	0	183	242	0	210	204	0	218	246	0

**Details on Students Enrollment in the College during the Current Academic Year**

Type of Students	UG	PG	M.Phil	Ph.D.	Total Students
Students from the same state where the college is located	1901	464			2365
Students from other state of india	0	0			0
NRI Students	0	0			0
Foreign Students	0	0			0

## Course wise Faculty Information

Sr. No	Name of Faculty Member	Designation	Subject	Cast Category	Date of First Appointment	University Approval Letter No
1	Balasaheb Mahadeo Sargar	PROFESSOR (COLLEGE)	Chemistry and Chemical Engineering	Open	02-09-2003	I/T-5/VDK/RAM /5300 dated 22/08/2003
2	Dhanwanti Sunil Bamane					
3	Gurunath Hanmant Nikam	ASSTT. PROFESSOR	Chemistry and Chemical Engineering	Open	21-12-2010	
4	Jayvant Balavant Patade	ASSTT. PROFESSOR	Mathematic s	Open	01-08-2013	Aff.T.3/SDM40, 41,42/1990
5	Kabir Rajendra Kumbhar	ASSTT. PROFESSOR	Chemistry and Chemical Engineering	OBC	03-05-2020	Aff.T.3/SDM/43 ,44,45/1990
6	Khanderao Dnyandeo Khaldekar	ASSTT. PROFESSOR	Political Science	Open	03-05-2020	1990
7	Mahadeo Sukhadeo Suryawanshi	ASSOCIATE PROFESSOR	Physical Education	SCHDULE CASTE	01-09-2005	IT/T5/Ram/487 8 Date: 27 Jul 2005
8	Manisha Vinod Kale	I/C PRINCIPAL	Botany	Open	01-09-1990	Aff.T3/SDG/111 /620 dated 07/07/2021
9	Nandkumar Laxman Kadam		Commerce	Open		
10	Nitish Pandurang Sawant			SCHDULE CASTE		
11	Prabhakar Tanaji Mane	ASSTT. PROFESSOR	Economics	Open	30-12-1899	2966
12	Prashant Parshuram Chikode	ASSTT. PROFESSOR	Physics	Open	16-12-2000	11435
13	Pritam Raygonda Patil	ASSTT. PROFESSOR	Mathematic s	Open	03-05-2020	Aff.T.3/SDM/40 ,41,42/1990
14	Raju Dagadu Tasgaonkar	ASSOCIATE PROFESSOR	Chemistry and Chemical Engineering	SCHDULE CASTE	06-09-1990	Aff.T-3/SDG/4/ 2157 dated 30.10.2021 No.519
15	Ramesh Dilip Shinde	ASSTT. PROFESSOR	Statistics	Open	01-07-2010	Aff.T5./POWER /2966 Dated 05.06.2010

Sr. No	Name of Faculty Member	Designation	Subject	Cast Category	Date of First Appointment	University Approval Letter No
16	Ravindra Damodar Mane	ASSOCIATE PROFESSOR	Physics	SCHDULE CASTE	26-08-1993	Aff.T.3/STS/37 dated 11/10/2010
17	Rohant Siddhram Dhabbe	ASSTT. PROFESSOR	Chemistry and Chemical Engineering	Open	03-05-2020	T.3/SDM/43,44, 45/1990
18	SURAJ DHANYAKUMAR UMDALE	ASSTT. PROFESSOR	Botany	Open	03-05-2020	SU/affili./T.5/AV S/1449 A
19	Sachinkumar Ramagouda Patil	ASSTT. PROFESSOR	Zoology	Open	03-05-2020	SU/Affil./te.5/AVS/1469 A
20	Sandip Ravsaheb Sabale	ASSTT. PROFESSOR	Chemistry and Chemical Engineering	Open	01-01-2010	Ref.No.Aff.T3/STS/37/8332
21	Santoshkumar Balakrishna Daphalapurkar	ASSTT. PROFESSOR	Marathi	Open	21-12-2010	Aff.T5./POWER /10892 Dated 20.12.2010
22	Shridevi Rahul Nakate	ASSTT. PROFESSOR	Commerce	Open	03-05-2020	T.3/SDM/40,41, 42/1990
23	Smita Sunil Mahajan	ASSOCIATE PROFESSOR	Physics	Open	01-02-1993	
24	Sujata Gomtesh Patil	ASSTT. PROFESSOR	English and Linqistics	Open	03-05-2020	T.3/SDM/43,44, 45 File.no.0027
25	Sunanda Subhash Shelake	ASSTT. PROFESSOR	English and Linqistics	Open	01-07-2010	37
26	Sunil Babu Bansode			SCHDULE CASTE		
27	Suparna Gangadhar Sansuddi					
28	Suparna Gangadhar Sansuddi					
29	Suparna Gangadhar Sansuddi	ASSOCIATE PROFESSOR	Hindi	Open	01-12-1993	affi/T-3/VNC/FI. 207/6903 3/11/2001
30	Surat Annaso Manjare			Open		
31	Tushar Ganpatrao Ghatage	PROFESSOR (COLLEGE)	Geography and Geology	SCHDULE CASTE	04-02-2004	SU/Affi/T-3/F37 /8266 Date 4 Dec 2004
32	Vandana Bhagavan Devakar	ASSTT. PROFESSOR	Economics	Open	30-12-1899	Aff.T.3/STS/37



Sr. No	Name of Faculty Member	Designation	Subject	Cast Category	Date of First Appointment	University Approval Letter No
33	Vijaymala Virendra Chougule	ASSOCIATE PROFESSOR	Psychology	Open	21-06-1999	Aff.T.3/SRS/No .11371 dated 6 Feb 2016

## Research Information

1.	<b>No.of M.Phil and Ph.D Faculty Member.</b>	M.Phil	3
		Ph.D.	17
2.	<b>No.of Students Completed M.Phil/Ph.D under the guidance of faculty Members in College/Deparment in last one year</b>	M.Phil	0
		Ph.D.	28
3.	<b>Information Regarding Research Papers Presented/Published on University/State/National/International level in last</b>	National	34
		International	33
4.	<b>No.of Major/Minor research Projects in last one Academic Year</b>	In Progress	17
		Completed	17

## Infrastructure Information

Sr.No.	Criteria	Marks Allotted	Observation	Marks Obtained
	<b>Class rooms</b>			
1	Adequate well furnished class rooms as per University/Apex body norms ·Required No <b>23</b> ·Available No <b>26</b> ·√ <b>Adequate (10) Marks</b> ·Less than Adequate (5) Marks ·Not Adequate (0) Marks	10	Yes	10
2	Virtual Classroomwith utilization ·√ <b>If Yes (2) Marks</b> ·No (0) Marks	2	Yes	2
3	Number of classrooms with ICT Facilities ·√ <b>Above 50% facilities (5) Marks</b> ·More than 25% facilities (3) Marks ·More than 10 % (2) Marks	5	Yes	5
	<b>Laboratories</b>			
1	No. and Size of Laboratories as per University Norms/Apex body ·Required No <b>40</b> ·Available No <b>40</b> ·√ <b>Adequate (5) Marks</b> ·Less than Adequate (3) Marks ·Not Adequate (0) Marks	5	Yes	5
2	Laboratory equipmentsavailable as per University /Apex body norms ·√ <b>Adequate (5) Marks</b> ·Less than Adequate (3) Marks ·Not Adequate (0) Marks	5	Yes	5
3	Computers availableas per University/Apex body Norms ·√ <b>Adequate (5) Marks</b> ·Less than Adequate (3) Marks ·Not Adequate (0) Marks	5	Yes	5
	<b>Library</b>			
1	Books in the library (1:5 Students: Books) (For Professional Course, as decided by the apex bodies) ·√ <b>A) Reference Text Books (3) Marks</b> ·√ <b>B) Periodicals (1) Marks</b> ·√ <b>C) News papers (1) Marks</b>	5	Yes	5
2	Journals ·√ <b>i. International (Two each) (2) Marks</b> ·√ <b>ii. National (Two each) (2) Marks</b> ·√ <b>iii. E journals (Two each) (1) Marks</b>	5	Yes	5
3	Digital Library Facilities: (E Journals /CD's/ DVD's/ Infinite/ Delnet etc. ) ·√ <input type="checkbox"/> <b>Adequate (5) Marks</b> · <input type="checkbox"/> Sufficient (3) Marks · <input type="checkbox"/> Insufficient (0) Marks	5	Yes	5
4	- ·√ <b>Internet Facility provided to staff &amp; utilization (2) Marks</b>	2	Yes	2

5	- ·√ <b>Internet Facility for student with time table &amp; utilization (2) Marks</b>	2	Yes	2
6	- ·√ <b>Book Bank Facility (2) Marks</b>	2	Yes	2
7	Library is automated ·√ <b>Fully automated (5) Marks</b> ·Partially automated (3) Marks	5	Yes	5
8	Reading Room ·√ <b>A) Student (3) Marks</b> ·√ <b>B) Faculty (1) Marks</b>	4	Yes	4
9	Budget allocated for purchase of books and journals during the year ·√ <b>A) 2% or more than 2% of total budget excluding salary (3) Marks</b> ·B) Up to 2% of total budget excluding salary (1) Marks	3	Yes	3
	<b>Faculty</b>			
1	No. of required Teaching Faculty ·A. 100% Appointment- (14) Marks ·B. 76% to 99% Appointment- (10) Marks ·√ <b>C. 51% to 75% Appointment (8) Marks</b> ·D. Below 50% Appointment- (0) Marks	14	Yes	8
2	- ·√ <b>Faculties deputed / sponsored for the improvement of academic qualification during last year. (3) Marks</b>	3	Yes	3
	<b>Sports</b>			
1	Gymkhana (with All Facilities) ·√ <b>A) Separate Room – (2) Marks</b> ·√ <b>B) Indoor - (2) Marks</b> ·√ <b>C) Outdoor (2) Marks</b>	6	Yes	6
2	Well Equipped Playground ·√ <b>A) Own - (4) Marks</b> ·B) Rented - (2) Marks ·C) On contract basis (1) Marks	4	Yes	4
	<b>Curricular and extracurricular activities</b>			
1	- ·√ <b>1. Separate room for N.S.S. (2) Marks</b> ·√ <b>2. Separate room for N.C.C (2) Marks</b>	4	Yes	4
2	Facilities for extracurricular & Cultural ·√ <b>Activities (4) Marks</b> ·Adequate (3) Marks ·Sufficient (2) Marks	4	Yes	4

**Laboratory and Laboratory equipments are not applicable to the college/Department, then consider 90 Marks for input and convert it accordingly**

**Grade :-**

81% and Above = A+

71% to 80% = A

61% to 70% = B

51% to 60% = C

50% and Below = D

**Total Marks :- 100.00**

**Mark's of obtained :- 94.00**

**Percentage Of marks :- 94.00%**

**Grade :- A+**

## B:Process (300 Marks)

Sr.No.	Criteria	Marks Allotted	Observation	Marks Obtained
	<b>Teaching-Learning and Evaluation -</b>			
1	The institution assesses the learning levels of the students, after admission and organizes special programs for advanced learners and slow learners <ul style="list-style-type: none"> <li>·√ <b>Advanced Learners Program : (5) Marks</b></li> <li>·√ <b>Slow Learners Program : (5) Marks</b></li> </ul>	10	Yes	10
2	Student centric methods, such as experiential learning, participative learning and problem solving methodologies etc. are used for enhancing learning experiences (02 Marks for each method –	30	Yes	30
3	Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc <ul style="list-style-type: none"> <li>·√ <b>96 % to 100% Teachers (20) Marks</b></li> <li>·76 % to 95 % Teachers (15) Marks</li> <li>·51% to 75 % Teachers (10) Marks</li> <li>·26 % to 50 % Teachers (5) Marks</li> <li>·25 % &amp; Less Teachers (2) Marks</li> </ul>	20	Yes	20
4	Ratio of mentor to students for academic and stress related issues (Total Teacher : Total Students) (Mentor : Mentee) <ul style="list-style-type: none"> <li>·√ <b>Mentor: Mentee Ratio (1:50) - (5) Marks</b></li> <li>·Mentor: Mentee Ratio (1:75) - (3) Marks</li> <li>·Mentor: Mentee Ratio (1:100 &amp; Above) - (2) Marks</li> </ul>	5	Yes	5
5	Number of capability enhancement and development schemes  <ul style="list-style-type: none"> <li>·A. Guidance for competitive examinations 2</li> <li>·B. Career Counseling 4</li> <li>·C. Soft skill development 3</li> <li>·D. Remedial coaching 1</li> <li>·E. Language lab 1</li> <li>·F. Bridge courses</li> <li>·G. Yoga and Meditation 1</li> <li>·H. Personal Counseling 1</li> <li>·I. Brain Storming 1</li> <li>·J. Any other <b>Karmeer Kuoshalya Kendra skill and value added-08</b></li> </ul> <ul style="list-style-type: none"> <li>·√ <b>10 or more of the above (20) Marks</b></li> <li>·Any 6 of the above (16) Marks</li> <li>·Any 5 of the above (12) Marks</li> <li>·Any 4 of the above (8) Marks</li> <li>·Any 3 of the above (4) Marks</li> </ul>	20	Yes	20
6	The Institution ensures effective curriculum delivery through a well planned and documented process <ul style="list-style-type: none"> <li>·√ <input type="checkbox"/> <b>Teaching Plan – (2) Marks</b></li> <li>·√ <input type="checkbox"/> <b>Departmental meeting record for distribution of workload, timetable etc.- (1) Marks</b></li> <li>·√ <input type="checkbox"/> <b>Feedback- (2) Marks</b></li> </ul>	5	Yes	5
7	Augmentation of Physical Infrastructure like classrooms, laboratories, library, computer equipments, etc. during the year	5	Yes	5

8	Upgradation on Laboratory equipments during the year	5	Yes	5
9	Expenditure for purchase of books & Journals, CD's DVD's etc. during the year.	3	Yes	3
10	Expenditure for e-journals and online library during the year.	2	Yes	2
11	New Courses introduced of the total number of courses across all Programs offered during the year. ·√ <b>Above 5 (10) Marks</b> ·Between 3 to 5 (5) Marks ·Below 3 (3) Marks	10	Yes	10
12	Number of value-added courses imparting transferable and life skills offered during the year ·√ <b>100% Departments with at least one Value added Course (20) Marks</b> ·76 % to 95 % (15) Marks ·51% to 75 % (10) Marks ·26 % to 50 % (5) Marks ·25 % & below (2) Marks	20	Yes	20
13	Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge ·√ <input type="checkbox"/> <b>Established Incubation centre - (3) Marks</b> ·√ <input type="checkbox"/> <b>Institution has created an eco system and Other initiatives for creation and transfer of knowledge - (2) Marks</b>	5	Yes	5
14	Number of functional MoUs with institutions of National, International importance, other Universities, Industries, Corporate Houses etc. during the year (1 Mark for one functional MoU ) (Maximum 10 Marks) ·MoUs with institutions of national, international importance <b>12</b> ·MoUs with Other Universities <b>1</b> ·MoUs with Industries & Corporate Houses <b>1</b>	10	Yes	10
15	Number of linkages for faculty exchange, student exchange, internship, field trip, onthe-job training, research, etc during the year (1 Mark for each activity) ·Number of linkages for faculty exchange <b>8</b> ·Number of linkages for student exchange <b>10</b> ·Number of linkages for internship <b>10</b> ·Number of linkages for field trip <b>10</b> ·Number of linkages for on-the-job training <b>2</b> ·Number of linkages for research etc <b>14</b>	10	Yes	10
16	Percentage of students undertaking field projects / internships ·√ <b>76% to 100% (10) Marks</b> ·51% to 75% (5) Marks ·1% to 50% (3) Marks	10	Yes	10
17	Participation of College in different sports events of the university during last year. (Per Sport activity 1 Mark)	10	Yes	1
18	Organization & Participation Technical Quiz / Seminar / Paper presentation /Project competition / Cultural events during last year (Per Event 1 Mark)	10	Yes	10
19	Number of extension and outreach programs conducted in collaboration with industry, community and Non - Government Organizations through NSS/NCC/Red cross/YRC etc., during the year (Number of extension and outreach programs conducted) (1 Mark per activity)	10	Yes	10



20	Percentage of students participating in extension activities with Government Organizations, Non-Government Organizations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year ·1% to 25% (4) Marks ·26 % to 50% (10) Marks ·√ <b>51 to 75% (12) Marks</b> ·76% to 100% (15) Marks	15	Yes	12
21	Use of Learning Management System	5	Yes	5
22	Contribution in Lead College Scheme ·√ <b>By college as Participant (5) Marks</b> ·By College as Conducting authority (3) Marks	5	Yes	5
23	Contribution in SUK Journals	5	No	0
24	No. of Faculty Members assisted for university assessment Total Answer book by each faculty member ·√ <b>Assessed more than 50% their students admitted in college (5) Marks</b> ·Assessed less than 50% their students admitted in college (3) Marks ·Assessed exactly admitted students in their college (2) Marks	5	Yes	5
25	Participation in Cultural Programme ·√ <b>International Level/National Level (3) Marks</b> ·√ <b>State Level &amp; University Level (2) Marks</b>	5	Yes	5
26	Participation of University sponsored schemes at college level	5	Yes	5
	<b>Research -</b>			
1	Financial Assistance provided from college to faculty for research	5	Yes	5
2	Organizing workshops / seminars for inculcating research habits amongst teachers	5	Yes	5
3	Incubation centers in the Institutions	3	Yes	3
4	Leave and other incentives provided to teachers for research	3	Yes	3
5	The teachers benefited under FIP scheme of UGC during last three year.	5	Yes	5
6	Workshops / seminars organized during last three years for inculcating research habits amongst students	3	Yes	3
7	Research competitions, quiz etc. organized for students during last three years	5	Yes	5
8	Motivation for participation to students in research events like Avishkar etc.	3	Yes	3
9	Financial assistants provided to students for research activities from the institution	5	Yes	5
10	Participation in SUK sponsor research Scheme	5	No	0
11	Prospective Plans achieved by the College	2	Yes	2
	<b>Sports -</b>			
1	Sports Scholarship / Financial assistance provided to students.	3	Yes	3
2	Extra coaching provided to sportsman for particular Sports.	3	Yes	3
3	Financial assistant for dietary food, travelling etc. to sports students.	3	No	0
4	Organized workshops / Seminars for sports students.	2	Yes	2

**Grade :-**  
81% and Above = A+  
71% to 80% = A  
61% to 70% = B  
51% to 60% = C  
50% and Below = D

<b>Total Marks :-</b>	300.00
<b>Mark's of obtained :-</b>	275.00
<b>Percentage Of marks :-</b>	91.67%
<b>Grade :-</b>	A+

## C:Output (100 Marks)

Sr.No.	Criteria	Marks Allotted	Observation	Marks Obtained
1	<p>Average result of final year of last year.</p> <ul style="list-style-type: none"> <li>·√ <b>91% to 100% Result (10) Marks</b></li> <li>·81% to 90 % Result (8) Marks</li> <li>·71% to 80% Result (6) Marks</li> <li>·61% to 70% Result (4) Marks</li> <li>·60% &amp; Below Result (2) Marks</li> </ul>	10	Yes	10
2	<p>No. of students passed in first class and above in final year(last year)</p> <ul style="list-style-type: none"> <li>·√ <b>71% to 100 % (5) Marks</b></li> <li>·51% to 70 % (3) Marks</li> <li>·26% to 50 % (2) Marks</li> <li>·25% to 1 % (1) Marks</li> </ul>	5	Yes	5
3	<p>No. of students in University merit list in final year (last year) (1 Mark for each student in Merit List) (Maximum 5 Marks)</p>	5	Yes	5
4	<p>Percentage of student progression to higher education (previous graduating batch)</p> <p>A. UG to PG/            B. PG to M. Phil./Ph. D:            C. PhD to Post doctoral:</p> <ul style="list-style-type: none"> <li>·61% to 100% (5) Marks</li> <li>·41% to 60% (4) Marks</li> <li>·√ <b>21% to 40% (3) Marks</b></li> <li>·20% &amp; Less (2) Marks</li> </ul>	5	Yes	3
5	<p>Percentage of students qualifying in state/ national/ international level examinations during the year (e.g.: NET/SLET/GATE/ GMAT/ CAT/ GRE/TOEFL/Civil Services/State government examinations)</p> <ul style="list-style-type: none"> <li>·No of appeared students 6</li> <li>·No of Qualified students 2</li> <li>·√ <b>Above 2% (of appeared students) (5) Marks</b></li> <li>·Less than 2% (of appeared students)- (2) Marks</li> </ul>	5	Yes	5
6	<p>Percentage of placement of outgoing students during the last year Name of the employer with contact details Number of students placed</p> <p>Name of the employer with contact details</p> <p>Number of students placed</p> <ul style="list-style-type: none"> <li>·31 % To 100% (5) Marks</li> <li>·21 to 30% (3) Marks</li> <li>·11 to 20 % (2) Marks</li> <li>·√ <b>1 to 10% (1) Marks</b></li> </ul>	5	Yes	1
7	<p>Number of research papers published in the Journals notified on UGC website during the years (ISSN Only-  <b>(Total Papers ÷ Total Teachers) ×100</b></p> <ul style="list-style-type: none"> <li>·No of Paper published <b>28</b></li> <li>·√ <b>Per teacher Three Papers-76 % to 100 % (10) Marks</b></li> <li>·Per teacher Two Papers - 51% to 75 % (8) Marks</li> <li>·Per teacher One Paper - 26 % to 50 % (5) Marks</li> <li>·Per teacher Below One Paper – 1% to 25% (2) Marks</li> </ul>	10	Yes	10

8	Books and chapters in edited volumes / books published, and papers in national / international conference-proceedings per teacher during the year (ISBN / ISSN Only) -Number of papers Published in Proceeding during Year:- ( 1 Mark per Paper, Maximum 5 Marks) <b>6</b> -Number of Books Published during Year :- (1 Mark Per Book, Maximum 5 Marks) <b>5</b> -Chapters in books Published during Year :- ( 0.5 Mark Per Chapter, Maximum 5 Marks) <b>5</b>	15	Yes	13
9	No. of faculty members presented papers in symposium / workshop / conference / seminar in last year.(1 Mark per Paper, Maximum 5 Marks)	5	Yes	5
10	No. of Faculties contributed as resource persons at QIP/symposium /workshop / conference / seminar in last year. (1 Mark per Resource Person, Maximum 5 Marks)	5	Yes	5
11	No. of Students Completed M. Phil/Ph. D under the guidance of faculty Members in College. (1 Mark per Student, Maximum 5 Marks)	5	Yes	4
12	No. of Major/Minor Research Projects undertaken by faculty. (1 Mark per Project, Maximum 5 Marks)	5	Yes	5
13	Number of awards and recognition received by faculty from Government /recognized bodies during the year (1 Mark per Award/Recognitions) Total Number of Awards & Recognitions :	5	Yes	5
14	Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level etc. (award for a team event should be counted as one) during the year -International (Sports/ Cultural) (3) Marks -√ <b>National (Sports/ Cultural) (2) Marks</b>	5	Yes	2
15	Sports Scholarship received by the college during last year.	5	No	0
16	Percentage of students benefitted by Vocational Education and Training (VET)/Skill education/professional education during the year -51 to 100% (5) Marks -√ <b>26 to 50% (3) Marks</b> -1% to 25 % (2) Marks	5	Yes	3

**Grade :-**

81% and Above = A+

71% to 80% = A

61% to 70% = B

51% to 60% = C

50% and Below = D

**Total Marks :-** 100.00

**Mark's of obtained :-** 81.00

**Percentage Of marks :-** 81.00%

**Grade :-** A+

  
22/02/2022

Dr. Smt. L. B. Patil

**Member**

  
22/02/2022

**Chairman**

Prin. Dr. Smt. S. A. Naikwadi





Anant Education Society's

**JAYSINGPUR COLLEGE JAYSINGPUR**

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Email: [iqacjspcollege@gmail.com](mailto:iqacjspcollege@gmail.com)

- **FRESH PROGRAMMES / COURSES UNDER NSFQ FOR THE YEAR 2020-21**

&

- **CERTIFICATE COURSES UNDER KARMAVEER KOUSHALYA KENDRA**



Affiliated to Shivaji University, Kolhapur &  
UGC sponsored under NSQF

# Analytical Instrumentation for Quality Control and Assurance

2020-21



## DEPARTMENT OF CHEMISTRY JAYSINGPUR COLLEGE, JAYSINGPUR



- ▮ Affiliated to Shivaji University, Kolhapur
- ▮ Reaccredited at 'A' Grade (NAAC)

- ▮ Jain Mirority College
- ▮ DST - FIST [Level - I] Sponsored



Estd: 1962  
NAAC 'A' Grade

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004 MAHARASHTRA

PHONE: IPBX - 2609000 FAX: 0091-0231-2601533 & 0091-0231-692333

DLI: 02312609691, 2609135

Website: www.shivajiu.ac.in E-mail: affiliation@shivajiu.ac.in

Website Content: (1) Affiliation → Affiliation T2 Circulars (2) Affiliation → Affiliation T2 Information Lists

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४ महाराष्ट्र

दूरध्यानी ई-विद्यापीठ - २६ नं. १००, पिन - ४१६ ००४ ०२३१ २६०१५३३ व ४१६ ०२२९ ६९२३३३

संस्थाना टी २ विभाग वॉट्स व्हाट्सपी ४१ - २३१ २६०१५३३, २६०१५३३

ज.क्र. संस्थाना/टी-२/B.Voc/२०२०-२१/

No 0 0 4 1 1

दि

15 JAN 2021

प्रति,

१. प्राचार्य डॉ. एस. एच. सावंत संत गजानन महाविद्यालय कॉलेज ऑफ इमिनिअरिज, शिवाजी, महागाव, ता. गडहिंग्लज, जि. कोल्हापूर फोन नं. ०२३२०-२४५५८९ मो. नं.	(अध्यक्ष)	२. डॉ. के. एस. ओझा कॉम्प्युटर सायन्स अधिविभाग शिवाजी विद्यापीठ, कोल्हापूर फोन.नं. २०३१-२६०९३४३ मो. नं. ९८५७७६६६६०	(सदस्या)
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विषय : शैक्षणिक वर्ष २०२०-२१ पासून प्राथमिक संलग्नीकरणाच्या मान्यतेसाठी संलग्नीत महाविद्यालये / संस्थांकडून विद्यापीठ अनुदान आयोगाकडून बी.व्होक/कम्युनिटी कॉलेज/एनएसक्युएफ योजनेतर्गत प्राप्त प्रस्तावान्वये नियुक्त स्थानिक चौकशी समितीबाबत.

सरोवरा/महोदया,

उपरोक्त विषयास अनुसरून आपणास आदेशान्वये कळविण्यात येते की, खाली नमूद केलेल्या महाविद्यालया/संस्थेच्या नावाराने उल्लेखित प्रस्तावासंदर्भात चौकशी करून अहवाल सादर करण्यासाठी आपली स्थानिक चौकशी समिती नियुक्त करण्यात आली आहे.

संस्था/महाविद्यालयाचे नाव	संलग्नीकरण प्रकार	पाठ्यक्रम
जयसिंगपूर महाविद्यालय, जयसिंगपूर, ता. शिरोळ, जि. कोल्हापूर. फोन नं. ०२३२२-२२५ ३८१/४८१ मो. ९४२२५९२१३९	Primary Affiliation	B.Voc. Under NSQF Certificate Course (6 months) Analytical Instrumentation for Quality Control and Assurance (20)

कृपया सादर प्रस्तावासंदर्भात महाविद्यालय भेटीची तारीख समिती अध्यक्षांनी स्वतः सादर निविदात करून ती सर्व सदस्य व संबंधित महाविद्यालयाच्या प्राचार्यांना कळवावी व समितीला चौकशी अहवाल सादर करून विद्यापीठ कार्यालयात सादर करावा. या अंमलबजावणीवर पुढील कार्यवाही अवलंबून असल्याने तातडीने कार्यवाही होणे आवश्यक आहे.

प्रस्तुत प्रस्तावास अनुसरून करावयाच्या कार्यवाहीच्या संदर्भात समिती सदस्यांनी कृपया खालील बाबी विचारात घ्याव्यात.

१. स्थानिक चौकशी समिती अहवालनामची नमूद केलेल्या सुचनांचे महाविद्यालयाचे प्राचार्य व समिती अध्यक्ष/सदस्यांनी अवलोकन करून योग्य ती कार्यवाही करावी.
  २. महाविद्यालयाने विद्यापीठाकडे सादर केलेल्या प्रस्ताव प्रकारानुसार समितीने आपला अहवाल विचारणीत विद्यापीठाकडे सादर करावा.
  ३. समितीमधील अध्यक्ष अथवा सदस्य सादर समितीवर काम करण्यास असमर्थ असतील तर संबंधितांनी विद्यापीठ कार्यालयास याबाबत सकारण भ्रष्टाचारे/ई-गेलवारे तऱ्हेत कळवावे. यानुसार नवीन सदस्य अथवा अध्यक्ष यांचे नामनिर्देशन करून दिले जाईल.
- वरील बाबी विचारात घेऊन समिती अध्यक्षांनी निविदात केलेल्या तारखेच्या संबंधित महाविद्यालयाना भेटी देऊन अहवाल सादर विद्यापीठाकडे पाठवून सहकार्य करावे अशी पुनःच्य विनंती करण्यात येत आहे.



## Approval of fresh programmes / courses under NSQF for the year 2020-21

message

nsqfugc2020@gmail.com <nsqfugc2020@gmail.com>  
 To: jspcollegejsp@gmail.com

Wed, Sep 23, 2020 at 5:09 PM

Dear Sir/Madam,

This is with reference to your application for running skill-based programmes / courses. I am directed to convey that your institution may run the following fresh programmes / courses under National Skills Qualifications Framework (NSQF) during the academic session 2020 - 2021:

Programme/s	Trade/Course
B.VOC Degree	Food Processing/ Dairy Technology
Certificate	Instrumentation/Analytical Instrumentation for Quality Control and Assurance
Certificate	IT/ITES/Office Automation and E-Commerce

The institution must adhere to the following terms and conditions:

1. The institution shall run the courses in accordance with the provisions of the UGC Guidelines for Providing Skill-based Education under National Skills Qualifications Framework (NSQF).
2. The institution shall meet the requirements of infrastructure and laboratory facilities for running the skill-based courses.
3. If the institution is recommended for running skill-based courses in the fields like medicine, law etc., it shall meet the parameters specified by the concerned regulatory bodies / professional councils.
4. The courses will be offered on regular mode only. The institution shall not run the courses on online / distance education mode and through franchise arrangements.
5. The institution shall furnish details regarding students admitted (course-wise) for the forthcoming academic session on the online portal by 31.10.2020. The link to the portal is <https://nsqf.ugc.ac.in/>

With regards,

Yours faithfully,

(Dr. Mriganka Sekhar Sama)  
 (Education Officer)

Jaysingpur College  
 Jaysingpur, Dist. Kolhapur - 415 101

# Jaysingpur College, Jaysingpur

NAAC Accredited at 'A' grade

Certificate course in  
Analytical Instrumentation for  
Quality Control and Assurance

Photo

Admission Form-2020-21

1) Name of the Student:

2) Class:

3) Faculty:

4) Address:

5) Date of birth:

6) Mobile Number:

7) Aadhaar Number:

8) Email ID:

9) Roll Number:

Coordinator Signature

Student Signature



*Ashant Education Society's*

**Jaysingpur College**

**Jaysingpur**

Affiliated to Shivaji University, Kolhapur  
Accredited 'A' grade by NAAC  
DST-FIST (level-1) sponsored

A certificate Course in

**Analytical  
Instrumentation for  
Quality Control and  
Assurance**

Sanctioned by UGC-New Delhi  
Approved by Shivaji University, Kolhapur

## Certificate

This is to certify that, Mr. Omkar V. Chinchawade of Jaysingpur College, Jaysingpur has completed a certificate course in Analytical Instrumentation for Quality Control and Assurance organized by Department of Chemistry, Jaysingpur College Jaysingpur (Maharashtra) from 16<sup>th</sup> September 2021 to 30<sup>th</sup> September 2021. During the course they experienced the hands-on training on HPLC, FTIR, PL, UV-Vis, AAS, Densitometer, Calibration of instruments as well as Regulatory affairs and ICH guideline required in Pharma Industry.

Dr. R. S. Dhabbe  
Coordinator

Dr. S. R. Sabale  
Coordinator DST-FIST

Prof. R. D. Tasgaonkar  
HOD

Anekant Education Society's

Jaysingpur College, Jaysingpur

NAAC Accredited at 'A' grade

Certificate course in  
Analytical Instrumentation for  
Quality Control and Assurance

Admission Form-2020-21



1) Name of the Student: Sammed Mahavir Kalyani

2) Class: MSc - II

3) Faculty: Dr S. R. Sabale

4) Address: A/P - chipri

5) Date of birth: 06/05/1998

6) Mobile Number: 3070981008

7) Aadhaar Number: 5418 2051 0372

8) Email ID: sammedkalyani1998@gmail.com

9) Roll Number: 19

Coordinator Signature

  
Student Signature



Jaysingpur College, Jaysingpur

NAAC Accredited at 'A' grade

Certificate course in  
Analytical Instrumentation for  
Quality Control and Assurance

Admission Form-2020-21



1) Name of the Student: Chinchawade Omkar Vijay

2) Class: M.Sc II

3) Faculty: Analytical Chemistry

4) Address: A/P Shirati 416103

Tal Shirati  
Dis - Kolhapur

5) Date of birth:

13 - 11 - 1998

6) Mobile Number: 7385205407

7) Aadhaar Number:- 4370 2683 9289

8) Email ID: omkarchinchawade7109@gmail.com

9) Roll Number: 410

Coordinator Signature

Student Signature

Jaysingpur College, Jaysingpur

NAAC Accredited at 'A' grade

Certificate course in  
Analytical Instrumentation for  
Quality Control and Assurance

Admission Form-2020-21



1) Name of the Student: Sherikar Vaibhav Prakash.

2) Class: M.Sc - II

3) Faculty: Analytical Chemistry.

4) Address: A/P - Mangaon (pin-416118)  
Tal - Hatkangale, Dist - Kolhapur.

5) Date of birth: 18 - Aug - 1998

6) Mobile Number: 8805706287

7) Aadhaar Number: 9730 9326 7855

8) Email ID: Sherikarvaibhav1808@gmail.com.

9) Roll Number: 41

Coordinator Signature

Student Signature

Jaysingpur College, Jaysingpur

NAAC Accredited at 'A' grade

Certificate course in  
Analytical Instrumentation for  
Quality Control and Assurance

Admission Form-2020-21



- 1) Name of the Student: Danwade Ramiraj Yasin
- 2) Class: M.Sc. II
- 3) Faculty: Analytical
- 4) Address: A/p Jambhali Tal - Shiral Dist - Kolhapur
- 5) Date of birth: 22/01/1998
- 6) Mobile Number: 7721021052
- 7) Aadhaar Number: 352599335268
- 8) Email ID: ramiraj97447@gmail.com
- 9) Roll Number: 37

Coordinator Signature

  
Student Signature

# Jaysingpur College, Jaysingpur

NAAC Accredited at 'A' grade

Certificate course in  
Analytical Instrumentation for  
Quality Control and Assurance



## Admission Form-2020-21

- 1) Name of the Student: Patil Prajyot Sunil
- 2) Class: M.Sc II
- 3) Faculty: Analytical
- 4) Address: A/P Umatawad Tal. Shirol Dist. Kolhapur
- 5) Date of birth: 28/10/1997
- 6) Mobile Number: 8928285221
- 7) Aadhaar Number: 762553556486
- 8) Email ID: prajyotpatil47@gmail.com
- 9) Roll Number: 38

Coordinator Signature

Student Signature

Anekan Education Society's

Jaysingpur College, Jaysingpur

NAAC Accredited at 'A' grade

Certificate course in  
Analytical Instrumentation for  
Quality Control and Assurance

Admission Form-2020-21



1) Name of the Student: Magdum Vishwajeet Vasant

2) Class: M-sc II

3) Faculty: Organic

4) Address: A/P Bromhanal, Tal. Palur, Dist. Sangli

5) Date of birth: 13-04-1999

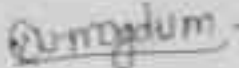
6) Mobile Number: 9096454562

7) Aadhaar Number: 575258894713

8) Email ID: vishwajeetmagdum555@gmail.com

9) Roll Number: 18

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Sammed · M · Kaljani

Roll No - 19

M.Sc. II (Organic Chemistry)

classmate

date 7/10/21

Page

1) Which of the following is not chemical change.

A) Souring of milk

B) Rusting of iron

C) Sublimation of iodine

D) Pass of carbon dioxide through lime water

2) How many unpaired electrons are there in Ni

A) 0

B) 2

C) 4

D) 8

3) Element X is strongly electropositive and Y is strongly electronegative. Both are univalent. The compound formed would be

A)  $X + Y^-$

B)  $X^- + Y^+$

C)  $X^- + Y$

D)  $X \rightarrow Y$

A.  $X + Y$

4) Amongst the following the molecule is linear or

- A)  $\text{CO}_2$
- B)  $\text{NO}_2$
- C)  $\text{SO}_2$
- D)  $\text{ClO}_2$

5) Petrol is mixture of

- A) Alkenes
- B) Alkanes
- C) Alkynes
- D) Aromatic hydrocarbons

6) House hold gaseous fuel ( $\text{C}_2\text{H}_6$ ) contains

- A)  $\text{CH}_4$
- B)  $\text{C}_2\text{H}_4$
- C)  $\text{C}_2\text{H}_2$
- D)  $\text{C}_4\text{H}_{10}$

7) which of the following compound will exhibit ~~as~~ cis-trans (geometrical) isomerism

- A) 2-Butene
- B) 2-Butyne
- C) 2-Butanol
- D) Butanal

8) which one of the following compound is the most acidic.

- A) Acetic Acid
- B) Ethanol
- C) Monochloro Acetic Acid
- D) Trichloro acetic acid

9) Aldehydes can be distinguished from ketone by using

- A) Schiff's reagent
- B) conc.  $\text{H}_2\text{SO}_4$
- C) Anhy.  $\text{ZnCl}_2$
- D) Resorcinol.

10) which of the following group is ortho para directing.

- A)  $-NO_2$
- B)  $-SO_3H$
- C)  $-COOH$
- D)  $-OH$

11) what is HPLC ?

- A) High performance liquid chromatography
- B) High percentage liquid chromatography
- C) High priced liquid chromatography
- D) High permeable liquid chromatography

12) which of the following is not a common safety rule ?

- A) you should never mix acid with base
- B) you should tie back your long hair
- C) you should add water to acid
- D) All of the are valid safety rules

13) Qualitative results refer to

- A) results that can be observed during an experiment
- B) result that are difficult to observe during an experiment.
- C) results that require numerical data.
- D) none of these is correct.

14) Accuracy is defined as

- A) A measure of how often an experimental result can be repeated.
- B) The closeness of a measured value to the real value.
- C) The number of significant figures used in a measurement.
- D) None of these.

15) what is the range of UV-visible spectrum

- A) 200 to 800 nm
- B) 200 to 400 nm
- C) 200 to 1200 nm
- D) 200 to 1000 nm.



16) what percent of atoms of magnesium in a mass of exactly 24 amu?

- A) 100%
- B) 70%
- C) 30%
- D) 0%

17) what is the oxidation no. of Manganese in  $KMnO_4$

- A) +7
- B) +4
- C) +6
- D) +5

18) what is the oxidation no. of Manganese

18) The chemical name of  $Fe_2O_3$  is

- A) Iron oxide
- B) Iron (III) oxide
- C) Iron (II) oxide
- D) Iron (IV) oxide

19) The percent composition of aluminium (III) hydroxide

- A) 50%
- B) 25%
- C) 14%
- D) None of the above

20) How many molecules are there in 48 gm of aluminium fluoride.

- A)  $2.28 \times 10^{27}$  molecules
- B)  $3.23 \times 10^{28}$  molecules
- C)  $1.12 \times 10^{29}$  molecules
- D) none of these is correct.

21) chromatography is used to

- A) separate two or more compounds based on their polarity
- B) separate two or more compound based on their masses
- C) separate two or more compounds based on how strongly they interact with compound
- D) More than one of the above.

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① Which of the following is not chemical change?

- A. Souring of milk
- B. Rusting of iron
- C. Sublimation of iodine
- D. Pass of carbon dioxide through lime water

→ C. Sublimation of iodine

② How many unpaired electrons are there in  $Ni^{+}$ ?

- A. 0
- B. 2
- C. 4
- D. 8

→ B. 2

③ Element X is strongly electropositive and Y is strongly electronegative both are univalent the compound formed would be

- A.  $X+Y$
- B.  $X-Y$
- C.  $X_2Y_2$
- D.  $X_2Y$

A.  $X+Y$

Q2 Amongst the following the molecule that has linear ab

- A.  $C_{60}$
- B.  $NO_2$
- C.  $SO_2$
- D.  $ClO_2$

Q3 Petrol is mixture of

- A. Alkanes
- B. Alkenes
- C. Alkyne
- D. Aromatic hydrocarbons

Q4 Most held gaseous fuel (LPG) consists

- A.  $CH_4$
- B.  $C_2H_2$
- C.  $C_2H_4$
- D.  $C_4H_{10}$

Q5 Which of the following compound will exhibit cis-trans (geometrical) is

- A. 2-Butene
- B. 2-Butyne
- C. 2-Butanol
- D. 1-Butanol

D. Butanol  
→ A 2-Butene

Q6 Which one of the following compound is the most acidic

- A. Acetic acid
- B. Ethanol
- C. Monochloro acetic acid
- D. Trichloro acetic acid

Q7 Aldehydes can be distinguished from ketones by using

- A. Schiff's reagent
- B. Conc.  $H_2SO_4$
- C. Anby  $ZnCl_2$
- D. Reimer-Tiemann

Q8 Which of the following group is ortho-para directing

- A.  $-NO_2$
- B.  $-SO_2H$
- C.  $-COOH$
- D.  $-OH$



11) What is HPLC?

- A. High performance liquid Chromatography
- B. High performance liquid Chromatography
- C. High performance liquid Chromatography
- D. High Performance liquid Chromatography

→ High performance liquid Chromatography

12) Which of the following is not a rule?

- A. You should never mix acid base
- B. You should be back log in
- C. You should add water before
- D. All of the are valid safety

→ C. You should add water to acid

13) Qualitative test results refers to...

- A. Results that can be observed during an
- B. Results that are difficult to observe
- C. Results that require numerical
- D. None of these are correct

→ Results that are difficult to observe during experiment

14) Accuracy is defined as

- A. A measure of how close the measured value is to the true value
- B. The closeness of measured value to real value
- C. The number of significant figures used
- D. None of these

→ The closeness of measured value to real value

15) What is the range of UV-Visible Spectrum.

- A. 200 - 800 nm
- B. 200 - 1200 nm
- C. 200 - 400 nm
- D. 200 - 1000 nm

→ A. 200 - 800 nm

16) What percent of atom of magnesium has mass exactly of 24 amu?

- A. 100%
- B. 70%
- C. 50%
- D. 0%

- 1) What is HPLC [A]
- a) High performance liquid chromatography
  - b) High percentage liquid chromatography
  - c) High speed liquid chromatography
  - d) High permeable liquid chromatography.
- 2) What is range of UV-Violet spectrum [A]
- a) 200-500 nm
  - b) 200-1200 nm
  - c) 200-400 nm
  - d) 200-1000 nm
- 3) petrol is mixture of [B]
- a) alkenes
  - b) Alkanes
  - c) alkynes
  - d) Aromatic hydrocarbon
- 4) House hold gaseous fuel (LPG) is mainly contains [D]
- a)  $C_2H_4$
  - b)  $C_2H_2$
  - c)  $C_3H_8$
  - d)  $C_4H_{10}$
- 5) which compound damage the ozone layer [C]
- a) oxides
  - b) sulphur
  - c) chlorine
  - d) Nitrate
- 6) who was invented X-rays W.C. Roentgen in 1895
- 7) The reagent used in distinguish between 2-hexyne and 1-hexyne is  $Hg, KMnO_4, Br_2$  in aq. sol.

8) what is the molecular weight of  $H_2SO_4$   
a) 98  
b) 96  
c) 97  
d) none

9) molecular formula of glucose  
a)  $C_6H_{12}O_6$   
b)  $C_6H_{12}O_5$   
c)  $C_6H_{10}O_6$   
d)  $C_6H_{12}O_7$

10) which is the following Lewis base  
a)  $CH_3^-$   
b)  $Ag^+$   
c)  $Ca^{2+}$   
d) Fats

11) what is pigment of present in plant leaves  
a) Hemoglobin  
b) Porphyrin  
c) Chlorophyll  
d) none

12) toxic example of inert gas  
a)  $Xe$   
b)  $Ar$   
c)  $Ne$   
d) none

13) which acid is known as King of chemicals  
a)  $H_2SO_4$   
b)  $HNO_3$   
c)  $H_2CO_3$   
d)  $H_3PO_4$

14) what is mean of reduction  
a) loss of oxygen  
b) gain of oxygen  
c) loss of hydrogen  
d) gain of hydrogen

15) main element of organic compound  
a) Carbon  
b) Oxygen  
c) Hydrogen  
d) Nitrogen

16) example of binary compound  
a) Sodium carbonate  
b) Sodium chloride  
c) Sodium bicarbonate  
d) Sodium sulphate

17) How many valence electrons in Nitrogen  
a) 5  
b) 6  
c) 7  
d) 8

18) what is the oxidation state of Mn in  $K_2MnO_4$   
a) +7  
b) +6  
c) +4  
d) +5

19) using phenolphthalein as an indicator, which of the following titration is possible  
a) oxalic acid and sodium hydroxide  
b) oxalic acid and calcium hydroxide  
c) hydrochloric acid and sodium hydroxide  
d) sulphuric acid and sodium carbonate

20) what is a same chemical name of  $Fe_2O_3$   
a) iron oxide  
b) iron (III) oxide  
c) iron (II) oxide  
d) iron (IV) oxide

21) what is pH  
a) conc. of  $H^+$  ions  
b) conc. of  $OH^-$  ions  
c) both a and b  
d) none of the above

22) which of the following is not chemical change  
a) curdling of milk  
b) burning of iron  
c) sublimation of iodine  
d) rusting of iron

23) Among the following the molecule that is linear is

- a)  $\text{CO}_2$   
c)  $\text{SO}_2$

- b)  $\text{NO}_2$   
d)  $\text{ClO}_2$

24) An Aldehyde can be distinguished from ketones by using

- a) Schiff reagent  
c)  $\text{Anly} \cdot \text{ZnCl}_2$

- b)  $\text{conc. H}_2\text{SO}_4$   
d) Resorcinol

25) Which of the following compound is will exhibit as trans (geometrical) isomers

- a) 2-butene  
c) 2-butanone

- b) 2-butanol  
d) butanol

26) Which of the following group is ortho, para directing

- a)  $-\text{NO}_2$   
c)  $-\text{COOH}$

- b)  $-\text{SO}_3\text{H}$   
 d)  $-\text{OH}$

27) Which of the following compound is the most acidic

- a) Acetic acid

- b) Ethanol

- c) Monochloroacetic acid

- d) Trichloroacetic acid

28)

- 1) Which of the following is not chemical change?
- (A) curdling of milk
  - (B) rusting of iron
  - (C) sublimation of iodine
  - (D) Tearing of clothes through hand water

Ans -> (C) Sublimation of iodine

- 2) How many unpaired electrons are there in  $U^{3+}$ ?
- (A) 0
  - (B) 1
  - (C) 2
  - (D) 8

Ans -> (B) 2

3) Element X is electropositive & Y is electronegative. Both are univalent. The compound formed is?

- (A)  $X+Y$
- (B)  $X-Y$
- (C)  $X-Y$
- (D)  $X+Y$

Ans -> (A)  $X+Y$

4) Among the following the molecule that is linear is?

- (A)  $CO_2$
- (B)  $NO_2$
- (C)  $SO_2$
- (D)  $ClO_2$

Ans -> (A)  $CO_2$

5) Benzene is a mixture of

- (A) Alkenes
- (B) Alkynes
- (C) Alkanes
- (D) Aromatic hydrocarbon

what is HPLC ?

High performance liquid chromatography.

High performance liquid chromatography

High speed liquid chromatography

High pressure liquid chromatography

8) High performance liquid chromatography.

Which of the following is not laboratory safety rule?

A) You should never mix acid with base

B) You should never be you back long hat

C) You should never add acid to water

D) All of the above are valid rules.

9) You should add water to acid

10) Quantitative result refers to ?

A) Results that can be observed during an experiment

B) Results that are difficult to observe during experiment

C) Results that require numerical data.

D) None of the is correct.

11) Results that are difficult to observe during experiment

12) Accuracy is defined as ?

A) A measure of how experiment value can be repeated.

B) The closeness of measured value to real one

C) The no. of significant figures used in measurement

D) None of these.

13) The closeness of measured value to real value.



- 17) What is range of visible spectrum?
- (A) 200-800 nm      (B) 800-1200 nm  
 (C) 300-400 nm      (D) 900-1000 nm

→ (A) 200-800 nm.

- 18) What percentage of atoms of magnesium is diamagnetic?
- (A) 100%      (B) 70%  
 (C) 30%      (D) 10%

→ (D) 10%.

- 19) What is the oxidation no. of manganese in  $K_2MnO_4$ ?
- (A) +2      (B) +4  
 (C) +6      (D) +7

→ (D) +7

- 20) The chemical name of  $Fe_2O_3$  is

- (A) iron oxide      (B) iron (II) oxide  
 (C) iron (III) oxide      (D) iron (IV) oxide

→ (C) iron (III) oxide

- 21) The percentage composition of aluminium hydroxide is
- (A) 50%      (B) 20%  
 (C) 10%      (D) None of these

→ (D) None of these

- 22) How many molecules are there in 1 gram aluminium hydroxide?
- (A)  $1.2 \times 10^{23}$  molecules      (B)  $3.3 \times 10^{23}$  molecules

1) Which of the following is not chemical change

A) Souring of milk

B) Rusting of iron.

C) Sublimation of iodine.

D) Pass of carbon dioxide through lime water.

(Substance phase from  
a mass directly into gas)

It is physical change

2) How many unpaired electrons are there in  $Ni^{2+}$

A) 0

B) 2

C) 4

D) 8

3) Element X is strongly electropositive and Y is strongly electronegative. Both are univalent. The compound formed would be

A)  $X^+Y^-$

B)  $X^-Y^+$

C)  $X^-Y^-$

D)  $X^+Y^+$

(Because electropositive element form cation  
& electronegative form anion)

Both are univalent

4) Amongst the following the molecule that is linear is

A)  $CO_2$

B)  $NO_2$

C)  $SO_2$

D)  $ClO_2$

(because sp hybridisation around carbon atom)

5) Petrol is mixture of

A) Alkenes

B) Alkanes

C) Alkynes

D) Aromatic hydrocarbons

6) House hold gaseous fuel (LPG) mainly contains

A)  $CH_4$

B)  $C_2H_2$

C)  $C_2H_4$

D)  $C_4H_{10}$

(mixture of butane and iso-butane)

7) which of the following compounds will exhibit cis-trans (geometrical) isomerism

A) 2-Butene

B) 2-Butyne

C) 2-Butanol

D) Butanal

(The compound with each doubly bonded carbon attached to two different groups exhibit G.I.)

The geometrical isomerism arise due to restriction of double bond

8) which one of the following compound is the most acidic

A) Acetic Acid

B) Ethanol

C) Monochloro Acetic Acid

D) Trichloro acetic acid

electron withdrawing group increases acidic character due to  $-I$  effect

9) Aldehydes can be distinguished from ketones by

A) Schiff's reagent

B) Conc.  $H_2SO_4$

C) Anhy.  $ZnCl_2$

D) Resorcinol

10) which of the following group is ortho, para directing

A)  $-NO_2$

B)  $-SO_3H$

C)  $-COOH$

D)  $-OH$

because resonance the electron density is more on ortho & para position

11) what is HPLC ?

- A) High performance liquid chromatography.
- B) High percentage liquid chromatography.
- C) High priced liquid chromatography.
- D) High permeable liquid chromatography.

12) which of the following is not a laboratory safety rule?

- A) you should never mix acid with bases.
- B) you should tie back your long hair.
- C) you should add water to acid.
- D) All of the are valid safety rules.

13) Qualitative results refers to

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- C) The number of significant figures used in measurement.
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15) what is the range of UV-visible spectrum.

- A) 200 - 800 nm
- B) 200 - 1200 nm
- C) 200 - 400 nm
- D) 200 - 1000 nm.

16) What percent of atoms of magnesium have a mass exactly 24 amu?

- A) 100%
- B) 70%
- C) 30%
- D) 10%

17) What is the oxidation no. of manganese in  $KMnO_4$ ?

- A) +7
- B) +4
- C) +6
- D) +5

oxidation of K is +1 & O is -2.  $KMnO_4$  is neutral  
So total charge on it is taken as zero  
hence o.n of Mn is +7

18) The chemical name of  $Fe_2O_3$  is

- A) iron oxide
- B) iron (II) oxide
- C) iron (III) oxide
- D) iron (IV) oxide

19) The percent composition of aluminium (III) hydroxide

mol. mass of  $\{Al(OH)_3\}$  Al = 26.98, H = 1.007 g & O = 15.999 g  
 $26.98 + 3(15.999) + 3(1.007)$   
 $= 78.00 \frac{g}{mol}$

- A) 50%
- B) 25%
- C) 14%
- D) None of the above

20) How many molecules are there in 45 gm of aluminium fluoride?

- A)  $2.28 \times 10^{27}$  molecules
- B)  $3.23 \times 10^{27}$  molecules
- C)  $1.12 \times 10^{29}$  molecules
- D) None of the above

Q1) what is molecular formula of Glucose

- a)  $C_6H_{12}O_6$
- b)  $C_6H_{12}O_5$
- c)  $C_6H_{12}O_7$
- d)  $C_6H_{12}O_8$

Q2) what is pigment present in the plant leaves

- a) Hemoglobin
- b) potassium
- c) chlorophyll
- d) none

Q3) which of the following is an example of inert gas

- a) Xe
- b) H
- c) C
- d) none

Q4) what is the molecular weight of  $H_2SO_4$

- a) 99
- b) 98
- c) 97
- d) none

Q5) which acid is known as king of chemicals

- a)  $H_2SO_4$
- b)  $H_2SO_3$
- c)  $HNO_3$
- d)  $HSCl$



Dinwade Kamajaya Rajin.

M.Sc B (Analytical)

Roll No. :- 31

DATE  
07/10/21

1. which of the following compound is the most acidic.

→ (D) Trichloro acetic acid

2. which of the following group is ortho, para directing

→ (D) -OH group

3. which of the following compound is which exhibit as trans (geometrical) isomers

→ (A) 2-butene

4. Aldehydes can be distinguished from ketones by using

→ (A) Schiff reagent

5. Among the following the molecule that is linear is:

→ (A)  $CO_2$

6. which of the following is not chemical change

→ (C) sublimation of iodine

7. what is pH.

→ (A) concentration of  $H^+$  ion.

8. what is chemical name of  $Fe_2O_3$

→ (C) Iron (III) oxide

9. using phenolphthalein as indicator, which of the following titration is possible.

→ (B) oxalic acid on sodium hydroxide.

10. how many unpaired electrons in  $Ni^{2+}$

→ (D) 2

11. what is the oxidation no. of Mn in.

→ (A) +7

10. Example of baking soda.

→ (A) sodium bicarbonate.

11. What is HPLC.

→ (A) High performance liquid chromatography.

12. What is range of UV-visible spectrum.

→ (A) 200-800 nm.

13. petrol is mixture of

→ (A) Aromatic hydrocarbon.

14. House hold gaseous fuel (LPG) is main

→ (A)  $C_3H_8$

15. which compound damage the ozone layer

→ (A) chlorine.

16. who was invented x-ray?

→ (A) H.C. Rontgen in 1895.

17. The reagent used in distinguishing between 2-hexyne and 1-hexyne

→ (A)  $AgNO_3$  in  $CCl_4$

18. main element of organic compound

(A) carbon.

19. what is mean of reduction.

→ (A) loss of oxygen.

20. which acid is known as king of acids

→ (A)  $H_2SO_4$ .

**Jaysingpur College, Jaysingpur**  
**Department of Zoology**  
**Certificate Course in Medical laboratory Technician**

**Paper I: Microbiology and Serology**

Topic 1: Microbiology

- a) Types of microorganisms, general characters of bacteria, fungi and viruses.
- b) Sterilization and disinfection Methods.
- c) Types of stains and staining procedures
- d) Study of common pathogens: Mycobacteria, Pseudomonas, Salmonella, Shigella and Vibrio etc.
- e) diagnostic bacteriology: Culture media, systematic grouping of pathogenic bacteria, identification of infectious agents, diagnosis of anaerobic infections, Character identification from common pathogenic bacteria
- f) Specimen collection, handling, transport, labelling and identification, septic transfer and disposal
- g) Introduction to parasitic fungi, specimen collection, lab diagnosis of mycotic infections, identification of parasites from Blood and stool
- h) Culture and sensitivity testing
- i) Types of antibiotics, general mechanism of action, operation of antibiotic discs

Topic 2: Serology

- a) Immunity, antigen-antibody reaction, allergy and autoimmunity
- b) Sero-diagnosis: Collection and preparation of sample, Widal test, pregnancy and HIV test
- c) Blood collection, use of anticoagulants, transportation of blood after collection
- d) Haemagglutination reactions, ABO and RH blood grouping, test cross matching, preparation of lab reagents in blood banks, regulations in blood banks
- e) Blood transfusion methods transfusion reaction hemolytic disease of newborn

**Paper II: Clinical pathology and Histology**

Topic 1: Clinical Pathology

- a) Components of blood and their functions, haemopoietic system of body and specimen collection for hematological studies
- b) Determination of haemoglobin content, total RBC, WBC and platelet count, ESR and calculation of red blood cell indices
- c) Examination of blood for parasites, peripheral blood smear examination, identification of anemia
- d) Bleeding time, clotting time and prothrombin time

- e) Routine examination of urine: physical, chemical and microscopic examination ,  
Rapid chemical test for urine
- f) Microscopic examination of semen, specimen collection, lab investigations for  
examinations for presence of semen, sperm motility and sperm count
- g) CSF collection serous fluid Synovial fluid gastric juice

Topic 2: Histology

- a) Clinical significance of histopathology
- b) study of common instruments in histology and their operation
- c) Tissue processing, staining and fundamentals of microscopy

### **Paper III: Clinical Biochemistry and Laboratory management**

#### Topic 1: Clinical Biochemistry

- a) Carbohydrates
- b) Proteins
- c) Enzymes
- d) Lipids
- e) Organ function Tests- Liver and Kidney
- f) Hormones

#### Topic 2: Laboratory management

- a) Study of Instruments - Principles of calorimetry, flame photometry and basic immunochemical techniques.
- b) Use of microscope
- c) Fundamentals of automation in clinical Laboratories
- d) Laboratory management- safety Regulation and good lab practices
- e) Quality control methods and maintenance of laboratory records,
- f) First-aid, correct practices of handling and disposal of biological material

### **Practical I: Microbiology and Serology**

- a) Introduction to common laboratory instruments- Colorimeter, spectrophotometer, pH meter, Microscope, Autoclave and Hot air oven
- b) Preparation of media, stains and reagents
- c) Monochrome staining
- d) Gram's staining
- e) Acid fast staining
- f) Culture and sensitivity testing
- g) Microscopic examination of stool
- h) Isolation of Fungi
- i) Blood group detection and cross matching of blood groups
- j) Serodiagnostic tests- Widal, VDRL, RA, Pregnancy test, HIV test

### **Practical II: Clinical pathology and Histology**

- a) Blood Collection
- b) Hemoglobin estimation
- c) RBC and WBC counting
- d) Estimation of ESR
- e) Examination of peripheral blood smear
- f) Urine Analysis- Physical, Chemical and microscopic examination
- g) Stool Examination
- h) Detection of bleeding and clotting time
- i) Preparation of stains and fixatives required for microtomy
- j) Collection and processing of tissue
- k) Tissue Processing by Microtechnique

### **Practical III: Clinical Biochemistry and Laboratory Management**

- a) Basic working of Lab instruments: Colorimeter, Spectrophotometer, pH Meter
- b) Preparation of serum and plasma
- c) Determination of Blood analytes- Glucose, Cholesterol, Lipids, Serum proteins, urea, creatinine
- d) Demonstration of abnormal constituents- Conjugated and non-conjugated bilirubin, Lipid profile
- e) Urine Analysis- Sugars, urea, creatinine, proteins, clearance test
- f) Estimation of serum enzymes- SGOT, SGPT
- g) Preparation of chromic acid and cleaning of glasswares
- h) Record writing and methodology of reporting.



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Department of Zoology  
Notice**

**Date: 26/12/2020**

All students of B. Sc III are hereby informed that your theory and practical lectures for **CMLT** course are scheduled from **Thursday 31/12/2020**. All students are notified that they must attend the lectures and practicals.

  
**Head  
Department of Zoology**

**Attendance Sheet**

B.Sc. III Zoology Year:- 2020-21

Name of the Teacher Miss. S. J. Patel

Roll No		31-12-20	01-01-21	05-01-21	07-01-21	11-01-21	12-01-21	13-01-21	18-01-21	19-01-21	20-01-21	21-01-21
2	*Pandare Kranti Kaikaso	P	P	P	A	P	P	P	A	P	P	P
3	*Naik Pooja Dattatray	P	P	P	P	A	P	P	P	P	P	A
4	*Jalpure Rupali Satish	P	P	P	P	P	P	A	P	P	P	P
5	*Danole Rutuwika Bapuso	P	P	A	P	P	P	P	P	P	P	P
6	*Anure Aishwarya Mahadev	P	P	P	P	A	P	P	P	P	P	P
18	*More Utkrasha Sambhaji	P	P	P	P	P	P	P	A	P	P	P
19	*Patil Pradnya Bajarang	P	P	P	P	A	P	P	P	P	P	P
20	Chougale Yogiraj Prakash	P	A	P	P	P	P	P	P	P	P	P
24	*Banne Rutuja Anil	P	P	P	P	P	P	P	A	P	P	P
27	*Patil Kavande Kiran Shrikant	A	P	P	P	P	P	P	P	P	P	P
29	Mathapati Ishwar Gurubasaya	P	P	P	A	P	P	P	P	P	P	P
98	*Inamdar Mariyam Jafarpasha	P	P	P	P	P	P	A	P	P	P	P
99	*Patel Babymariyam Sayyad	P	P	A	P	P	P	P	P	P	A	P
100	*Sabebwale Tayyaba Rafique	P	P	P	A	P	P	P	P	P	P	P
200	*Powar Pooja Shrikrishna	A	P	P	P	P	P	P	P	P	P	P

**Attendance Sheet**

B.Sc. III Zoology Year:- 2020-21

Name of the Teacher Dr. S. R. Patil

Roll No		25-01-21	27-01-21	28-01-21	29-01-21	30-01-21	01-02-21	03-02-21	04-02-21	05-02-21	06-02-21	08-02-21
2	*Pandare Kranti Kakaso	P	P	A	P	P	P	P	A	P	P	P
3	*Naik Ponja Dattatray	P	P	P	P	A	P	P	P	P	P	A
4	*Jaipure Rupali Satish	P	A	P	P	P	P	P	A	P	P	P
5	*Danole Rutuwika Bapuso	P	P	P	A	P	A	P	P	P	P	P
6	*Anure Aishwarya Mahudev	P	P	P	P	A	P	P	P	P	P	P
18	*More Utkrasha Sambhaji	P	P	A	P	P	P	P	P	P	P	P
19	*Patil Pradnya Bajarang	P	P	P	P	P	P	P	A	P	P	P
20	Chougule Yogiraj Prakash	P	P	P	A	P	P	P	P	P	P	P
24	*Banne Rutuja Anil	P	P	P	P	P	P	P	P	A	P	P
27	*Patil Kavande Kiran Shrikant	P	P	P	P	A	P	P	P	P	P	P
29	Mathapati Ishwar Gurubasaya	P	P	P	P	P	P	A	P	P	P	P
98	*Inandar Mariyam Jafarpasha	A	P	P	P	P	P	P	P	P	P	P
99	*Patel Babymariyam Sayyad	P	P	A	P	P	P	P	P	P	P	A
100	*Sahebwale Tayyaba Rafique	P	P	P	P	P	P	P	P	A	P	P
200	*Powar Pooja Sarikrishna	P	P	P	A	P	P	P	P	P	P	P

**Attendance Sheet**

B.Sc. III Zoology Year:- 2020-21

Name of the Teacher Miss. A. B. Dhandale

Roll No	09-02-21	10-02-21	11-02-21	12-02-21	13-02-21	15-02-21	16-02-21	17-02-21	18-02-21		
2	*Pandare Kranti Kakaso	P	P	P	P	A	P	P	P	P	
3	*Naik Pooja Dattatray	P	P	P	P	P	P	P	P	A	
4	*Jalpure Rupali Satish	P	P	P	A	P	P	P	P	P	
5	*Danole Rituwika Bapuso	P	P	P	A	P	P	P	P	P	
6	*Anure Aishwarya Mahadev	P	A	P	P	P	P	P	P	P	
18	*More Utkrasha Sambhaji	A	P	P	P	P	P	P	P	P	
19	*Patil Pradnya Bajarang	P	P	P	P	P	P	P	A	P	
20	Chougule Yogiraj Prakash	P	P	P	P	P	P	P	P	A	
24	*Banne Rituja Anil	P	P	P	P	A	P	P	P	P	
27	*Patil Kavande Kiran Shrikant	P	P	P	P	P	A	P	P	P	
29	Matiapati Ishwar Gumbasaya	P	P	A	P	P	P	P	P	P	
98	*Inamdar Mariyam Jafarpasha	A	P	P	P	P	P	P	P	P	
99	*Patel Bahyma:iyam Sayyad	P	P	P	A	P	P	P	P	P	
100	*Sahelwale Tayyaba Rafique	P	A	P	P	P	P	P	P	A	
200	*Powar Pooja Shrikrishna	A	P	P	P	P	P	P	P	P	

**Anekant Education Society's  
JAYSINGPUR COLLEGE JAYSINGPUR  
Department of Zoology  
Notice**

**Date: 12/02/2021**

All students of B. Sc III are hereby informed that your examination for CMLT course is scheduled from **15/02/2021 to 18/02/2021**. All students are notified that they must be present for exam.

The exam time table is as below.

Sr. no.	Date	Time	Theory/Practical
1	15/02/2021	11:00-12:00	Microbiology and serology
		1:00-2:00	Clinical pathology and histology
2	16/02/2021	11:00-12:00	Clinical biochemistry and laboratory management
3	17/02/2021	11:00-1:00	Microbiology and serology practical
		2:00-4:00	Clinical pathology and histology practical
4	18/02/2021	11:00-1:00	Clinical biochemistry and laboratory management practical

  
**Head**  
Department of Zoology





Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
**Certificate Course in Medical lab Technician**  
**2020-21**  
**Result**

Sr. No.	Name	T1	T2	T3	P1	P2	P3	Total	Percentage (%)
1	*Pandare Kranti Kakaso	48	47	46	86	90	91	408	90.66
2	*Naik Pooja Dattartray	47	46	45	90	85	83	396	88
3	*Jalpure Rupali Satish	46	42	43	80	80	79	370	82.22
4	*Danole Rutuwika Bapuso	46	45	44	90	91	88	404	89.77
5	*Anure Aishwarya M.	45	44	42	81	79	79	370	82.22
6	*More Utkrasha Sambhaji	48	47	47	90	91	89	412	91.55
7	*Patil Pradnya Bajarang	47	48	45	88	90	89	407	90.44
8	Chougule Yogiraj Prakash	47	46	47	90	89	87	406	90.22
9	*Banne Rutuja Anil	41	43	44	80	78	79	365	81.11
10	*Patil Kavande Kiran S.	40	39	41	83	80	79	362	80.44
11	Mathapati Ishwar G.	43	40	39	78	80	84	364	80.88
12	*Inamdar Mariyam J.	44	38	40	79	78	80	359	79.77
13	*Patel Babymariyam S.	43	42	39	79	80	81	364	80.88
14	*Sahebwale Tayyaba R.	44	42	40	78	82	85	371	82.44
15	*Powar Pooja Shrikrishna	41	40	38	81	80	79	349	79.77

  
**Head**  
 Department of Zoology



Anekant Education Society's

# JAYSINGPUR COLLEGE, JAYSINGPUR

! Affiliated to Shaik University, Kathapur  
! Accredited at A Grade (UAC)

! Jain Minority  
! DST - FIST (Level - II) Sponsor



## Karmaveer Koushalya Kendra

Skill Based Certificate Course  
2019-20

### CERTIFICATE

*This is to certify that*

Mr. / Miss Pandare Kranti Kakaso


\_\_\_\_\_ of Jaysingpur College, Jaysingpur has been satisfactorily completed

Skill Based Certificate Course in CMLT

during the Academic Year 2020 - 2021

Date: 25/02/2021

Place: Jaysingpur

  
COURSE COORDINATOR

  
DIRECTOR  
Karmaveer Koushalya Kendra

  
PRINCIPAL  
Jaysingpur College, Jaysingpur





Anekant Education Society's

# JAYSINGPUR COLLEGE, JAYSINGPUR

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Accredited at W Grade (NMAC)

Jain Minority  
DST - FST (Level - I) Sponsored



## Karmaveer Koushalya Kendra

### Skill Based Certificate Course 2019-20

# CERTIFICATE

*This is to certify that*

Mr. / Miss **Patil Pradnya Bajarang**

*of Jaysingpur College, Jaysingpur has been satisfactorily completed*

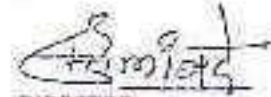
*Skill Based Certificate Course in* **CMLT**

*during the Academic Year* **2020 - 2021**

*Date:* 25/02/2021

*Place:* Jaysingpur

  
COURSE COORDINATOR

  
DIRECTOR

Karmaveer Koushalya Kendra

  
PRINCIPAL

Jaysingpur College, Jaysingpur

Anekant Education Society's  
**Jaysingpur College, Jaysingpur**



Accredited by NAAC with 'A' Grade

**Skill Development Program**  
**Certificate Course in Plant Tissue Culture**  
**(UGC-COC)**

**Department of Botany**

**June 2019**

## Aims & objectives

- 1 Expertise in the knowledge to set up a basic tissue culture laboratory
  - 2 Tissue culture facilities associated with industrial approach to develop plant nurseries to enhance the field of horticulture
  - 3 Expert technicians with skill and knowledge to operate tissue culture facilities in college and plant science laboratories
  - 4 To give basic quality education with commercial approach in the field of micropropagation
- Our thrust area is agriculture, horticulture, pharmaceuticals, industry and environment
- 5 To provide ample scope for industry and job training

## Syllabus

Sr.No.	Paper No.	Marks
1	Paper I Basics of Plant Tissue Culture	100
2	Paper II Techniques in Plant Tissue Culture	100
3	Paper III a) Practical based on theory	30
4	b) Work experience	30
5	c) Field project	40

### Paper I Basics of Plant Tissue Culture Section I

#### Unit No. 1 Organization of plant body

- 1.1 Typical structure of plant body
- 1.2 Habit
- 2 Underground- Rhizome, tuber, bulb
- 1.3 Study of underground modified organs
- 1.4 Internal organization of dicot and monocot stem
- 1.5 Meristematic tissue system
- 1.6 Normal secondary growth and periderm

#### Unit No. 2 Plant reproduction

- 2.1 Mode of reproduction
- 2.2 Types of reproduction
- 2.3 Development of male gametophyte
- 2.4 Development of female gametophyte

#### Unit No. 3 Developmental physiology



- 3.1 Characteristics of growth
- 3.2 Photoperiodism, Vernalization
- 3.3 Photosynthesis, respiration
- 3.4 Phytohormones
- 3.5 Seed dormancy
- 3.6 Seed germination

**Unit No. 4 Nutritional biology**

- 4.1 Role of water and mineral nutrition
- 4.2 Mineral nutrition
- 4.3 Ascent of sap

**Section II**

**Unit 5 History of plant tissue culture**

- 5.1 Introductory History
- 5.2 Concept of totipotency
- 5.3 Cyto-differentiation

**Unit 6 Plant tissue culture laboratory organization**

- 6.1 Laboratory lay out and work areas
- 6.2 Aseptic laboratory
- 6.3 Basic tools, glass goods, equipments and instruments

**Unit 7 Introduction to general techniques**

- 7.1 Culture medium and its preparation
- 7.2 Inoculation of explants
- 7.3 Incubation of culture

**Unit 8 Sterilization techniques**

- 8.1 Laboratory sterilization
- 8.2 Instrument sterilization
- 8.3 Media sterilization
- 8.4 Surface sterilization

**Paper II Techniques in plant tissue culture**

**Section I**

**Unit 1 Introduction to specific techniques**

- 1.1 Definition and importance of specific techniques

**Unit 2 Introduction to different media used with their composition**

- 2.1 M.S. Media
- 2.2 White media
- 2.3 Nitsch media
- 2.4 B-5 media
- 2.5 Mitra et.al. Media
- 2.6 Knudsen media



### **Unit 3 Callus culture technique I**

- 3.1 Introduction, History, Principle
- 3.2 General protocol
- 3.3 Mechanism of callus formation
- 3.4 Sub-culture of callus

### **Unit 4 Callus culture technique II**

- 4.1 Factors affecting callus culture
- 4.2 Morphology, internal structure in callus tissue
- 4.3 Applications and limitations

### **Section II**

### **Unit 5 Suspension culture technique I**

- 5.1 Introduction, history, principle
- 5.2 General account of suspension culture
- 5.3 Establishment of suspension culture

### **Unit 6 Suspension culture technique II**

- 6.1 Types of suspension culture
- 6.2 Measurement of growth in suspension culture
- 6.3 Synchronization
- 6.4 Importance and uses of suspension culture

### **Unit 7 In vitro regeneration I**

- 7.1 Introduction, history, principle
- 7.2 General account of organogenesis

### **Unit 8 In vitro regeneration II**

- 8.1 General protocol for organogenesis
- 8.2 Factors influencing organogenesis, mechanism of organ development
- 8.3 Applications
- 8.4 Limitations

### **Paper III**

#### **A) List of practicals-**

- 1 Study of meristem
- 2 Study of anatomy
- 3 Study of flower structure
- 4 Study of seed dormancy and viability
- 5 Study of laboratory Introduction
- 6 Study of instrumentation
- 7 Study of sterilization techniques
- 8 Study of media preparation technique
- 9 Study of callus culture technique
- 10 Study of suspension culture technique

## B) Work experience

- 1 Visit to tissue culture laboratory
- 2 Preparation of protocol for tissue culture technique
- 3 Information of tissue culture laboratory

## C) Project work/ Field work

### Nature of theory question paper (Total 100 marks)

- |                       |          |
|-----------------------|----------|
| 1 Multiple choice 10  | 20 marks |
| 2 Essay type question | 20 marks |
| 3 Essay type question | 20 marks |
| 4 Short notes         | 20 marks |
| 5 Brief questions     | 20 marks |

## 12. Course outcome

Students get self employed to raise their own nursery by micropropagation of plant tissue culture and skilled to operate tissue culture laboratory.

Hafe

**Co-ordinator**  
UGC Sponsored "Plant Tissue Culture"  
Jaysingpur College, Jaysingpur

Anekant Education Society's  
**JAYSINGPUR COLLEGE, JAYSINGPUR**

**B.Sc.III 2020-2021**

**DEPARTMENT OF Botany**

**UGC-COC Plant Tissue Culture**

**Student List**

<b>Sr.No.</b>	<b>Name of the Students</b>
1	Khadake Pratiksha Sukhadev
2	Bandgar Laxmi Popat
3	Patel Sifa Samiullah
4	Patel Muskan Basheer
5	Patil Saloni Nemgonda
6	Nadaf Sabiya Ayub
7	Patil Rutuja Rajgonda
8	Kamble Mohini Rajaram
9	Potdar Poonam Suresh
10	Narabal Divya Suresh
11	Patil Shraddha Sunil
12	Mane Nisha Uday
13	Kamble Mohini Rajkumar
14	Arage Shubham Ashok
15	Suryavanshi Kshitija Arjun
16	Kamble Onkar Dashrath
17	Patel Saba Pyresaheb
18	Bedage Megha Bhagvan

*Patel*  
**Co-ordinator**  
UGC-Sponsored-Plant Tissue Culture  
Jaysingpur College, Jaysingpur

॥ सिद्धिरनेकान्तात ॥

Estd. - June 1964

Anekant Education Society's

**JAYSINGPUR COLLEGE, JAYSINGPUR**

of Arts, Commerce, Science & Computer Science

Jaysingpur - 416 101 Dist. Kolhapur, Maharashtra State, India

AFFILIATED TO SHIVAJI UNIVERSITY, KOLHAPUR

ACCREDITED AT THE A\* LEVEL BY NAAC - UGC

Tel. :- (O) 225381 Tel./Fax 226481(R) 225181- ISD (0091) - STD (02322)

website - [www.jaysingpurcollege.in](http://www.jaysingpurcollege.in) e-mail - [jspcollegejsp@gmail.com](mailto:jspcollegejsp@gmail.com)



**Dr. R. R. Kumbhar**

Principal

M. A., M. Sc., Ph. D.

Ref. No: AES/JCJ/

Date:-26 / 02 /2020

## Appointment letter

To,

Dr. Vaishali S. Shinde


Department of Botany,

Jaysingpur College Jaysingpur

It is pleased to inform you that you are appointed as a lecturer for the Skill Based Certificate course in Plant Tissue Culture conducted by Karmaveer Koushalya Kendra, Jaysingpur College, Jaysingpur for the Academic year 2020-21 at Department of Botany on temporary basis.

Director,

Karmaveer Koushalya Kendra

  
Principal

Jaysingpur College, Jaysingpur





### 3. Time table

Time	FRIDAY	SATURDAY
7.30-8.15 am	(L)VSS	(L)VSS
8.15-9.00 am	(L)VSS	(L)VSS
9.45-10.30 pm	(L)VSS	(L)VSS
1.00-3.30 pm	(P)VSS	(P)VSS

L-Lecture, P-Practical, VSS- Dr. V. S. Shinde. Total workload= 07 per week

Shinde

**Co-ordinator**  
UGC-Sponsored-"Plant Tissue Culture"  
Jaysingpur College, Jaysingpur

#### 4. Syllabus Completion Report

##### Theory

Month	Unit No.	Topic taught	Teacher	Total Periods
August	1	Organization of plant body	Dr. V.S.Shinde	08
	2	Plant reproduction		
September	3	Developmental physiology		10
	4	Nutritional biology		
October	5	History of plant tissue culture		10
	6	Plant tissue culture laboratory organization		
November	7	Introduction to general techniques		12
	8	Sterilization techniques		
December	Paper II	Introduction to specific techniques		12
	1 2	Introduction to different media used with their composition		
January	3	Callus culture technique I		08
	4	Callus culture technique II		
February	5	Suspension culture technique I		08
	6	Suspension culture technique II		
March	7	In vitro regeneration I		12
	8	In vitro regeneration II		

##### Practical

Month	Unit No.	Topic taught	Teacher	Total Practical	Total Hours
November		1 Study of meristem 2 Study of anatomy 3 Study of flower structure	Dr. V.S.Shinde	3	12
December		4 Study of seed dormancy and viability 5 Study of laboratory introduction 6 Study of instrumentation Techniques		3	12

*Hale*

**Co-ordinator**  
UGC Sponsored "Plant Tissue Culture"  
Jaysingpur College, Jaysingpur



<b>January</b>	1	7 Study of sterilization 8 Study of media preparation technique 9 Study of callus culture technique 10 Study of suspension culture technique		5	20
<b>February</b>	2	<b>B) Work experience</b> 1 Visit to tissue culture laboratory 2 Preparation of protocol for tissue culture technique 3 Information of tissue culture laboratory		3	20
<b>March</b>	3	Examination			

## 12. Course outcome


Students get self employed to raise their own nursery by micropropagation of plant tissue culture and skilled to operate tissue culture laboratory.

Rafe

**Co-ordinator**  
UGC Sponsored-"Plant Tissue Culture"  
Jaysingpur College, Jaysingpur

Aneka Education Society's  
**JAYSINGPUR COLLEGE JAYSINGPUR**  
**COC Course in Plant Tissue Culture**  
**2020-21**  
**Result Analysis**

Sr. No.	Name of Student	Theory (200)		Practical	Total	Percentage	Grade
		I	II				
01	Muskan Basheer Patel	70	57	85	212	70.66	A+
02	Sifa Samiullah Patel	70	53	85	208	69	A+
03	Mohini Rajaram Kamble	Ab	Ab	Ab	Ab	Ab	Ab
04	Pooja Ramgonda Patil	70	70	85	225	75	A+
05	Poonam Suresh Potdar	Ab	Ab	Ab	Ab	Ab	Ab
06	Saloni Nemgonda Patil	80	61	80	221	73.66	A+
07	Narabal Divya Suresh	69	57	80	206	68.66	Ab
08	Shraddha Sunil Patil	Ab	Ab	Ab	Ab	Ab	Ab
09	Mane Nisha Uday	68	59	85	212	70.33	A+
10	Mohini Rajkumar Kamble	Ab	Ab	Ab	Ab	Ab	Ab
11	Shubham Ashok Arage	Ab	Ab	Ab	Ab	Ab	Ab
12	Laxmi Popat Bandgar	68	55	85	208	69	A+
13	Pratiksha Sukhadev Khadake	80	61	80	221	73.66	A+
14	Kshitija Arjun Suryavanshi	Ab	Ab	Ab	Ab	Ab	Ab
15	Sabiya Ayyub Nadaf	Ab	Ab	Ab	Ab	Ab	Ab
16	Onkar Dashrath Kamble	Ab	Ab	Ab	Ab	Ab	Ab
17	Rutuja Rajgonda Patil	Ab	Ab	Ab	Ab	Ab	Ab
18	Megha Bhagvan Bedage	Ab	Ab	Ab	Ab	Ab	Ab
19	Saba Pyresaheb Patel	Ab	Ab	Ab	Ab	Ab	Ab

  
**Co-ordinator**  
 UGC Sponsored "Plant Tissue Culture"  
 Jaysingpur College Jaysingpur

**Skill Development Program**  
**Certificate Course in Plant Tissue Culture**  
**(UGC-COC)**  
**Department of Botany**  
**2020-21**  
**Work done report**

During this academic year, 18 students were admitted for Plant tissue culture course. The course was run under UGC-COC certificate program. As per syllabus we completed two theory papers and one paper for practical. During the course we visited Oasis Biocontrol Lab. at Shirol. Students learned the techniques of tissue culture, hands on training, laboratory set up and all the equipments of tissue culture. They also learned the methods of sterilization and precautions, hardening method and plantation.

The examination was carried out in the month of March. All the students were passed with good marks. Out of 18 students six students were appeared for the final examination.

Overall the entire course was very fruitful for the students. They gained the basic techniques of plant tissue culture. Students get self employed to raise their own nursery by micropropagation of plant tissue culture and skilled to operate tissue culture laboratory and instruments.

gale


**Co-ordinator**  
UGC-Sponsored-"Plant Tissue Culture"  
Jaysingpur College, Jaysingpur



Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
Department of English  
Communication Skills in English  
Skill Based Certificate Course  
2020-21

**List of the Student**

Sr.No	Name of the Student	Class
01	Kamat Pranav Ananda	B.A.III
02	Kurane Mayuresh Milind	B.A.III
03	Kale Pratiksha Vinod	B.A.III
04	Gholap Rohit Rajendra	B.A.III
05	Kurdekar Chinmay Uday	B.A.III
06	Sutar Jyoti Chandrakant	B.A.III
07	Suryavanshi Rutuja Tatayaso	B.A.III
08	Gugade Pritee Kallappa	B.A.III
09	Kalkutgi Vaishnavi Sanjay	B.A.III
10	Kabade Shubham	B.A.III
11	Sularkar Gaurave	B.A.III

  
**Dr. Sunanda S. Shelake**  
M.A. Ph.D.  
Head  
Department of English,  
Jaysingpur College, Jaysingpur

15

UGC – Career Oriented course  
"Certificate Course in  
Communication Skills in English"  
**Communicative English**  
2011-2012

**SYLLABUS**

**Aims & Objectives:**

- i. To equip students with basic skills in English
- ii. To boost students for self reliant efforts to develop basic skills.
- iii. To develop self expression skills through speaking & participating.
- iv. To develop socializing skills.
- v. To develop stage courage & Group activity or team work skills.

**Paper I**

**Fundamentals of communicative English (Part I)**

- I. Introduction to English speech sounds. Difference between letters & sound correct & incorrect (Accepted & Unaccepted) and British & Indian pronunciation.
- II. Word formation – Affixation-suffixation compounding-Major & Minor, Conversions to Noun, Adjective verbs & Adverb Developing active vocabulary – English words for fruits, vegetables, animals, grocery food etc.
- III. Sentence formation: - Formation of Questions wh type, Yes/No. Type questions Use of passive voice in English
- IV. Use of Tense in writing & speech.

.....  
**Paper II**

**Fundamentals of communicative English (Part II)**

- Self Introduction: - Introduction of self, family (Parents, siblings), College, town/village.  
My ambitions – hobbies-interests etc.  
Strength & Weaknesses.
- Etiquettes & Manners:-  
Basic greeting: - What to wish, how to wish, when to wish and how to respond. Greeting-eating-meeting manners, grooming etiquettes.

Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of English  
**Communication Skills in English**  
**Skill Based Certificate Course**  
 2020-21  
**Time Table**

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11.30 am - 12.30 pm	Paper I K.S.P.	Paper I S.G.P	Paper III K.S.P	Paper III S.G.P	Paper II S.S.S	Paper II A.D.S

### Workload

Sr. No.	Name of the Teacher	Theory	Practical	Total
1	Mrs. S. G. Patil	5Credits	5Credits	10Credits
2	Dr.(Mrs) S.S. Shelake	3 Credits	3Credits	6Credits
3	Shri. K.S.Patil	5Credits	5Credits	10Credits
4	Shri. A.D.Shinde	2 Credits	2Credits	4Credits
	<b>Total</b>	15 Credits	15 Credits	30 Credits

Principal

Co-Ordinator

Dr. (Mrs.) S. S. Shelake



**Dr. Sunanda S. Shelake**  
M.A., Ph.D.

HEAD  
Department of English,  
Jaysingpur College, Jaysingpur






Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
Department of English  
Communication Skills in English  
Skill Based Certificate Course  
2020-21

**List of the Student**

Sr.No	Name of the Student	Class	Grade
01	Kamat Pranav Ananda	B.A.III	A
02	Kurane Mayuresh Milind	B.A.III	A
03	Kale Pratiksha Vinod	B.A.III	A
04	Gholap Rohit Rajendra	B.A.III	C
05	Kurdekar Chinmay Uday	B.A.III	A
06	Sutar Jyoti Chandrakant	B.A.III	B
07	Suryavanshi Rutuja Tatayaso	B.A.III	A
08	Gugade Pritee Kallappa	B.A.III	A
09	Kalkutgi Vaishnavi Sanjay	B.A.III	B
10	Kabade Shubham	B.A.III	A
11	Sularkar Gaurave	B.A.III	A

  
Dr. Sumande S. Shelake  
M.A. Ph.D.  
Department of English,  
Jaysingpur College, Jaysingpur

ANEKANT EDUCATION SOCIETY'S  
**JAYSINGPUR COLLEGE, JAYSINGPUR**



Naac Accredited By 'A' Grade

**Value Added Course**

**Certificate Course In Indian Constitution :Rights And  
Duties**

**By**

**Department Of Political Science**

**2020-21**

# Jaysingpur College Jaysingpur


Value Added Course 2020-2021

## Department of Political Science

Certificate Course in Indian Constitution: Rights and Duties

### List of Enrolled Students

Sr.No.	Name of the Student	Class
1	Nagarkar Shweta Kundan	B. A. III
2	Rajput Snehal Sanjay	B. A. III
3	Agalawane Shafiya Shabuddeen	B. A. III
4	Aiwale Aniket Popat	B. A. III
5	Shinde Shubham Akaram	B. A. III
6	Kinikar Sourabh Sukumar	B. A. III
7	Kamble Viraj Vasant	B. A. III
8	Torave Rohit Shankar	B. A. III
9	Koli Harshada Sanjaykumar	B. A. III
10	Sutar Monesh Vitthal	B. A. III
11	Nandiwale Sanjay Shivaji	B. A. III
12	Dudhale Suhas Shankar	B. A. III
13	Patil Abhijeet Baburao	B. A. III

  
Co-ordinator  
Dr. K.D. Khataelkar  
Head  
Dept. of Political Science

Principal


Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
Department of Political Science  
Value Added Course 2020-21  
**Certificate Course in Indian Constitution: Rights and Duties**

**Timetable**

Sr. No.	Day /Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	11.30am to 12.30pm	KDK	PAP	PAP	PAP	KDK	KDK
2	11.30am to 12.30pm	KDK	PAP	PAP	PAP	KDK	KDK

**Workload Distribution**

Sr.No.	Name of the Faculty	Period Allotted
1	Dr. K. D. Khaladkar	16
2	Dr. P. A. Powar	18
	Total =	34 hours

  
Coordinator  
Dr. K. D. Khaladkar  
Head  
Dept. of Political Science

Principal



Anekant Education Society's  
**Jaysingpur College, Jaysingpur**

Department of Political Science

Value Added Course 2020-21

**Certificate Course in Indian Constitution: Rights and Duties**

**Subject: Indian Constitution: Rights and Duties**

January 2021

**Attendance Sheet: 2020-21**

**Teacher Name:- Dr. K.D. Khaladkar**

Sr. No.	Date → Name of the Student	18/01/2021	22/01/2021	25/01/2021	25/01/2021	29/01/2021	30/01/2021											
1	Nagarkar Shweta Kundan	P	P	P	P	P	P											
2	Rajput Sneha Sanjay	P	P	P	P	P	P											
3	Agalawane Shafiya Shabuddeen	P	P	P	P	P	P											
4	Aiwale Aniket Popat	P	P	P	P	P	P											
5	Shinde Shubham Akaram	P	P	P	P	P	P											
6	Kinikar Sourabh Sukumar	P	P	P	P	P	P											
7	Kamble Viraj Vasant	P	P	P	P	P	P											
8	Torave Rohit Shunkar	P	P	P	P	P	P											
9	Koli Harshada Sanjaykumar	P	P	P	P	P	P											
10	Sutar Monesh Vitthal	P	P	P	P	P	P											
11	Nandiwale Sanjay Shivaji	P	P	P	P	P	P											
12	Dudhale Suhas Shankar	P	P	P	P	P	P											
13	Patil Abhijeet Baburao	P	P	P	P	P	P											

*Khaladkar*  
 Coordinator  
 Dr. K.D. Khaladkar  
 Head  
 Dept. of Political Science

Principal



Anekant Education Society's  
**Jaysingpur College, Jaysingpur**

Department of Political Science

Vale Added Course 2020-21

**Certificate Course in Indian Constitution: Rights and Duties**

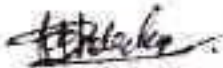
February 2021

Subject: Indian Constitution: Rights and Duties

Attendance Sheet: 2020-21

Teacher Name:- Dr. K. D. Khaladkar

Sr. No.	Date → Name of the Student	01/02/21	05/02/21	06/02/21	08/02/21	12/02/21	13/02/21	15/02/21	20/02/21	22/02/21	26/02/21				
		1	Nagarkar Shweta Kundan	P	P	P	P	P	P	P	P	P	P		
2	Rajput Sneha Sanjay	P	P	P	P	P	P	P	P	P	P				
3	Agalawane Shafiya Shabuddeen	P	P	P	P	P	P	P	A	P	P				
4	Aiwale Aniket Popat	P	P	A	P	P	P	P	P	P	P				
5	Shinde Shubham Akaram	P	P	P	P	P	P	P	P	P	P				
6	Kinikar Sourabh Sukumar	P	P	P	P	P	P	P	P	P	P				
7	Kamble Viraj Vasant	P	P	P	P	P	P	P	P	P	P				
8	Torave Rohit Shankar	P	P	P	P	P	P		P	P	P				
9	Koli Harshada Sanjaykumar	P	P	P	P	P	P	P	P	P	P				
10	Sutar Monesh Vitthal	P	P	P	P	P	P	P	P	P	P				
11	Nandiwale Sanjay Shivaji	P	P	P	P	P	P	P	P	P	P				
12	Dudhale Suhas Shankar	P	P	P	P	P	P	P	P	P	P				
13	Patil Abhijeet Baburao	P	P	P	P	P	P	P	P	P	P				

  
**Coordinator**  
 Dr. K. D. Khaladkar  
 Head  
 Dept. of Political Science

**Principal**

Anekant Education Society's  
**Jaysingpur College, Jaysingpur**

Department of Political Science

Value Added Course 2020-21

**Certificate Course in Indian Constitution: Rights and Duties**

**Subject: Indian Constitution: Rights and Duties**

January 2021

Attendance Sheet: 2020-21

**Teacher Name:- Dr. P. A. Pawar**

Sr. No.	Date → Name of the Student	19/01/21	20/01/21	21/01/21	27/01/21	28/01/21	29/01/21												
1	Nagarkar Shweta Kundan	P	P	P	P	P	P												
2	Rajput Sneha Sanjay	P	P	P	P	P	P												
3	Agalawane Shafiya Shabuddeen	P	P	P	P	P	P												
4	Aiwale Aniket Popat	P	P	P	P	P	P												
5	Shinde Shubham Akaram	P	P	P	P	P	P												
6	Kinikar Sourabh Sukumar	P	P	P	P	P	P												
7	Kamble Viraj Vasant	P	P	P	P	P	P												
8	Torave Rohit Shankar	P	P	P	P	P	P												
9	Koli Harshada Sanjaykumar	P	P	P	P	P	P												
10	Sutar Monesh Vitthal	P	P	P	P	P	P												
11	Nandiwale Sanjay Shivaji	P	P	P	P	P	P												
12	Dudhale Suhas Shankar	P	P	P	P	P	P												
13	Patil Abhijeet Baburao	P	P	P	P	P	P												

  
 Coordinator  
 Head  
 Dept of political science

Principal



Anekant Education Society's  
**Jaysingpur College, Jaysingpur**

Department of Political Science

Value Added Course 2020-21

Certificate Course in Indian Constitution: Rights and Duties

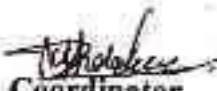
Subject: Indian Constitution: Rights and Duties

February 2021

Teacher Name:- **Dr. P. A. POWAR**

Attendance Sheet: 2020-21

Sr. No.	Date → Name of the Student	20/02/20	23/02/20	24/02/20	25/02/20	26/02/20	27/02/20	28/02/20	01/03/20	02/03/20	03/03/20	04/03/20	05/03/20	06/03/20
		1	Nagarkar Shweta Kundan	P	P	P	P	P	P	P	P	P	P	P
2	Rajput Sneha Sanjay	P	P	P	P	P	P	P	P	P	P	P	P	P
3	Agalawane Shafiya Shabuddeen	P	P	P	P	P	P	P	P	P	P	P	P	P
4	Aiwale Aniket Popat	P	P	P	P	P	P	P	P	P	P	P	P	P
5	Shinde Shubham Akaram	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Kinikar Sourabh Sukumar	P	P	P	P	P	P	P	P	P	P	P	P	P
7	Kamble Viraj Vasant	P	P	P	P	P	P	P	P	P	P	P	P	P
8	Torave Rohit Shankar	P	P	P	P	P	P	P	P	P	P	P	P	P
9	Koli Harshada Sanjaykumar	P	P	P	P	P	P	P	P	P	P	P	P	P
10	Sutar Monesh Vitthal	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Nandiwale Sanjay Shivaji	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Dudhale Suhas Shankar	P	P	P	P	P	P	P	P	P	P	P	P	P
13	Patil Abhijeet Baburao	P	P	P	P	P	P	P	P	P	P	P	P	P


  
Coordinator  
Dr. K. D. Kheradkar  
Head  
Dept. of political science

Principal

Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
Department of Political Science  
Value Added Course 2020-21  
Certificate Course in Indian Constitution: Rights and Duties

**Result**

Sr.No.	Name of the Student	Class	Grade
1	Nagarkar Shweta Kundan	B. A. III	A
2	Rajput Snehal Sanjay	B. A. III	A
3	Agalawane Shafiya Shabuddeen	B. A. III	A
4	Aiwale Aniket Popat	B. A. III	B+
5	Shinde Shubham Akaram	B. A. III	A
6	Kinikar Sourabh Sukumar	B. A. III	A
7	Kamble Viraj Vasant	B. A. III	A
8	Torave Rohit Shankar	B. A. III	A
9	Koli Harshada Sanjaykumar	B. A. III	B+
10	Sutar Monesh Vitthal	B. A. III	A
11	Nandiwale Sanjay Shivaji	B. A. III	B+
12	Dudhale Suhas Shankar	B. A. III	A
13	Patil Abhijeet Baburao	B. A. III	B+

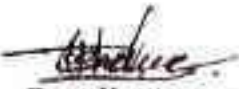
  
Coordinator  
D.T. K.D. Khaladkar  
Head  
Dept of Political Science

Principal

Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
Department of Political Science  
Value Added Course 2020-21  
**Certificate Course in Indian Constitution: Rights and Duties**

**Annual Report**

The objective of this course is to create awareness among students about the philosophy, fundamental rights, duties, guidelines and fundamentals of the Indian Constitution. This course is value added add on course of 30 hours. In his academic year 13 students were enrolled for the course. The course was started in January, 2021. The course was conducted as per proper timetable and students were guided by teachers. All students were completed course work successfully. In the month of February, 2021, examination was held. All students have passed and got certificate of the course.

  
Coordinator  
Dr. K. D. Kharadkar  
Head  
Dept. of Political Science

**Principal**

Anekant Education Society's  
**JAYSINGPUR COLLEGE JAYSINGPUR**  
Karmveer Kaushalya Kendra 2020-21  
Department of Psychology  
Value Based Certificate Course in Personality Development  
List of students

S.N.	Student Name	Class
1	Vadar Pankaj Mansing	B.A. III
2	Vadar Ankita Pramod	B.A. III
3	*Tiwade Shweta Sanjay	B.A. III
4	*Kurahde Shabdashree Anil	B.A. III
5	Kamble Suraj Sanjay	B.A. III
6	kamble Pramod Sanjay	B.A. III
7	*Sutar Utkarsha Uttam	B.A. III
8	Shinge Ajinkya Raju	B.A. III
9	Magdum Darshan Subhash	B.A. III
10	Patil Sourabh Adgonda	B.A. III
11	*Khamkar Vaishnavi Akaram	B.A. III
12	Kamble Akash Ashok	B.A. III
13	Keripale Omkar Satgonda	B.A. III
14	Kamble Sourabh Ravindra	B.A. III
15	Pokale Supriya Namdev	B.A. III
16	Turambe Ashitosh Vikram	B.A. III
17	Turambe Vaibhav Nandkumar	B.A. III
18	Kamble Sanat Ravindra	B.A. III



  
**Head**  
Department of Psychology  
Jaysingpur College, Jaysingpur



Anekant Education Society's  
**JAYSINGPUR COLLEGE JAYSINGPUR**  
**Karmveer Koushalya Kendra 2020-21**  
**Department of Psychology**  
**Value Based Program**  
**Certificate Course in Personality Development**  
**Annual Report**

During the academic year 2020-21 Value based - Certificate course in Personality Development under Karmaveer Kaushalya Kendra was run by the department of psychology. For this course 18 students were enrolled from B.A.III of Psychology.

The periods of the course were started from 4<sup>th</sup> January 2021. Total 30 lectures out of them 15 Lectures and 15 Practical's were completed up to February end.

The final examination of the course was conducted on 14<sup>th</sup> March 2021. All 18 students were appeared for the examination and passed successfully.



  
**Head**  
Department of Psychology  
Jaysingpur College, Jaysingpur