



SES's

Shikshan Maharishi Dadasaheb Limaye Arts, Commerce and Science College  
Sector-3E, CIDCO Colony, Kalamboli, Navi Mumbai.

## Curricular Aspects: - Policy & Procedure

### Curricular Aspects: -

- 1. Curriculum Planning & Implementation:** - Shikshan Maharishi Dadasaheb Limaye College of Arts, Commerce and Science, Kalamboli is affiliated to University of Mumbai, taught by Sudhagad Education Society. The syllabus prepared by the affiliated university is strictly implemented by the college. The institution ensures effective delivery of curriculum through a well-planned and documented process to achieve academic excellence and professional competence by adopting academic flexibility measures.
- 2. Academic Calendar:** - An academic calendar is prepared at the beginning of every academic year with the help of the Principal, Heads of all Departments. For this, the basis of the annual arrangement of the University is taken.
- 3. Curriculum Design:** - Curriculum design is done by the Board of Studies of the University. Therefore, the implementation of the syllabus is done at the college level only as per the guidelines and conditions laid down by the university. For the 30-hour certificate courses conducted at the college level, the coordinator of the respective course forms a study committee and designs the syllabus for the respective certificate course. Some of the faculty members of the college are members of the sub-committee appointed by the Board of Studies of the University.
- 4. Admission Process:** - To facilitate the admission process at the college level, a committee has been constituted under the chairmanship of the principal. The admission process is implemented through this committee. Students who want to take admission for first year have to go to the university portal and first register for the respective course and students are asked to fill the specific information on the portal and submit the print out and college admission form to the office. The college has provided PC, internet and printout facilities in the Department of Computer Science for registering admissions on the University portal to remove the hurdles faced by the students in understanding the admission process. Merit wise list of students is prepared and displayed on the notice board as per University guidelines regarding admission process. Students whose name is included in this list are requested to confirm their admission after verifying their documents and paying the admission fee.
- 5. Induction Program:** - An induction program is organized every year to bridge the gap between newly admitted first year students and second and third year students of the college. Second-year and third-year students welcome first-year students and provide information about the college. After this all subject teachers are introduced. The program is concluded with the congratulation of the principal.
- 6. Time Table:** - A time table committee has been appointed at the college level for the time table. The said committee prepares the time table with the help of all the Heads of Departments according to the workload of each subject as per the prescribed guidelines of the University. This schedule is strictly enforced. For this, a meeting is organized by each department head with his fellow professors to distribute the curriculum, workload and other activities. Also, meetings are organized with the principal for single faculty departments.
- 7. Teaching Learning Strategy:** - The work of teaching and learning is done through lectures, demonstrations. Regular hours are taken as per schedule. Each teacher in the college prepares a detailed teaching plan to ensure strict adherence to the schedule and records the part of the syllabus taught in the classroom in a daily diary. PowerPoint presentations, demonstrations, group discussions, Q&A are adopted so that the students can understand the subject easily and develop interest in the



study. During the Corona Pandemic, teaching was done through Google Meet, Zoom. Study material is made available to the students through Google Classroom as well as reference books and website addresses for more information about the study material. Practical book is compulsory for the students of Science stream and its regular verification is done by the teacher of the concerned subject. Field visit, Industrial visit is organized by each department once a year so that the students can know about the production, technology and how the production process is completed. Teachers are available after the class hours to clear the queries of the students. Academic performance of students, scholarships, college and competitive exams and other issues are taken care of by the faculty and head librarians. Lectures by specialists are organized on current trends related to competitive examinations and university curriculum.

Almost all the teachers of the college participate in the paper assessment of the university every year and some teachers are also involved in the paper chairperson, paper setting of the university level examination.

**8. Project work and practical's:** - Project work is a part of the curriculum in most of the undergraduate and postgraduate courses like Foundation Course, Economics, History, Marathi, Chemistry. Students are guided by relevant subject experts to complete their projects and thesis. In most degree courses such as Geography, Chemistry, Microbiology, Physics, Computer Science, Botany practical's are a part of the curriculum. Students are guided by the respective subject experts to complete their practical's as per the University syllabus and guidelines.

**10. Teacher Development Scheme:** - The institute has always encouraged the teachers to attend orientation and refresher programs in the respective subject to gain depth of theory, practical and reference material. Along with this, it has been encouraged to attend short-term courses such as various workshops, teacher training programs organized by Academic Staff Colleges and other institutions.

**11. Result analysis:** - The Institution also evaluates the attainment of the outcomes from the performance of the students in the examination. As per the instructions of the University, the analysis of the attainment of the outcomes of the exams conducted at the College level through Cluster is done by the examination department working at the College level. The attainment of the outcomes of the examinations conducted by the University is analyzed by each department program and course wise and then a copy is given to the Principal and IQAC.

**12. Internal Assessment:** - Unit tests, practical's, projects, tutorials, assignments, seminars, group discussions, performance of the students is evaluated by organizing debates, field visits, open-book tests, oral tests, etc.

Students are encouraged for successful participation in competitions like participation in cultural events, elocution, poetry reading, quizzes, debates, essay writing, poster display, employment in various fields.

Program outcomes (POs), course outcomes (COs) and program specific outcomes (PSOs) are displayed on the website. Course outcomes are measured based on student performance in class, practical, internal and external evaluation.

**13. Evaluation:** - Tutorial, Assignments, Practical, Project, Group Discussion, Questions - Answers, Mock Test, Surprise test, Prelim exam are adopted for continuous evaluation and Semester I, II, III and IV of Under graduate examination by Cluster as per University guidelines. It is taken at college level. Examination of Semester-V and VI and Post graduate (M.A.) Semester I, II, III and IV is conducted by the University. The results of the respective examinations are declared by the examination department functioning at the College level and by the examination department of the University.

**14. Feedback:** - At the end of every academic session, the teachers of all subjects collect student feedback on curriculum design and review and analyze it. The feedback is being filled by giving the feedback form to the students, but since the Corona pandemic, the feedback of the students is being taken through Google Form. Inputs for curriculum feedback are as like: - Is the curriculum



date? (Is the Curriculum updated enough?), Is the curriculum content stimulating? (Is the Curriculum content interesting?), is the curriculum meeting your expectations? (Is the Curriculum fulfilling your expectation?), Is there a curriculum that helps you develop your personality? (Is the Curriculum Helping in developing your Personality), is the curriculum applicable in your daily life? (Is the Curriculum applicable in your daily life), is the curriculum relevant for solving local problems? (Is the Curriculum is relevant for the solution of local problems), is it necessary to include skill based content in the current curriculum? (Is the need to include skill based content in current syllabus) etc. Inputs on teachers teaching methods are classroom activities, teacher knowledge, use of teaching aids, internal evaluation, limitations, deficiencies and quality etc. are apart from this all the departments collect and analyze the feedback of the students about the various courses, extra activities and short term courses conducted for the development of knowledge, skills, personality, global competence and employability orientation of the students. Reports of all these activities are submitted to IQAC. Along with this, feedback from parents, alumni and staff is also taken. After analyzing the feedback received and studying the suggestions received from students, alumni, parents and staff, efforts are made at Institutional and College level to solve them. After analyzing the feedback collected from all the stakeholders on the course, the suggestions regarding the course are communicated to the University through correspondence so that the relevant suggestions are considered by the University while designing the course plan.

*P.M. Mahajan*  
PRINCIPAL  
E.S.'s S. M. Dadasahab Limaye  
College, Kalamboli,  
Tal : Parvel, Dist : Raigad.

**SES's Shikshan Maharshi Dadasaheb Limaye Art's, Commerce & Science  
College, Kalamboli  
Academic Calendar - 2022-23**

| <b>First Term from 13<sup>th</sup> June 2022 to 22<sup>nd</sup> October 2022</b> |   |  |
|--|---|--|
| 1  | Opening of the College                    | 13 <sup>th</sup> June 2022                                       |
| 2  | Yoga Day                                  | 21 <sup>st</sup> June 2022                                       |
| 3  | Welcome Celebration (Induction Program)   | 22 <sup>nd</sup> August 2022                                     |
| 4  | Library Day                               | 12 <sup>th</sup> August 2022                                     |
| 5  | College Foundation Day                    | 13 <sup>th</sup> August 2022                                     |
| 6  | Celebration of the Independence Day       | 15 <sup>th</sup> August 2022                                     |
| 7  | Ganesh Festival                           | 31 <sup>st</sup> August to 4 <sup>th</sup> September 2022        |
| 8  | Teacher's Day                             | 5 <sup>th</sup> September 2022                                   |
| 9  | N. S. S. Day                              | 14 <sup>th</sup> September 2022                                  |
| 10   | Gandhi Jayanti (Blood Donation Camp)      | 02 <sup>nd</sup> October 2022                                    |
| 11   | First Term Exam                           | 2 <sup>nd</sup> week of October 2022                             |
| 12   | Vachan Prerna Divas                       | 15 <sup>th</sup> October 2022                                    |
| 13   | First Term End                            | 21 <sup>nd</sup> October 2022                                    |
| 14   | Diwali Vacation                           | 22 <sup>st</sup> October to 6 <sup>th</sup> November 2022        |
| <b>Second Term From 7<sup>th</sup> November 2022 to 1<sup>st</sup> May 2023</b>  |   |  |
| 1  | Reopening of the College                  | 7 <sup>th</sup> November 2022                                    |
| 2  | Sanvidhan Din                             | 26 <sup>th</sup> November 2022                                   |
| 3  | AIDS Day                                  | 01 <sup>st</sup> December 2022                                   |
| 4  | N. S. S. Camp                             | 2 <sup>nd</sup> Week of December 2022                            |
| 5  | Break of Winter Term (Christmas Vacation) | 26 <sup>th</sup> December 2022 to 31 <sup>st</sup> December 2022 |
| 6  | Geography Day                             | 14 <sup>th</sup> January 2023                                    |
| 7  | Celebration of Republic Day               | 26 <sup>th</sup> January 2023                                    |
| 8  | Annual Sports & Prize Distribution        | 03 <sup>rd</sup> week of January 2023                            |
| 9  | Marathi Bhasha Din                        | 27 <sup>th</sup> February 2023                                   |
| 10   | Second Term Exam                          | 3 <sup>rd</sup> Week of March 2023                               |
| 11   | World Women Day                           | 8 <sup>th</sup> March 2023                                       |
| 12   | Dr. Ambedkar Jayanti                      | 14 <sup>th</sup> April 2023                                      |
| 13   | Examination Result                        | 30 <sup>th</sup> April 2023                                      |
| 14   | Maharashtra Din                           | 1 <sup>st</sup> May 2023   |
| 15   | Second Term End                           | 1 <sup>st</sup> May 2023   |
| 16   | Summer Vacation                           | 2 <sup>nd</sup> May 2023 to 12 <sup>th</sup> June 2023           |



*He Shikshak*

PRINCIPAL

SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal.- Panvel, Dist. - Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce & Science College Kalamboli.

Academic Year 2022-23

Department of Economics

Department Activity Planning Calendar

| Sr. No. | Name of the Activity   | Tentative Date         |
|---------|--|------------------------|
| 1.      | First Term Meeting   | Second Week June 2022  |
| 2.      | Mentor lecture   | Fourth Week July. 2022 |
| 3.      | Poster Making Competition  | Second Week August2022 |
| 4.      | Debate Competition   | Second Week August2022 |
| 5.      | Home Assignment Semester-I <sup>st</sup> , III <sup>rd</sup> & V <sup>th</sup> | Third Week August 2022 |
| 6.      | Open Book Test   | Second Week Sept. 2022 |
| 7.      | Career Guidance  | Second Week Sept. 2022 |
| 8.      | Mock test  | Fourth Week Sept. 2022 |
| 9.      | Project Completion Semester-V  | First Week Oct. 2022   |
| 10.     | Second Term Meeting  | Fourth Week Nov. 2022  |
| 11.     | Skill Development and Training program   | First Week Dec. 2022   |
| 12.     | Career Guidance  | Second Week Dec. 2022  |
| 13.     | Certificate Course   | Second Week Dec. 2022  |
| 14.     | Food Festival  | Last Week Jan 2023     |
| 15.     | Open Book Test   | Second week Feb. 2023  |
| 16.     | Home Assignment II <sup>nd</sup> , IV <sup>th</sup> & VI <sup>th</sup>         | Third Week Feb. 2023   |
| 17.     | Industrial Visit   | Fourth Week Feb. 2023  |
| 18.     | Project Completion Semester-VI   | First Week March 2023  |
| 19.     | Mock test  | First Week March .2023 |
| 20.     | Term End Meeting   | Fourth Week April 2023 |

Head of Department  
Head

Department of Economics  
S. M. C. L. College, Kalamboli.



Principal  
I/C PRINCIPAL

SES S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

सु. ए. सो. शिक्षणमहर्षी दादासाहेब लिमये कला, विज्ञान व वाणिज्य  
महाविद्यालय कळंबोली, नवी मुंबई.

वार्षिक नियोजन - मराठी विभाग - सन २०२२ - २३

| अ. क्रं. | महिना व तारीख | कार्यक्रम  |
|----------|---------------|--|
| १.       | ५ ऑगस्ट       | सत्र आरंभाची हर घर तिरंगा राबविण्याबाबत मिटींग           |
| २.       | ५ सप्टेंबर    | शिक्षक दिनानिमित्त व्याख्यान                             |
| ३.       | २ ऑक्टोबर     | स्वातंत्र्यसैनिकांच्या स्मृतीप्रीत्यर्थ निबंध स्पर्धा    |
| ४.       | ३ जानेवारी    | क्रांतीज्योती सावित्रीबाई फुले जयंती निमित्त व्याख्यान   |
| ५.       | २८ जानेवारी   | राजमाता जिजाऊसाहेब यांच्या जयंतीनिमित्त वक्तृत्व स्पर्धा |
| ६.       | २७ फेब्रुवारी | जागतिक मराठी भाषा दिन                                    |

  
विषय शिक्षक

  
Head  
विभाग प्रमुख  
Department of Marathi  
S. M. D. L. College, Kalamboli.

  
I/O प्रचार्य  
SES'S E  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.  
(शैक्षणिक वर्ष 2022-23)

भूगोल विभाग वार्षिक नियोजन 2022-23

1. Departmental Meeting
2. Google Classroom
3. Project Work
4. Online and offline Study Materials
5. Career Guidance Program
6. State level webinar for student on preparation of competitive exam
7. World Geography Day
8. Assignment
9. Extra Lecture
10. Study Tour / Village Survey
11. Student-Parent Meeting

*PP Mahajan*  
1) डॉ. महाजन पी. पी.  
भूगोल विभाग प्रमुख  
Department of Geography  
S. M. D. L. College, Kalamboli.



*PP Mahajan*  
प्राचार्य

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel. Dist. - Raigad.

2) माळी पी. पी. (सहा. शिक्षक) *Maali*

SHIKSHAN MAHARSHI DADASAHEB LIMAYE ARTS, COMMERCE AND  
SCIENCE

COLLEGE KALAMBOLI  
ACADEMIC YEAR 2022-2023

DEPARTMENT OF COMMERCE

| Month     | Activity (Annual planning)        |
|-----------|-----------------------------------|
| JUNE      | Departmental Meeting              |
| JULY      | Induction Programme               |
| AUGUST    | Career Guidance                   |
| SEPTEMBER | Practical coursework              |
| OCTOBER   | Exam                              |
| NOVEMBER  | Career Guidance                   |
| DECEMBER  | Parent Meeting                    |
| JANUARY   | Food festival                     |
| FEBRUARY  | Industrial visit                  |
| MARCH     | Seminar sports Annual Function    |
| APRIL     | Remedial teaching (extra lecture) |

*Machiger*

Head of department  
Head

Department of Commerce

S. M. D. L. College, Kalamboli,

1. J. D. Machiger *Machiger*
2. B. M. Arote *By*
3. M. M. Kamble *Muram*
4. .Seema Rawal *Shauat*
5. .P. P. Mali *Praadi*
6. .T. R. Chobe *TRChobe*

*Shemle*

Principal

I/C PRINCIPAL

SES'S S. M. Dadasaheb Limaye

ACS College, Kalamboli,

Tal. - Panvel, Dist. - Raigad.





**Shikshan Maharshi Dadasaheb Limaye Arts, Commerce & Science College Kalamboli.**  
**Annual Department Activity Planning: 2022-23**  
**Department of Chemistry**

| Sr. No. | Name of the Activity   | Tentative Date         |
|---------|--|------------------------|
| 1.      | First Term Departmental Meeting  | Second Week July 2021  |
| 2.      | Practical & Project Orientation Lecture  | Fourth Week Aug. 2021  |
| 3.      | Mentor lecture   | Fourth Week Aug. 2021  |
| 4.      | Home Assignment Semester-I <sup>st</sup> , III <sup>rd</sup> & V <sup>th</sup> | Third Week August 2021 |
| 5.      | Posters presentation   | Second Week Sept. 2021 |
| 6.      | Project Completion Semester-V  | First Week Oct. 2021   |
| 7..     | Student-Parents Meet   | Second Week Oct. 2021  |
| 8..     | Open Book Test   | Second Week Oct. 2021  |
| 9..     | Second Term Departmental Meeting   | Fourth Week Nov. 2021  |
| 10..    | Poster Presentation  | Second Week Dec. 2021  |
| 11.     | Open Book Test   | Second week Feb. 2022  |
| 12.     | Science Day Celebration  | Fourth Week Feb. 2022  |
| 13.     | Home Assignment II <sup>nd</sup> , IV <sup>th</sup> & VI <sup>th</sup>         | Third Week Feb. 2022   |
| 14.     | Project Completion Semester-VI   | First Week March 2022  |
| 15.     | Term End Meeting   | Fourth Week April 2022 |



*S. M. Dadasaheb Limaye*

**PRINCIPAL**

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad

**S. E. S. Shikshan Maharshi Dadasaheb Limaye College, Kalamboli**  
**Art's, Commerce & Science, 410218**

**Annual Departmental Activity 2022-23**

| Sr. No. | Activity Undertaken  | Date                            |
|---------|--|---------------------------------|
| 1.      | Opening of the College   | 06 <sup>th</sup> June 2022      |
| 2.      | International Yoga Day   | 21 <sup>st</sup> June 2022      |
| 3.      | Inauguration of Students Unit, Microbiologist Society, India, 2022- Quiz competition | 13 <sup>th</sup> August 2022    |
| 4.      | Ganpati Idol making competition  | 30 <sup>th</sup> August 2022    |
| 5.      | Microbiologist Day- Rangoli Competition  | 17 <sup>th</sup> September 2021 |
| 6.      | Fermented Food Festival, 2023  | 13 <sup>th</sup> January 2023   |
| 7.      | 22 <sup>nd</sup> National Level Online Microbiological Contest                       | 23 <sup>rd</sup> January 2023   |



HOD

**Head**

Department of Microbiology  
S. M. D. L. College, Kalamboli.



PRINCIPAL

**PRINCIPAL**

**SES's S. M. Dadasaheb Limaye**  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad



**SHIKSHAN MHARSHI DADASAHEB LIMAYE ARTS, COMMERCE AND SCIENCE COLLEGE, KALAMBOLI**

**TIME TABLE 2022-23**

**F.Y.B.A.**

| TIME                       | MONDAY        | TUESDAY       | WEDNESDAY        | THURSDAY         | FRIDAY      | SATURDAY    |
|----------------------------|---------------|---------------|------------------|------------------|-------------|-------------|
| 08.00 AM<br>TO 8.50<br>AM  | GEOGRAPHY I   | GEOGRAPHY I   | GEOGRAPHY I      | ECONOMICS I      | F.C. I      | F.C. I      |
| 08.50 AM<br>TO 09.40<br>AM | MARATHI I     | MARATHI I     | MARATHI I        | MARATHI I        | ECONOMICS I | ECONOMICS I |
| 9.40 AM<br>TO 10.30<br>AM  | MARATHI (COM) | MARATHI (COM) | HISTORY I        | MARATHI<br>(COM) | HISTORY I   | HISTORY I   |
| 11.00 AM<br>TO 11.50<br>AM | ECONOMICS I   | HISTORY I     | C.S.             | C.S.             | C.S.        | F.C. I      |
| 11.50 AM<br>TO 12.40<br>PM | C.S.          |               | MARATHI<br>(COM) | GEOGRAPHY<br>I   |             |             |

| SUBJECT         | SUBJECT TEACHER   | CONTACT NO. |
|-----------------|-------------------|-------------|
| F.C.I           | Prof.Mahajan.P.P. | 9004308385  |
| C.S.            | Prof.Seema Rawat  | 9820145846  |
| MARATHI ( COM ) | Dr.M.N.Bansode    | 9969102020  |
| MARATHI I       | DR.Jadhavar .R.B. | 8275300855  |
| ECONOMICS I     | Prof.Salunkhe V.D | 9969800900  |
| GEOGRAPHY I     | Prof.S.P.Hajare   | 8433561994  |
| HISTORY I       | Dr.Jadhav .B.B.   | 9920951878  |



*Je Dhamble*

**PRINCIPAL**

S.E.S.'s S. M.Dadasaheb Limaye  
College, Kalamboli  
Tal : Panvel, Dist : Raigad

**SHIKSHAN MHARSHI DADASAHEB LIMAYE ARTS, COMMERCE AND SCIENCE COLLEGE, KALAMBOLI**

**TIME TABLE 2022-23**

**S.Y.B.A.**

| TIME                 | MONDAY        | TUESDAY       | WEDNESDAY     | THURSDAY      | FRIDAY        | SATURDAY      |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 08.00 AM TO 8.50 AM  | ECONOMICS II  | ECONOMICS II  | ECONOMICS III | MARATHI II    | ADVERTISEMENT | ADVERTISEMENT |
| 08.50 AM TO 09.40 AM | GEOGRAPHY II  | GEOGRAPHY II  | HISTORY II    | GEOGRAPHY III | HISTORY II    | HISTORY III   |
| 9.40 AM TO 10.30 AM  | MARATHI II    | F.C. II       | GEOGRAPHY III | F.C.II        | MARATHI III   | MARATHI III   |
| 11.00 AM TO 11.50 AM | GEOGRAPHY III | ADVERTISEMENT | HISTORY III   | MARATHI III   | ECONOMICS III | MARATHI II    |
| 11.50 AM TO 12.40 PM | HISTORY II    | GEOGRAPHY II  | F.C.II        | HISTORY III   | ECONOMICS II  | ECONOMICS III |
| 12.40 PM TO 1.30 PM  | ADVERTISEMENT |               |               |               |               |               |

| SUBJECT       | SUBJECT TEACHER    | CONTACT NO. |
|---------------|--------------------|-------------|
| ECONOMICS II- | Prof.Mahajan.S.B.  | 9969101122  |
| ECONOMICS III | Prof.Salunkhe V.D  | 9969800900  |
| MARATHI III   | Dr.Bansode.M.N.    | 9969102020  |
| MARATHI II    | Dr.Jadhavar.R.B.   | 8275300855  |
| GEOGRAPHY II  | Prof.Mahajan.P.P.  | 9004308385  |
| GEOGRAPHY III | Prof.Mahajan.P.P   | 9004308385  |
| HISTORY II    | Dr.Jadhav .B.B.    | 9920951878  |
| HISTORY III   | Dr.Gaikwad.S.K     | 9324667355  |
| F.C.II        | Prof.Mahajan.P.P   | 9004308385  |
| ADVERTISEMENT | Prof.Salunkhe V.D. | 9969800900  |



*Dr. Salunkhe*

**PRINCIPAL**

S.E.S.'s S. M.Dadasaheb Limaye  
College, Kalamboli  
Tal : Panvel, Dist : Raigad.

SHIKSHAN MAHARSHI DADASAHEB LIMAYE ART'S, SCIENCE & COMMERCE COLLEGE KALAMBOLI, NAVI MUMBAI

TIME TABLE (2022-2023)

FACULTY OF SCIENCE

FYBSc

| TIME        | MONDAY               | TUESDAY                   | WEDNESDAY                                   | THURSDAY             | FRIDAY                                      | SATURDAY            |
|-------------|----------------------|---------------------------|---|----------------------|---|---------------------|
| 10.42-11.30 | Microbiology/Maths   | Microbiology/Maths        | Botany(US) / Physics                        | Botany(US) / Physics | Botany(US) / Physics                        | Microbiology/Maths  |
| 11.30-12.18 | Botany(US) / Physics | Botany(US) / Physics      | Botany(Practical)(US) / Physics (Practical) | Microbiology/Maths   | Botany(Practical)(US) / Physics (Practical) | Organic Chemistry   |
| 12.18-01.06 | F.C.                 | F.C.                      | Botany(Practical)(US) / Physics (Practical) | Botany(US) / Physics | Botany(Practical)(US) / Physics (Practical) | Organic Chemistry   |
| 01.06-01.54 | Microbiology/Maths   | Microbiology/Maths        | Botany(Practical)(US) / Physics (Practical) | F.C.                 | Botany(Practical)(US) / Physics (Practical) | OFF                 |
| 2.10-02.58  | OFF                  | Chem.Pract. Org./Physical | Chem.Pract. Org./Inorg.                     | Micro Practical      | Micro Practical                             | Microbiology/Maths  |
| 02.58-03.46 | Inorganic Chemistry  | Chem.Pract. Org./Physical | Chem.Pract. Org./Inorg.                     | Micro Practical      | Micro Practical                             | Inorganic Chemistry |
| 03.46-04.34 | Physical Chemistry   | Chem.Pract. Org./Physical | Chem.Pract. Org./Inorg.                     | Micro Practical      | Micro Practical                             | Physical Chemistry  |

SYBSc

| TIME        | MONDAY                   | TUESDAY                  | WEDNESDAY            | THURSDAY              | FRIDAY                      | SATURDAY                   |
|-------------|--------------------------|--------------------------|----------------------|-----------------------|-----------------------------|----------------------------|
| 11.30-12.18 | Microbiology/Maths       | Microbiology/Maths       | F.C.(US)             | F.C.(US)              | F.C.(US)                    | OFF                        |
| 12.18-01.06 | Microbiology/Maths       | Microbiology/Maths       | Ana.Chemistry (A.Y.) | Microbiology/Maths    | Ana.Chemistry (A.Y.)        | Ana.Chemistry (A.Y.)       |
| 01.06-01.54 | Org.Chemistry (A.G.)     | Org.Chemistry (A.G.)     | Microbiology/Maths   | Microbiology/Maths    | Microbiology/Maths          | Microbiology/Maths         |
| 2.10-02.58  | Micro Practical          | Micro Practical          | Micro Practical      | Chem. Pract. Physical | Inorganic Chemistry (V.B.)  | Inorganic Chemistry (V.B.) |
| 02.58-03.46 | Micro Practical          | Micro Practical          | Micro Practical      | Chem. Pract. Physical | Chem. Pract. (Phy.or Inorg) | Chem. Pract. (Org or Ana)  |
| 03.46-04.34 | Micro Practical          | Micro Practical          | Micro Practical      | Chem. Pract. Physical | Chem. Pract. (Phy.or Inorg) | Chem. Pract. (Org or Ana)  |
| 04.34-05.22 | Physical Chemistry (SRP) | Physical Chemistry (SRP) | OFF                  | OFF                   | Chem. Pract. (Phy.or Inorg) | Chem. Pract. (Org or Ana)  |

TYBSc Chemistry

| TIME        | MONDAY                       | TUESDAY                        | WEDNESDAY                   | THURSDAY                 | FRIDAY                        | SATURDAY             |
|-------------|------------------------------|--------------------------------|-----------------------------|--------------------------|-------------------------------|----------------------|
| 11.30-12.18 | Physical Chemistry Practical | Analytical Chemistry Practical | Organic Chemistry Practical | Drugs & Dyes Practical   | Inorganic Chemistry Practical | Analytical Chemistry |
| 12.18-01.06 | Physical Chemistry Practical | Analytical Chemistry Practical | Organic Chemistry Practical | Drugs & Dyes Practical   | Inorganic Chemistry Practical | Inorganic Chemistry  |
| 01.06-01.54 | Physical Chemistry Practical | Analytical Chemistry Practical | Organic Chemistry Practical | Drugs & Dyes Practical   | Inorganic Chemistry Practical | Organic Chemistry    |
| 2.10-02.58  | Drugs & Dyes                 | Analytical Chemistry           | Analytical Chemistry        | Analytical Chemistry     | Drugs & Dyes                  | Drugs & Dyes         |
| 02.58-03.46 | Physical Chemistry           | Inorganic Chemistry            | Analytical Chemistry        | Inorganic Chemistry      | Analytical                    | Physical Chemistry   |
| 03.46-04.34 | Inorganic Chemistry          | Inorganic Chemistry            | Physical Chemistry (SRP)    | Organic Chemistry        | Organic Chemistry             | Inorganic Chemistry  |
| 04.34-05.22 | Organic Chemistry            | Organic Chemistry              | Physical Chemistry (SRP)    | Physical Chemistry (SRP) | Organic Chemistry             | Physical Chemistry   |



*S. S. Limaye*  
PRINCIPAL

S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.

SHIKSHAN MAHARSHI DADASAHEB LIMAYE ARTS, SCIENCE & COMMERCE College, Kalamboli.

INDIVIDUAL TIME TABLE (2022-2023)  
FACULTY OF SCIENCE (Chemistry Department)

Mr.Palkar S.R.

| TIME        | MONDAY              | TUESDAY             | WEDNESDAY | THURSDAY            | FRIDAY | SATURDAY  |
|-------------|---------------------|---------------------|-----------|---------------------|--------|-----------|
| 10.42-11.30 |                     |                     |           |                     |        |           |
| 11.30-12.18 | T.Y.B.Sc. Practical |                     |           |                     |        |           |
| 12.18-01.06 | T.Y.B.Sc. Practical |                     |           |                     |        |           |
| 01.06-01.54 | T.Y.B.Sc. Practical |                     |           |                     |        |           |
|             |                     |                     |           |                     |        |           |
| 2.10-02.58  |                     | F.Y.B.Sc. Practical |           | S.Y.B.Sc. Practical |        |           |
| 02.58-03.46 | T.Y.B.Sc.           | F.Y.B.Sc. Practical |           | S.Y.B.Sc. Practical |        | T.Y.B.Sc. |
| 03.46-04.34 | F.Y.B.Sc.           | F.Y.B.Sc. Practical | T.Y.B.Sc. | S.Y.B.Sc. Practical |        | F.Y.B.Sc. |
| 04.34-05.22 | S.Y.B.Sc.           | S.Y.B.Sc.           | T.Y.B.Sc. | T.Y.B.Sc.           |        | T.Y.B.Sc. |

Total Workload

Lecture = 10

Practical = 9



*S.R. Palkar*  
PRINCIPAL  
S.E.S.'s S.M.Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.

**SES's SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE, KALAMBOLI, PANVEL, NAVI MUMBAI  
COMMERCE DEPARTMENTAL TIME TABLE 2022-2023**

| Time          | Class              | Monday                           | Tuesday                          | Wednesday                         | Thursday                          | Friday                            | Saturday                     |
|---------------|--------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------|
| 8.00-8.48 AM  | F. Y. B.Com        | A/C I & II - Dr.Arote            | A/C I & II - Dr.Arote            | A/C I & II - Dr.Arote             | A/C I & II - Dr.Arote             | Eco I & II - Patil                | Maths-arote                  |
|               | S. Y. B.Com        | Eco III & IV - Patil             | Eco III & IV - Patil             | Eco III & IV - Patil              | Advertising-Patil                 | A/C & Fin. III & IV-Machigar      | A/C & Fin. III & IV-Machigar |
|               | T. Y. B.Com        | Financial A/c - Machigar         | Financial A/c -Machigar          | Financial A/c -Machigar           | Export -jaya                      | Direct tax - Dr.Arote             | Eco - V & VI Patil           |
| 8.48-9.36AM   | F. Y. B.Com        | Foundation course I & II - Patil | Foundation course I & II - Patil | Evs - Mali                        | Foundation course I & II - Patil  | Evs - Mali                        | Evs - Mali                   |
|               | S. Y. B.Com        | Commerce-III& IV Arote           | Commerce-III& IV Arote           | Commerce-III& IV Arote            | B. Law I & II - Machigar          | B. Law I & II - Machigar          | A/C & Fin. III & IV-Machigar |
|               | T. Y. B.Com        | Financial A/c - Machigar         | Financial A/c -Machigar          | Financial A/c -Machigar           | Commerce V-- Dr.Arote             | Export-jaya                       | Commerce V- - Dr.Arote       |
| 9.36-10.24AM  | F. Y. B.Com        | Maths -Arote                     | Maths -Arote                     | BC - Rawat                        | Com - Machigar                    | Com - Machigar                    | Eco I & II - Patil           |
|               | S. Y. B.Com        | B. Law I & II - Machigar         | B. Law I & II - Machigar         | Foundation course -III & IV Patil | Foundation course -III & IV Patil | Foundation course -III & IV Patil | MA - Arote                   |
|               | T. Y. B.Com        | Eco - V & VI Patil               | Eco - V & VI Patil               | Direct tax - Dr.Arote             | Direct tax - Dr.Arote             | Commerce V- - Dr.Arote            | Export-jaya                  |
| 10.24-10.55AM | <b>R E C E S S</b> |                                  |                                  |                                   |                                   |                                   |                              |
| 10.55-11.45AM | F. Y. B.Com        | BC - Rawat                       | BC - Rawat                       | Eco -I & II Patil                 | Evs - Mali                        | Maths -Arote                      | Com - Machigar               |
|               | S. Y. B.Com        | A/C & Fin. III & IV-Machigar     | MA - Arote                       | MA - Arote                        | Advertising - Patil               | Advertising - Patil               |                              |
|               | T. Y. B.Com        |                                  | -                                |                                   | Financial A/c -Machigar           | Financial A/c-Machigar -          | -                            |
| 11.45-12.31PM | F. Y. B.Com        | B.C Rawat (Tutorial)             | Maths -Arote                     | B.C Rawat (Tutorial)              | B.C Rawat                         | Maths -Arote (Tutorial)           | Maths -Arote (Tutorial)      |
|               | S. Y. B.Com        | -                                | -                                | -                                 | -                                 | -                                 | -                            |
|               | T. Y. B.Com        | -                                | -                                | -                                 | -                                 | -                                 | -                            |
| 12.31-1.19 pm | F. Y. B.Com        | B.C Rawat (Tutorial)             | B.C Rawat (Tutorial)             | B.C Rawat (Tutorial)              | Maths -Arote (Tutorial)           | Maths -Arote (Tutorial)           | Maths -Arote (Tutorial)      |

*H. O. D*  
**H. O. D  
Head**

Department of Commerce  
S. M. D. L. College, Kalamboli.



*Principal*  
**Principal**

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

**Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College  
Kalamboli, Navi Mumbai.**

**Academic Year 2022-23**

**Time Table - Semester- I, III, V & II, IV, VI**

**SALUNKHE VASUNDHARA DATTARAM**

| S.N. | Monday             | Tuesday            | Wednesday | Thursday    | Friday             | Saturday           |
|------|--------------------|--------------------|-----------|-------------|--------------------|--------------------|
| 1    | XI & XVII          | XI & XVII          | IV & VI   | I & II      | I & II Advertising | I & II Advertising |
| 2    |                    | XI & XVII          | XI & XVII | XII & XVIII | I & II             | I & II             |
| 3    | XII & XVIII        |                    |           |             | XII & XVIII        |                    |
| 4    | I & II             | I & II Advertising |           |             | IV & VI            |                    |
| 5    |                    |                    |           |             |                    | IV & VI            |
| 6    | I & II Advertising |                    |           |             |                    |                    |

| S.N.         | Paper No.   | Class | Name of Paper   | Total Weekly Workload |
|--------------|-------------|-------|---|-----------------------|
| 1            | I & II      | FYBA  | Microeconomics-I, Semester-I<br>Microeconomics-II, Semester-II                              | 04                    |
| 2            | IV & VI     | SYBA  | Public Economics -IV, Semester-III<br>Indian Economy-VII, Semester-IV                       | 03                    |
| 3            | I & II      | SYBA  | Introduction to Advertising- I, Semester-III<br>Introduction to Advertising-II, Semester-IV | 04                    |
| 4            | XI & XVII   | TYBA  | Environmental Economics -I, Semester-V<br>Environmental Economics - II, Semester-VI         | 04                    |
| 5            | XII & XVIII | TYBA  | Economy of Maharashtra - I, Semester-V<br>Economy of Maharashtra - II - Semester-VI         | 03                    |
| <b>Total</b> |             |       |   | <b>18</b>             |



*S. S. Salunkhe*

**PRINCIPAL**

S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.



**SES, S. SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE, KALAMBOLI**  
**TIME TABLE 2022-23**  
**DEPARTMENT OF ECONOMICS**

Mahajan S.B.

| S.N. | Monday     | Tuesday    | Wednesday  | Thursday   | Friday     | Saturday   |
|------|------------|------------|------------|------------|------------|------------|
| 1    | III & V    | III & V    | VII & XIII | VII & XIII | VIII & XIV | VIII & XIV |
| 2    | VII & XIII |            |            |            | VIII & XIV | VIII & XIV |
| 3    |            | IX & XV    | IX & XV    | IX & XV    |            | X & XVI    |
| 4    | X & XVI    | VII & XIII |            | X & XVI    | X & XVI    |            |
| 5    |            |            |            |            | III & V    |            |

| S.N.         | Paper No.  | Class | Name of Paper   | Total Weekly Workload |
|--------------|------------|-------|---|-----------------------|
| 1            | III & V    | SYBA  | Macroeconomics- I, Semester- III<br>Macroeconomics- II, Semester- IV                                    | 03                    |
| 2            | VII & XIII | TYBA  | Advance Microeconomics – III, Semester- V<br>Advance Macroeconomics-III, Semester- VI                   | 04                    |
| 3            | VIII & XIV | TYBA  | Economic of Growth and Development,<br>Semester- V<br>International Economics, Semester- VI             | 04                    |
| 4            | IX & XV    | TYBA  | Industrial & Labour Economics-I, Semester- V<br>Industrial & Labour Economics-II, Semester- VI          | 03                    |
| 5            | X & XVI    | TYBA  | Entrepreneurship & Small Scale Industries<br>Management, Semester- V<br>Rural Development, Semester- VI | 04                    |
| <b>Total</b> |            |       |   | <b>18</b>             |

Salunkhe V.D.

| S.N. | Monday                | Tuesday               | Wednesday | Thursday    | Friday                | Saturday           |
|------|-----------------------|-----------------------|-----------|-------------|-----------------------|--------------------|
| 1    | XI & XVII             | XI & XVII             | IV & VI   | I & II      | I & II<br>Advertising | I & II Advertising |
| 2    |                       | XI & XVII             | XI & XVII | XII & XVIII | I & II                | I & II             |
| 3    | XII & XVIII           |                       |           |             | XII & XVIII           |                    |
| 4    | I & II                | I & II<br>Advertising |           |             | IV & VI               |                    |
| 5    |                       |                       |           |             |                       | IV & VI            |
| 6    | I & II<br>Advertising |                       |           |             |                       |                    |

| S.N.         | Paper No.   | Class | Name of Paper   | Total Weekly Workload |
|--------------|-------------|-------|---|-----------------------|
| 1            | I & II      | FYBA  | Microeconomics-I, Semester-I<br>Microeconomics-II, Semester-II                              | 04                    |
| 2            | IV & VI     | SYBA  | Public Economics -IV, Semester-III<br>Indian Economy-VII, Semester-IV                       | 03                    |
| 3            | I & II      | SYBA  | Introduction to Advertising- I, Semester-III<br>Introduction to Advertising-II, Semester-IV | 04                    |
| 4            | XI & XVII   | TYBA  | Environmental Economics – I, Semester-V<br>Environmental Economics - II, Semester-VI        | 04                    |
| 5            | XII & XVIII | TYBA  | Economy of Maharashtra – I, Semester-V<br>Economy of Maharashtra – II - Semester-VI         | 03                    |
| <b>Total</b> |             |       |   | <b>18</b>             |



*Ze Shambh*

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College  
Kalamboli, Navi Mumbai.  
Academic Year 2022-23  
**Time Table - Semester- III & V**

MAHAJAN SANJAY BABURAO

| Sr. No. | Time                 | Monday                        | Tuesday                       | Wednesday                | Thursday                  | Friday                        | Saturday                  |
|---------|----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|-------------------------------|---------------------------|
| 1.      | 8.00 am to 8.50 am   | SYBA<br>Macroeconomics<br>-II | SYBA<br>Macroeconomics<br>-II | TYBA<br>Paper No.<br>VII | TYBA<br>Paper<br>No. VII  | TYBA<br>Paper No. VIII        | TYBA<br>Paper<br>No. VIII |
| 2.      | 8.50 am to 9.40 am   | TYBA<br>Paper No. VII         | -----                         | -----                    | .....                     | TYBA<br>Paper No. VIII        | TYBA<br>Paper<br>No. XI   |
| 3.      | 9.40 am to 10.30 am  |                               | TYBA<br>Paper No. IX          | TYBA<br>Paper No.<br>IX  | TYBA<br>Paper<br>No. VIII | .....                         | TYBA<br>Paper<br>No. IX   |
| 4.      | 10.50 am to 11.40 am | TYBA<br>Paper No. XI          | TYBA<br>Paper No. VII         | .....                    | TYBA<br>Paper<br>No. XI   | TYBA Paper<br>No. XI          | .....                     |
| 5.      | 11.40 am to 12.30 am | ....                          | .....                         | .....                    | .....                     | SYBA<br>Macroeconomics<br>-II | .....                     |

| Sr. No. | Paper No. | Paper Name                                | Total Weekly Workload |
|---------|-----------|---|-----------------------|
| 1.      | III       | Macroeconomics-II                         | 03                    |
| 2.      | VII       | Advanced Microeconomic Theory-III         | 04                    |
| 3.      | VIII      | Growth & Development                      | 04                    |
| 4.      | IX        | Industrial & Labour Economics             | 03                    |
| 5.      | X         | Entrepreneurship & Small Scale Industries | 04                    |
| Total   |           |   | 18                    |



*[Signature]*  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College  
Kalamboli, Navi Mumbai.  
Academic Year 2022-23

**Time Table – Semester- IV & VI**

MAHAJAN SANJAY BABURAO

| Sr. No. | Time                 | Monday                        | Tuesday                       | Wednesday                 | Thursday                  | Friday                        | Saturday                 |
|---------|----------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|--------------------------|
| 1.      | 8.00 am to 8.50 am   | SYBA<br>Macroeconomics-<br>II | SYBA<br>Macroeconomics-<br>II | TYBA<br>Paper No.<br>XIII | TYBA<br>Paper<br>No. XIII | TYBA<br>Paper No.<br>XIV      | TYBA<br>Paper No.<br>XIV |
| 2.      | 8.50 am to 9.40 am   | TYBA<br>Paper No. XIII        | -----                         | -----                     | .....                     | TYBA<br>Paper No.<br>XIV      | TYBA<br>Paper No.<br>XIV |
| 3.      | 9.40 am to 10.30 am  |                               | TYBA<br>Paper No. XV          | TYBA<br>Paper No.<br>XV   | TYBA<br>Paper<br>No. XV   | .....                         | TYBA<br>Paper No.<br>XVI |
| 4.      | 10.50 am to 11.40 am | TYBA<br>Paper No. XVI         | TYBA<br>Paper No. XIII        | .....                     | TYBA<br>Paper<br>No. XVI  | TYBA<br>Paper No.<br>XVI      | .....                    |
| 5.      | 11.40 am to 12.30 am | ....                          | .....                         | .....                     | .....                     | SYBA<br>Macroecon<br>omics-II | .....                    |

| Sr. No. | Paper No. | Paper Name                    | Total Weekly Workload |
|---------|-----------|-------------------------------|-----------------------|
| 1.      | V         | Macroeconomics-II             | 03                    |
| 2.      | VII       | Macroeconomics-III            | 04                    |
| 3.      | VIII      | International Economics       | 04                    |
| 4.      | IX        | Industrial & Labour Economics | 03                    |
| 5.      | VIII      | Rural Development             | 04                    |
| Total   |           |                               | 18                    |



*(Signature)*  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Pangel, Dist :- Raigad.

S.E.S.

SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI

DEPARTMENT OF GEOGRAPHY

TIME TABLE 2022-23

| Sr. No.                     | Time                       | Class     | Monday   | Tuesday | Wednesday | Thursday | Friday  | Saturday  |  |
|-----------------------------|----------------------------|-----------|----------|---------|-----------|----------|---------|-----------|--|
| 1.                          | 8.00 am<br>To 8.48<br>am   | F.Y.B.A.  | F.C. I   | F.C. I  | F.C. I    |          | Geo. I  | Geo. I    |  |
|                             |                            | F.Y.B.Com |          |         |           |          |         |           |  |
|                             |                            | S.Y.B.A.  |          |         |           |          |         |           |  |
|                             |                            | T.Y.B.A.  | Geo.V    | Geo. V  | Geo. V    | Geo.V    | Geo. VI | Geo.VIII  |  |
| 2.                          | 8.48 am<br>To 9.36<br>am   | F.Y.B.A.  |          |         |           |          |         |           |  |
|                             |                            | F.Y.B.Com |          |         | E.V.S.    |          | E.V.S.  | E.V.S.    |  |
|                             |                            | S.Y.B.A.  | Geo. II  | Geo.II  |           | Geo. III |         |           |  |
|                             |                            | T.Y.B.A.  | Geo. VII | Geo.VII | Geo.IV    | Geo.VIII | Geo.IV  | Geo.IV    |  |
| 3.                          | 9.36 am<br>To 10.24<br>am  | F.Y.B.A.  |          |         |           |          |         |           |  |
|                             |                            | F.Y.B.Com |          |         |           |          |         |           |  |
|                             |                            | S.Y.B.A.  |          | F.C. II | Geo. III  | F.C. II  |         |           |  |
|                             |                            | T.Y.B.A.  | Geo. VII | Geo.VII | Geo. VIII | Geo. VI  | Geo. VI | Geo. VIII |  |
| Recess 10.24 am to 10.55 am |                            |           |          |         |           |          |         |           |  |
| 4.                          | 10.55 am<br>To 11.43<br>am | F.Y.B.A.  | Geo.III  |         |           |          |         | Geo. I    |  |
|                             |                            | F.Y.B.Com |          |         |           | E.V.S.   |         |           |  |
|                             |                            | S.Y.B.A.  |          |         |           |          |         |           |  |
|                             |                            | T.Y.B.A.  | Geo. IX  | Geo.IX  | Geo. IX   |          | Geo.IV  |           |  |
| 5.                          | 11.43 am<br>To 12.31<br>am | F.Y.B.A.  |          |         |           | Geo.I    |         |           |  |
|                             |                            | F.Y.B.Com |          |         |           |          |         |           |  |
|                             |                            | S.Y.B.A.  |          | Geo. II | F.C. II   |          |         |           |  |
|                             |                            | T.Y.B.A.  |          |         |           |          |         |           |  |



*S. M. Dadasaheb Limaye*  
PRINCIPAL

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.

DEPARTMENT OF GEOGRAPHY

Individual Time Table 2022-23

Semester I, III & V

Name of the Teacher: - Dr. Mahajan Priti P.

| Sr. No.                     | Time                 | Monday   | Tuesday | Wednesday | Thursday | Friday  | Saturday |
|-----------------------------|----------------------|----------|---------|-----------|----------|---------|----------|
| 1.                          | 8.00 am To 8.48 am   | F.C. I   | F.C. I  | F.C. I    |          | Geo. I  | Geo. I   |
| 2.                          | 8.48 am To 9.36 am   | Geo. II  | Geo. II | Geo. IV   | Geo. III | Geo. IV | Geo. IV  |
| 3.                          | 9.36 am To 10.24 am  |          | F.C. II | Geo. III  | F.C. II  |         |          |
| Recess 10.24 am To 10.55 am |                      |          |         |           |          |         |          |
| 4.                          | 10.55 am To 11.43 am | Geo. III |         |           |          | Geo. IV | Geo. I   |
| 5.                          | 11.43 am To 12.31 am |          | Geo. II | F.C. II   | Geo. I   |         |          |

| Paper No. | Name of Paper            | Total Weekly Workload |
|-----------|--------------------------|-----------------------|
| I         | Foundation Course        | 03                    |
| I         | Human Geography          | 04                    |
| II        | Foundation Course        | 03                    |
| II        | Geography of Maharashtra | 03                    |
| III       | Agriculture Geography    | 03                    |
| IV        | Geography Settlement     | 04                    |
| Total     |                          | 20                    |



*P. Mahajan*  
Principal

I/C PRINCIPAL  
SES'S S. M. Dadasahab Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.

DEPARTMENT OF GEOGRAPHY

Individual Time Table 2022-23

Semester II, IV & VI

Name of the Teacher: - Dr. Mahajan Priti P.

| Sr. No.                     | Time                 | Monday   | Tuesday | Wednesday | Thursday | Friday  | Saturday |
|-----------------------------|----------------------|----------|---------|-----------|----------|---------|----------|
| 1.                          | 8.00 am To 8.48 am   | F.C. I   | F.C. I  | F.C. I    |          | Geo. I  | Geo. I   |
| 2.                          | 8.48 am To 9.36 am   | Geo. II  | Geo. II | Geo. IV   | Geo. III | Geo. IV | Geo. IV  |
| 3.                          | 9.36 am To 10.24 am  |          | F.C. II | Geo. III  | F.C. II  |         |          |
| Recess 10.24 am To 10.55 am |                      |          |         |           |          |         |          |
| 4.                          | 10.55 am To 11.43 am | Geo. III |         |           |          | Geo. IV | Geo. I   |
| 5.                          | 11.43 am To 12.31 am |          | Geo. II |           | Geo. I   |         |          |

| Paper No. | Name of Paper              | Total Weekly Workload |
|-----------|----------------------------|-----------------------|
| I         | Foundation Course          | 03                    |
| I         | Environmental Geography    | 04                    |
| II        | Foundation Course          | 03                    |
| II        | Geography of India         | 03                    |
| III       | Travel & Tourism Geography | 03                    |
| IV        | Environmental Geography    | 04                    |
| Total     |                            | 20                    |



*(Signature)*

Principal

S.E.S. N. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

SHIKSHAN MAHARSHI DADASAHEB ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI  
ACADEMIC YEAR – 2022-23 TIMETABLE – DEPARTMENT OF MARATHI

NAME OF THE TEACHER :- Dr. Manisha N. Bansode

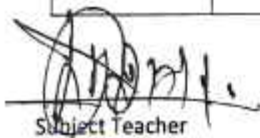
| Sr. | Time                 | Monday       | Tuesday         | Wednesday   | Thursday     | Friday       | Saturday     |
|-----|----------------------|--------------|-----------------|-------------|--------------|--------------|--------------|
| 1   | 8.00am To 8.48am     | Marathi VII  | Marathi VII     | Marathi VII | Marathi VIII | Marathi VIII | Marathi VIII |
| 2   | 8.48 am To 9.36 am   | Marathi VIII | Marathi VIII    | Marathi IX  | Marathi IX   | Marathi IX   |              |
| 3   | 9.30 am To 10.24 am  | Marathi com  | Marathi com     | Marathi com | Marathi com  | Marathi III  | Marathi III  |
|     |                      |              | Recess 10.24 am | To 10.55 am |              |              |              |
| 4   | 10.55 am To 11.43 am |              |                 |             | Marathi III  |              |              |
| 5   | 11.43 am To 12.31 am |              |                 | Marathi com |              |              |              |


| Paper No | Name of the Paper             | Total weekly Workload |
|----------|-------------------------------|-----------------------|
| I        | Marathi - Compulsory          | 04                    |
| III      | Marathi Ancillary - III       | 03                    |
| VII      | Linguistics & Marathi Grammar | 04                    |
| VIII     | Modern Marathi Literature     | 04                    |
| IX       | Occupational Marathi          | 03                    |
|          | Total                         | 18                    |

NAME OF THE TEACHER :- Dr. Ramesh B. Jadhavar

| Sr. no | Time                 | Monday        | Tuesday       | Wednesday     | Thursday      | Friday     | Saturday   |
|--------|----------------------|---------------|---------------|---------------|---------------|------------|------------|
| 1      | 8.00am To 8.48am     |               |               |               | Marathi II    |            |            |
| 2      | 8.48 am To 9.36 am   | Marathi - Opt | Marathi - Opt | Marathi - Opt | Marathi - Opt |            |            |
| 3      | 9.30 am To 10.24 am  | Marathi II    | Marathi VI    | Marathi IV    | Marathi IV    | Marathi IV | Marathi IV |
| 4      | 10.55 am To 11.43 am | Marathi V     | Marathi VI    | Marathi V     | Marathi V     | Marathi V  | Marathi II |
| 5      | 11.43 am To 12.31 am | Marathi IV    |               |               |               |            |            |

| Paper No | Name of the Paper                       | Total weekly Workload |
|----------|---|-----------------------|
|          |   | 04                    |
| III      | Marathi Ancillary - II                  | 03                    |
| VII      | History of Modern Marathi Literature    | 04                    |
| VIII     | Indian & Western Theories of Literature | 04                    |
| IX       | Literature & Society                    | 03                    |
|          | Total                                   | 18                    |

  
Subject Teacher

  
Head of the Department  
Department of Marathi  
S. M. D. L. College, Kalamboli,

  
I/C PRINCIPAL  
S. M. D. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.



FYBSc 2022-2023

| TIME        | MONDAY    | TUESDAY | WEDNESDAY             | THURSDAY | FRIDAY | SATURDAY  |
|-------------|-----------|---------|-----------------------|----------|--------|-----------|
| 2.10-02.58  |           |         | Chem-I & II Practical |          |        |           |
| 2.58-03-46  | Inorganic |         | Chem-I & II Practical |          |        |           |
| 03.46-04.34 |           |         | Chem-I & II Practical |          |        | Inorganic |

SYBSc 2022-2023

| TIME        | MONDAY | TUESDAY | WEDNESDAY | THURSDAY  | FRIDAY                | SATURDAY  |
|-------------|--------|---------|-----------|-----------|-----------------------|-----------|
| 2.10-02.58  |        |         |           |           | Inorganic             | Inorganic |
| 2.58-03-46  |        |         |           |           | Chem-I & II Practical |           |
| 03.46-04.34 |        |         |           | Inorganic | Chem-I & II Practical |           |
| 04.34-05.22 |        |         |           |           | Chem-I & II Practical |           |

TYBSc Chemistry  
2022-2023

| TIME        | MONDAY    | TUESDAY   | WEDNESDAY | THURSDAY  | FRIDAY               | SATURDAY  |
|-------------|-----------|-----------|-----------|-----------|----------------------|-----------|
| 11.30-12.18 |           |           |           |           | Inorganic(Practical) |           |
| 12.18-01.06 |           |           |           |           | Inorganic(Practical) |           |
| 01.06-01.54 |           |           |           |           | Inorganic(Practical) | Inorganic |
| 2.10-02.58  |           |           |           |           |                      |           |
| 2.58-03-46  |           | Inorganic |           | Inorganic |                      |           |
| 03.46-04.34 | Inorganic | Inorganic |           |           |                      |           |
| 04.34-05.22 |           |           |           |           |                      | Inorganic |

Subject Teacher





Principal  
 PRINCIPAL  
 SES's S. M. Dadasaheb Limaye  
 ACS College, Kalamboli.  
 Tel : Panvel, Dist : Raigad.




S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.


TIME TABLE 2022-23

DEPARTMENT OF HISTORY

| Mr. Avinash Pawar               |      |      |      |      |      |      |
|---------------------------------|------|------|------|------|------|------|
| B.A - History Timetable 2022-23 |      |      |      |      |      |      |
| TIME/DAY                        | MON  | TUE  | WED  | THU  | FRI  | SAT  |
| 1st - 8- 8:48                   | TYBA | TYBA | -    | -    | -    | TYBA |
| 2nd - 8.48 - 9.36               | -    | -    | TYBA | TYBA | TYBA | SYBA |
| 3rd - 9.36 - 10.24              | TYBA | TYBA | TYBA | TYBA | TYBA | TYBA |
| Break (10.24 to 10.55)          |      |      |      |      |      |      |
| 4th - 10.55 - 11.43             | TYBA | TYBA | SYBA | TYBA | -    | -    |
| 5th - 11.43 - 12.31             | -    | -    | -    | SYBA | -    | -    |

| Dr. Baban Jadhav                |      |      |      |      |      |      |
|---------------------------------|------|------|------|------|------|------|
| B.A - History Timetable 2022-23 |      |      |      |      |      |      |
| TIME/DAY                        | MON  | TUE  | WED  | THU  | FRI  | SAT  |
| 1st - 8-8:48                    | -    | -    | TYBA | TYBA | TYBA | -    |
| 2nd - 8.48-9.36                 | TYBA | TYBA | SYBA | -    | SYBA | TYBA |
| 3rd - 9.36-10.24                | -    | -    | FYBA | -    | FYBA | FYBA |
| Break (10.24 to 10.55)          |      |      |      |      |      |      |
| 4th - 10.55- 11.43              | -    | FYBA | TYBA | -    | -    | -    |
| 5th - 11.43- 12.31              | SYBA | -    | -    | -    | -    | -    |

  
**Head**  
Department of History  
S. M. D. L. College, Kalamboli.

Principal  
  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Pangel, Dist. - Raigad.

**SES's**  
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE ARTS, SCIENCE & COMMERCE COLLEGE**  
**KALAMBOLI, NAVI MUMBAI**  
**INDIVIDUAL TIME TABLE**  
**(2022-23)**

**NAME OF TEACHER: DR. USHA R. SAINGER**

**CLASS : F.Y.B.Sc.**

**SUBJECT : BOTANY**

| TIME        | MONDAY      | TUESDAY     | WEDNESDAY              | THURSDAY       | FRIDAY                 | SATURDAY |
|-------------|-------------|-------------|------------------------|----------------|------------------------|----------|
| 10:40-11:30 | -           | -           | Botany ( US )          | Botany (US)    | Botany (US)            | -        |
| 11:30-12:20 | Botany (US) | Botany (US) | Botany (Pract)<br>(US) | -              | Botany (Pract)<br>(US) | -        |
| 12:20-01:10 | FC<br>(US)  | FC<br>(US)  | Botany (Pract)<br>(US) | Botany<br>(US) | Botany (Pract)<br>(US) | -        |
| 1:10-1:55   | -           | -           | Botany (Pract)<br>(US) | FC<br>(US)     | Botany (Pract)<br>(US) | -        |

**CLASS: S.Y.B.Sc.**

**SUBJECT : FOUNDATION COURSE**

| TIME        | MONDAY   | TUESDAY  | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|-------------|----------|----------|-----------|----------|--------|----------|
| 10:40-11:20 | F.C.(US) | F.C.(US) | -         | -        | -      | -        |
| 11:30-12:10 | -        | -        | -         | F.C.(US) | -      | -        |

**WEEKLY WORKLOAD**

| SR NO | SUBJECT          | WEEKLY WORKLOAD |
|-------|------------------|-----------------|
| 1     | BOTANY F.Y.B.Sc. | 6               |
| 2     | BOTANY Practical | 6               |
| 3     | FC FY            | 3               |
| 4     | FC SY            | 3               |
| 5     | TOTAL            | 18              |

*Usha*  
**SUBJECT TEACHER**

*Usha*  
**HEAD OF DEPARTMENT**

*P.P. Mahajan*  
**PRINCIPAL**



*P.P. Mahajan*  
**I/C PRINCIPAL**  
**SES'S S. M. Dadasaheb Limaye**  
**ACS College, Kalamboli,**  
**Tal. - Panvel, Dist. - Thane**

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली,  
(शैक्षणिक वर्ष २०२२-२३)

15-06-2022

सूचना

महाविद्यालयातील मराठी विषय शिक्षकांची सत्र प्रथमची (शैक्षणिक वर्ष २०२२-२३) सभा दिनांक 16-06-2022 रोजी आयोजित केली आहे. तरी मराठी विभागातील सर्व शिक्षकांनी दुपारी 1.00 pm ते 2.00 pm या वेळेत उपस्थित राहावे.



*S. M. Limaye*

**IG PRINCIPAL**

SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

मराठी विभागसभा  
(शैक्षणिक वर्ष २०२२-२३)

मराठी विभाग दिनांक रोजी 15-06-2022 मराठी विषयाच्या शिक्षकांची प्रथम सत्राच्या सुरुवातीची सभा माननीय प्राचार्य कक्षामध्ये दुपारी 1.00 pm ते 2.00 pm या वेळेत पार पडली.

### मिटिंग अजेंडा

1. Teaching plan
2. individual Time Table
3. मराठी विभागाच्या वार्षिक नियोजनाचा आराखडा
4. Study material , Offline क्लासेस, Assignment, Test
5. टी वाय बी ए (T.Y.B.A.) च्या विद्यार्थ्यांसाठी प्रोजेक्ट चे विषय
6. पालक सभा व सांस्कृतिक स्थळांना भेटी .
7. सर्टिफिकेट कोर्स
8. Use of ICT in Teaching , learning.
9. Google Classroom and Study material.

### Minutes of Meeting मिनिट्स ऑफ मीटिंग

1. 2022 - 23 या वर्षाचा Teaching plan तयार करण्यासंदर्भात चर्चा करण्यात आली.
2. individual Time Table तयार करण्यासंदर्भात चर्चा करण्यात आली.
3. मराठी विषयाच्या वार्षिक नियोजनाचा आराखडा तयार करण्यासंदर्भात चर्चा करण्यात आली.
4. अभ्यासक्रमाचे सर्व मटेरियल पुरवण्या संदर्भात चर्चा करण्यात आली.
5. Google Classroom माध्यमातून Assignment आणि प्रोजेक्ट वर्क विद्यार्थ्यांकडून पूर्ण करून घेणे.
6. Parents Meeting & Industrial Visit. करण्यासंदर्भात चर्चा करण्यात आली.
7. Certificate Course कोणता घ्यायचा या संदर्भात चर्चा करण्यात आली.
8. जादा तासिकांच्या संदर्भात चर्चा करण्यात आली.



मराठी विभाग

1) प्रा. डॉ. मनीषा बनसोडे

2) डॉ. रमेश जाधवर

*[Handwritten signatures]*

*[Handwritten signature]*  
INCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalambooli,  
Tal. - Panvel, Dist. - Raigad.

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली

मराठी विभाग  
(शैक्षणिक वर्ष २०२२-२३)

**प्रथम सत्राचा Action Taken Report**

1. Teaching plan and individual Time Table तयार करण्यात आले.
2. मराठी विभागाच्या वार्षिक नियोजनाचा आराखडा तयार करण्यात आला.
3. एफ. वाय. बी. ए., एस. वाय. बी. ए आणि टी. वाय. बी. ए. च्या विद्यार्थ्यांचे वर्गनिहाय Google Classroom उघडण्यात आले.
4. वेळापत्रकानुसार तासिका घेण्यात आल्या.
5. विद्यार्थ्यांना Google Classroom माध्यमातून अभ्यासक्रमा संबंधीची माहिती तसेच मटेरियल पुरविण्यात आले.
6. Syllabus Completion Report तयार करण्यात आला.
7. विद्यार्थ्यांचे प्रोजेक्ट वर्क पूर्ण करून घेण्यात आले.
8. Study material , Offline क्लासेस, Assignment, Test घेण्यात आले.
9. टी वाय बी ए (T.Y.B.A.) च्या विद्यार्थ्यांसाठी प्रोजेक्ट घेण्यात आले.



मराठी विभाग

1) प्रा. डॉ. मनीषा बनसोडे

2) डॉ. रमेश जाधवर

*S. Kamble*  
*(Signature)*

*S. Kamble*  
**UG PRINCIPAL**  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalambolee,  
Tal. - Panvel, Dist. - Raigad,

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

द्वितीय सत्र  
मराठी विभाग सभा  
(शैक्षणिक वर्ष २०२२-२३)

दिनांक 17 - 11 - 2022 रोजी मराठी विषयांच्या शिक्षकांची द्वितीय सत्रातील प्रथम सभा माननीय प्राचार्य कक्षामध्ये  
दुपारी 2:00 ते 3:00 pm या वेळेत पार पडली.

मिटिंगचा अजेंडा

1. मागील सभेचे इतिवृत्त.
2. द्वितीय सत्रातील अभ्यासक्रम
3. सेमिस्टर II, IV and VI चे मटेरियल
4. Project Work
5. सर्टिफिकेट कोर्स
6. Faculty Exchange

Minutes of Meeting

1. मागील सभेचे इतिवृत्त वाचून दाखवण्यात आले
2. Google Classroom माध्यमातून विद्यार्थ्यांना सेमिस्टर II, IV and VI चे मटेरियल पुरवण्या संदर्भात चर्चा करण्यात आली
3. प्रोजेक्ट वर्क विद्यार्थ्यांकडून पूर्ण करून घेण्यासंदर्भात चर्चा करण्यात आली.
4. सर्टिफिकेट कोर्स चे आयोजन करण्यासंदर्भात चर्चा करण्यात आली.
5. Faculty Exchange संबंधात चर्चा करण्यात आली.
6. अभ्यास सहली संदर्भात चर्चा करण्यात आली.

मराठी विभाग

- 1) प्रा. डॉ. मनीषा बनसोडे
- 2) डॉ. रमेश जाधवर


  
Vice Principal  
SES'S S. M. Dadasehab Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.



शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

मराठी विभाग सभा  
शैक्षणिक वर्ष २०२२-२३)

दिनांक 29 -04- 2023 रोजी मराठी विषयाच्या शिक्षकांची द्वितीय सत्र समाप्ती सभा माननीय प्राचार्य कक्षामध्ये दुपारी 2:15 PM ते 3:15 .PM या वेळेत पार पडली.

### मिटिंग अर्जेडा

1. मागील सभेचा सभेचे इतिवृत
2. Syllabus completion
3. सेमिस्टर II, IV and VI चे मटेरियल चा अभ्यासक्रम व मटेरियल ची उपलब्धता
4. प्रोजेक्ट वर्क
5. सर्टिफिकेट कोर्स चा अभ्यासक्रम व मटेरियल ची उपलब्धता.

### Minutes of Meeting

1. मागील सभेचे इतिवृत वाचून दाखवण्यात आले
2. अभ्यासक्रम पूर्ण झाल्याचा अहवाल तयार करण्यासंबंधी चर्चा करण्यात आली
3. विद्यार्थ्यांचे प्रकल्पाचे कामकाज प्रोजेक्ट वर्क पूर्ण करून घेण्यासंबंधी चर्चा करण्यात आली
4. सेमिस्टर II, IV and VI चे मटेरियल चा अभ्यासक्रम व मटेरियल विद्यार्थ्यांना पोचल्याची खात्री करून घेऊन त्यांना परीक्षा संबंधी माहिती देऊन त्यांच्या अडचणी जाणून घ्याव्यात व त्या सोडविण्याच्या संदर्भात कोणते प्रयत्न करावेत त्यासंबंधी चर्चा करण्यात आली

मराठी विभाग

- 1) प्रा. डॉ. मनीषा बनसोडे
- 2) डॉ. रमेश जाधवर


  
VC PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboi.  
Tal. - Panvel, Dist. - Raigad.



शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय  
कळंबोली.

मराठी विभाग सभा  
(शैक्षणिक वर्ष २०२२-२३)

द्वितीय सत्र Action Taken Report

- 1 .Google Classroom माध्यमातून विद्यार्थ्यांना सेमिस्टर II,IV and VI सर्व मटेरियल पुरविण्यात आले.
- 2 . विद्यार्थ्यांचे प्रोजेक्ट वर्क पूर्ण करून घेण्यात आले
- 3 . मराठी भाषा दिनाचा कार्यक्रम घेण्यात आला .
- 4 . Industrial Visit करण्यात आली
- 5 . अभ्यासक्रम पूर्ण अहवाल तयार करण्यात आला



मराठी विभाग

- 1) प्रा. डॉ. मनीषा बनसोडे
- 2) डॉ. रमेश जाधवर

*M. Banasode*  
*R. Jadhav*

*P. P. Mahajan*  
PRINCIPAL  
S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.



शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.  
(शैक्षणिक वर्ष 2022-23)

भूगोल विभाग

दिनांक : 18/06/2022

सुचना

महाविद्यालयातील भूगोल विषय शिक्षकांची सत्र प्रथमची  
(शैक्षणिक वर्ष 2022-23) सभा दिनांक 22/06/2022 रोजी आयोजित  
केली आहे. तरी भूगोल विभागातील सर्व शिक्षकांनी दुपारी 12:30 ते 1:30  
या वेळेत उपस्थित राहावे.

*P. Mahajan*  
डॉ. महाजन पी. पी.

भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.



*S. M. D. L.*

प्राचार्य

I/C PRINCIPAL

SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel Dist - Raigad.

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

भूगोल विभागसभा  
(शैक्षणिक वर्ष 2022-23)

भूगोल विभाग दिनांक रोजी 22/06/2022 भूगोल विषयाच्या शिक्षकांची प्रथम सत्राच्या सुरुवातीची सभा मा. प्राचार्य कक्षामध्ये दुपारी 12:30 pm ते 1:30 pm या वेळेत पार पडली.

मिटिंग अर्जेडा

1. Teaching plan
2. individual Time Table
3. भूगोल विभागाच्या वार्षिक नियोजनाचा आराखडा
4. Lecture, Assignment क्लासेस, असाइन्मेंट
5. T.Y.B.A. च्या विद्यार्थ्यांसाठी प्रोजेक्ट चे विषय

Minutes of Meeting मिनिट्स ऑफ मीटिंग

1. 2022-23 या वर्षाचा Teaching plan तयार करण्यासंदर्भात चर्चा करण्यात आली.
2. individual Time Table तयार करण्यासंदर्भात चर्चा करण्यात आली.
3. भूगोल विषयाच्या वार्षिक नियोजनाचा आराखडा तयार करण्यासंदर्भात चर्चा करण्यात आली.
4. Google Classroom माध्यमातून अभ्यासक्रमाचे सर्व मटेरियल पुरवण्या संदर्भात चर्चा करण्यात आली.
5. Assignment आणि प्रोजेक्ट वर्क विद्यार्थ्यांकडून पूर्ण करून घेणे.


  
1) डॉ. महाजन्त पी. पी.  
भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.



  
प्राचार्य

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

2) माळी पी. पी. (सहा. शिक्षक) 

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली  
भूगोल विभाग  
(शैक्षणिक वर्ष 2022-23)

दिनांक : 30/10/2022

सुचना

महाविद्यालयातील भूगोल विषय शिक्षकांची प्रथम सत्र समाप्तीची (शैक्षणिक वर्ष 2022-23) सभा दिनांक 02/11/2022 रोजी आयोजित केली आहे. तरी भूगोल विभागातील सर्व शिक्षकांनी दुपारी 1:00 ते 2:00 या वेळेत उपस्थित राहावे .

1)   
डॉ. महाजन पी. पी.  
भूगोल विभाग प्रमुख  
Head  
Department of Geography  
S. M. D. L. College, Kalamboli.



  
प्राचार्य

HC PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

2)   
माळी पी. पी. (सहा. शिक्षक)

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

भूगोल विभाग  
(शैक्षणिक वर्ष 2022-23)

दिनांक: 15/11/2022

सुचना

महाविद्यालयातील भूगोल विषय शिक्षकांची सत्र द्वितीयची (शैक्षणिक वर्ष 2022-23) सभा दिनांक 21/11/2022 रोजी आयोजित केली आहे. तरी भूगोल विभागातील सर्व शिक्षकांनी दुपारी 1:00 ते 2:00 या वेळेत उपस्थित राहावे.

1) डॉ. महाजन पी. पी.  
भूगोल विभाग प्रमुख  
Head  
Department of Geography  
S. M. D. L. College, Kalamboli.



प्राचार्य  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

2) माळी पी. पी. (सहा. शिक्षक)

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

भूगोल विभाग (शैक्षणिक वर्ष 2022-23)

द्वितीय सत्र

दिनांक 21/11/2022 रोजी भूगोल विषयांच्या शिक्षकांची द्वितीय सत्रातील प्रथम सभा माननीय प्राचार्य कक्षामध्ये दुपारी 1.00 ते 2.00 pm या वेळेत पार पडली.

मिटिंगचा अजेंडा

1. मागील सभेचे इतिवृत.
2. द्वितीय सत्रातील अभ्यासक्रम
3. सेमिस्टर II, IV and VI चे मटेरियल
4. Project Work
5. Faculty Exchange
6. career guidance lecture
7. World Geography Day
8. Study Tour / Village Survey

Minutes of Meeting

1. मागील सभेचे इतिवृत वाचून दाखवण्यात आले
2. offline विद्यार्थ्यांना लेक्चर्स आणि Google Classroom माध्यमातून विद्यार्थ्यांना सेमिस्टर II, IV and V चे मटेरियल पुरवण्या संदर्भात चर्चा करण्यात आली
3. प्रोजेक्ट वर्क विद्यार्थ्यांकडून पूर्ण करून घेण्यासंदर्भात चर्चा करण्यात आली.
4. World Geography Day चे आयोजन करण्यासंदर्भात चर्चा करण्यात आली.
5. Study Tour / Village Survey चे आयोजन करण्यासंदर्भात चर्चा करण्यात आली.
6. Faculty Exchange संबंदात चर्चा करण्यात आली.

1) डॉ. महाजन प्र. पी.  
भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.

2) माळी पी.पी. (सहा. शिक्षक)



प्राचार्य

VC PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.  
भूगोल विभाग  
(शैक्षणिक वर्ष 2022-23)

दिनांक: 17/02/2023

सुचना

T. Y. B. A. (Geography) च्या सर्व विद्यार्थ्यांना सूचित करण्यात येते की, दिनांक 20/02/2023 रोजी पालक सभेचे आयोजन करण्यात आलेले आहे. तरी सर्व विद्यार्थ्यांनी पालकांसोबत सभेसाठी सकाळी 9:00 ते 10:00 या वेळेत उपस्थित राहावे

*PP Mahajan*

डा. महाजन पी. पी.  
भूगोल विभाग प्रमुख  
Head

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*PP Mahajan*

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

दिनांक 20/02/2023

T. Y. B. A. (Geography) च्या वर्गामध्ये आज  
दिनांक 20/02/2023 रोजी पाठक सभा संपन्न झाली आजच्या  
पाठक सभेसाठी स्वालीन पाठक उपस्थित होते.

| क्र.सं. | विद्यार्थ्यांचे नाव                      | पाठकांचे नाव         | स्त्री<br>(पाठकांची) |
|---------|--|----------------------|----------------------|
| 1)      | सोमल पराग शिंदे                          | स्वाती पराग शिंदे    | S. P. Shinde         |
| 2)      | शोभेश सदाशिव पवार                        | अतिना सदाशिव पवार    | A. Pawar             |
| 3)      | काशिवनी धनाजी रूपनवर                     | पिंका धनाजी रूपनवर   | P. D. R.             |
| 4)      | त्रंदा रामचंद्र कन्ये                    | सैतोष रामचंद्र कन्या | J. K. K.             |
| 5)      | सदाशिव सुभाष नाईक<br>आश्रमता सदाशिव नाईक | सदाशिव सुभाष नाईक    | S. S. Naik           |
| 6)      | शेणुका राजेंद्र राऊळ                     | राशिणी राजेंद्र राऊळ | R. R.                |
| 7)      | टाशिता हनुमंत पाटील                      | हनुमंत पाटील         | H. M. Patil          |
| 8)      | नंदलाल नवक नाईक                          | नवक म. नाईक          | N. K.                |
| 9)      | मतेवा माकती साकुंखे                      | माकती साकुंखे        | M. K.                |

P. M. Mahajan  
ठा. महाजन पी. पी.  
भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.

P. M. Mahajan  
प्राचार्य

HC PRINCIPAL  
SES'S S. M. D. L. College, Kalamboli  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

P. Mahajan  
माकती पी. पी.  
(सहा. शिक्षक)



शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

भूगोल विभाग  
(शैक्षणिक वर्ष 2022-23)

दिनांक: 22/02/2023

सुचना

T. Y. B. A. (Geography) च्या सर्व विद्यार्थ्यांना सूचित करण्यात येते की, पेपर क्रमांक VI (Practical) साठी अभ्यास सहल अनिवार्य आहे. तरी अभ्यासहलीच्या आयोजनाच्या संदर्भात दिनांक 24/02/2023 रोजी सकाळी 10:00 वाजता मिटींग भूगोल वर्गामध्ये आयोजित करण्यात आलेली आहे. तरी सर्व विद्यार्थ्यांनी मिटींगला उपस्थित राहावे.

  
डॉ. महमजन पी. पी.  
भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.

  
प्रचार्या

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.



24/02/2023

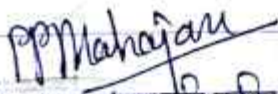
दिनांक 24/02/2023 रोजी अभ्यास सहलीच्या संदर्भात भूगोलाच्या वर्गामध्ये सकाळी 10:00 वाजता मिटींग सुरु झाली.


मिटींग अजेडा


- 1) अभ्यास सहलीची ठिकाणे निवडणे
- 2) अभ्यास सहलीची तारिख ठरविणे
- 3) सहलीला येणारा खर्च

Minutes of Meeting

- 1) अभ्यास सहलीसाठी निवडण्यात येणाऱ्या ठिकाणाच्या संदर्भात चर्चा करण्यात आली.
- 2) अभ्यास सहल किती दिवसाची व कोणत्या दिवशी आयोजित करावी या संदर्भात चर्चा करण्यात आली.
- 3) विद्यार्थ्यांची आर्थिक परिस्थिती लक्षात घेवून अभ्यास सहलीसाठी येणाऱ्या खर्चाचे नियोजन करण्यात आले.

  
डॉ. महजन पी. पी.  
भूगोल विभाग प्रमुख  
Head  
Department of Geography  
S. M. D. L. College, Kalamboli.

  
प्राचार्य  
H/O. P. N. C. L.  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

  
माळी पी. पी.  
सहा. प्राध्यापक



शिक्षण महर्षी दादासाहेब लिमये कला,वाणिज्य व विज्ञान महाविद्यालय कळंबोली.  
भूगोल विभाग सभा  
(शैक्षणिक वर्ष 2022-23)

27/03/2023

सुचना

महाविद्यालयातील भूगोल विषय शिक्षकांची सत्र द्वितीय समाप्ती (शैक्षणिक वर्ष 2022-23) सभा दिनांक 31/03/2023 रोजी आयोजित केली आहे तरी भूगोल विभागातील सर्व शिक्षकांनी दुपारी 12.30 ते 1.30 या वेळेत उपस्थित राहावे .

*P. Mahajan*

डॉ. महाजन पी. पी.

भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.



*S. M. D. L. College*

प्राचार्य

11/6 PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.  
भूगोल विभाग सभा  
(शैक्षणिक वर्ष 2022-23)

दिनांक 31/03/2023 रोजी भूगोल विषयाच्या शिक्षकांची द्वितीय सत्र समाप्ती सभा  
माननीय प्राचार्य कक्षामध्ये दुपारी 12.30 PM ते 1.30 PM या वेळेत पार पडली.

**मिटिंग अजेंडा**

1. मागील सभेचा सभेचे इतिवृत्त
2. Syllabus completion
3. सेमिस्टर II, IV and VI चे मटेरियल चा अभ्यासक्रम व मटेरियल ची उपलब्धता
4. प्रोजेक्ट वर्क
5. Study Tour चे आयोजन करण्यात आले.

**Minutes of Meeting**

1. मागील सभेचे इतिवृत्त वाचून दाखवण्यात आले
2. अभ्यासक्रम पूर्ण झाल्याचा अहवाल तयार करण्यासंबंधी चर्चा करण्यात आली
3. विद्यार्थ्यांचे प्रकल्पाचे कामकाज प्रोजेक्ट वर्क पूर्ण करून घेण्यासंबंधी चर्चा करण्यात आली
4. सेमिस्टर II, IV and VI चे मटेरियल चा अभ्यासक्रम व मटेरियल विद्यार्थ्यांना पोचल्याची खात्री करून घेऊन त्यांना परीक्षा संबंधी माहिती देऊन त्यांच्या अडचणी जाणून घ्याव्यात व त्या सोडविण्याच्या संदर्भात कोणते प्रयत्न करावेत त्यासंबंधी चर्चा करण्यात आली.
5. Study Tour चे आयोजन करण्यात आले.

*PP Mahajan*  
1) डॉ. महाजन पी. पी.  
भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.



*PP Mahajan*  
प्राचार्य

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

*P. Mali*  
१) माळी पी. पी. (सहा. शिक्षक)

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

भूगोल विभाग

(शैक्षणिक वर्ष 2022-23)

**प्रथम सत्राचा Action Taken Report**

1. Teaching plan and individual Time Table तयार करण्यात आले.
2. भूगोल विभागाच्या वार्षिक नियोजनाचा आराखडा तयार करण्यात आला.
3. मा. प्राचार्यांच्या सूचनेनुसार एफ. वाय. बी. ए., एस. वाय. बी. ए आणि टी. वाय. बी. ए. F.Y.B. Com च्या विद्यार्थ्यांचे वर्गनिहाय्य Google Classroom उघडण्यात आले.
4. वेळापत्रकानुसार college made तासिका घेण्यात आल्या.
5. विद्यार्थ्यांना Google Classroom माध्यमातून अभ्यासक्रमा संबंधीची माहिती तसेच मटेरियल पुरविण्यात आले.
6. Syllabus Completion Report तयार करण्यात आला.
7. विद्यार्थ्यांचे प्रोजेक्ट वर्क पूर्ण करून घेण्यात आले.
8. विद्यापीठाच्या मार्गदर्शक सूचनेनुसार सराव परीक्षा घेण्यात आली
9. State level webinar for student on preparation of competitive exam

1) डॉ. महाजन पी. पी.

भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.

2) माळी पी. पी. (सहा. शिक्षक)



*S. M. D. L.*

प्राचार्य

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

भूगोल विभाग सभा

(शैक्षणिक वर्ष 2022-23)

द्वितीय सत्र Action Take Report

1. Study Tour चे आयोजन करण्यात आले.
2. Google Classroom माध्यमातून विद्यार्थ्यांना सेमिस्टर II, IV and VI सर्व मटेरियल पुरविण्यात आले.
3. विद्यार्थ्यांचे प्रोजेक्ट वर्क पूर्ण करून घेण्यात आले.
4. Faculty Exchange Program करण्यात आला.
5. अभ्यासक्रम पूर्ण अहवाल तयार करण्यात आला.

1) डॉ. महाजन पी. पी.

भूगोल विभाग प्रमुख  
Head

Department of Geography  
S. M. D. L. College, Kalamboli.



प्रिन्सिपल  
प्राचार्य

Principal  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

2) माळी पी. पी. (सहा. शिक्षक)


शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.  
(शैक्षणिक वर्ष २०२२-२३)

14-06-2022

सुचना

महाविद्यालयातील अर्थशास्त्र विषय शिक्षकांची सत्र प्रथमची सुरुवातीची (शैक्षणिक वर्ष २०२२-२३) सभा दिनांक 15-06-2022 रोजी आयोजित केली आहे. तरी अर्थशास्त्र विभागातील सर्व शिक्षकांनी दुपारी 1.30 pm ते 2.30 pm या वेळेत उपस्थित राहावे.



  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

अर्थशास्त्र विभागसभा  
(शैक्षणिक वर्ष २०२२-२३)

अर्थशास्त्र विभाग दिनांक रोजी 15-06-2022 अर्थशास्त्र विषयाच्या शिक्षकांची प्रथम सत्राच्या सुरुवातीची सभा माननीय प्राचार्य कक्षामध्ये दुपारी 1.30 pm ते 2.30 pm या वेळेत पार पडली.

### मिटिंग अजेंडा

1. Teaching plan
2. individual Time Table
3. अर्थशास्त्र विभागाच्या वार्षिक नियोजनाचा आराखडा
4. Study material , Offline क्लासेस, Assignment, Test
5. टी वाय बी ए (T.Y.B.A.) च्या विद्यार्थ्यांसाठी प्रोजेक्ट चे विषय
6. Parents Meeting & Industrial Visit.
7. Introduction of Certificate Course
8. Use of ICT in Teaching , leering.
9. goole Classroom and Study material.


### Minutes of Meeting मिनिट्स ऑफ मीटिंग

1. 2022 - 23 या वर्षाचा Teaching plan तयार करण्यासंदर्भात चर्चा करण्यात आली.
2. individual Time Table तयार करण्यासंदर्भात चर्चा करण्यात आली.
3. अर्थशास्त्र विषयाच्या वार्षिक नियोजनाचा आराखडा तयार करण्यासंदर्भात चर्चा करण्यात आली.
4. अभ्यासक्रमाचे सर्व मटेरियल पुरवण्या संदर्भात चर्चा करण्यात आली.
5. Google Classroom माध्यमातून Assignment आणि प्रोजेक्ट वर्क विद्यार्थ्यांकडून पूर्ण करून घेणे.
6. Parents Meeting & Industrial Visit. करण्यासंदर्भात चर्चा करण्यात आली.
7. Certificate Course कोणता घ्यायचा या संदर्भात चर्चा करण्यात आली.
8. जादा तासिकांच्या संदर्भात चर्चा करण्यात आली.

अर्थशास्त्र विभाग

1. महाजन संजय बाबुराव

2. साळुंखे वसुंधरा दत्ताराम

  
H.C. PRINCIPAL  
SESS S. M. Da. Saahab Limaye  
AGS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.



3. शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली

अर्थशास्त्र विभाग  
(शैक्षणिक वर्ष २०२२-२३)

**प्रथम सत्राचा Action Taken Report**

1. Teaching plan and individual Time Table तयार करण्यात आले.
2. अर्थशास्त्र विभागाच्या वार्षिक नियोजनाचा आराखडा तयार करण्यात आला.
3. एफ. वाय. बी. ए., एस. वाय. बी. ए आणि टी. वाय. बी. ए. च्या विद्यार्थ्यांचे वर्गनिहाय Google Classroom उघडण्यात आले.
4. वेळापत्रकानुसार तासिका घेण्यात आल्या.
5. विद्यार्थ्यांना Google Classroom माध्यमातून अभ्यासक्रमा संबंधीची माहिती तसेच मटेरियल पुरविण्यात आले.
6. Syllabus Completion Report तयार करण्यात आला.
7. विद्यार्थ्यांचे प्रोजेक्ट वर्क पूर्ण करून घेण्यात आले.
8. Study material , Offline क्लासेस, Assignment, Test घेण्यात आले.
9. टी वाय बी ए (T.Y.B.A.) च्या विद्यार्थ्यांसाठी प्रोजेक्ट घेण्यात आले.

अर्थशास्त्र विभाग

1. महाजन संजय बाबुराव
2. साळुंखे वसुंधरा दत्ताराम

*Sujay*  
*Beelane*



*S. M. Dadasaheb Limaye*  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalambooli,  
Tal :- Panvel, Dist :- Raigad.



शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

द्वितीय सत्र  
अर्थशास्त्र विभाग सभा  
(शैक्षणिक वर्ष २०२२-२३)

दिनांक 16 11- 2022 रोजी अर्थशास्त्र विषयांच्या शिक्षकांची द्वितीय सत्रातील प्रथम सभा माननीय प्राचार्य कक्षामध्ये दुपारी 1.10 ते 2.10 pm या वेळेत पार पडली.

मिडिंगचा अजेंडा

1. मागील सभेचे इतिवृत्त.
2. द्वितीय सत्रातील अभ्यासक्रम
3. सेमिस्टर II,IV and VI चे मटेरियल
4. Project Work
5. सर्टिफिकेट कोर्स
6. Faculty Exchange
7. Food Festival and career guidance lecture

Minutes of Meeting

1. मागील सभेचे इतिवृत्त वाचून दाखवण्यात आले
2. Google Classroom माध्यमातून विद्यार्थ्यांना सेमिस्टर II,IV and VI चे मटेरियल पुरवण्या संदर्भात चर्चा करण्यात आली
3. प्रोजेक्ट वर्क विद्यार्थ्यांकडून पूर्ण करून घेण्यासंदर्भात चर्चा करण्यात आली.
4. सर्टिफिकेट कोर्स ERM चे आयोजन करण्यासंदर्भात चर्चा करण्यात आली.
5. फूड फेस्टिवल आयोजित करण्यासंबंधात चर्चा करण्यात आली.
6. Faculty Exchange संबंदात चर्चा करण्यात आली.
7. Industrial Visit संबंदात चर्चा करण्यात आली.

अर्थशास्त्र विभाग

1. महाजन संजय बाबुराव
2. साळुंखे वसुंधरा दत्ताराम

*Sujay*  
*Basane*

*S. M. Limaye*  
I/C प्राचार्य  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.



शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय कळंबोली.

अर्थशास्त्र विभाग सभा

शैक्षणिक वर्ष २०२२-२३)

दिनांक 28 -04- 2023 रोजी अर्थशास्त्र विषयाच्या शिक्षकांची द्वितीय सत्र समाप्ती सभा माननीय प्राचार्य कक्षामध्ये दुपारी 1.10 PM ते 2.10.PM या वेळेत पार पडली.

मिटिंग अजेंडा

- 1.मागील सभेचा सभेचे इतिवृत्त
2. Syllabus completion
3. सेमिस्टर II,IV and VI चे मटेरियल चा अभ्यासक्रम व मटेरियल ची उपलब्धता
4. प्रोजेक्ट वर्क
5. सर्टिफिकेट कोर्स चा अभ्यासक्रम व मटेरियल ची उपलब्धता.

#### Minutes of Meeting

1. मागील सभेचे इतिवृत्त वाचून दाखवण्यात आले
2. अभ्यासक्रम पूर्ण झाल्याचा अहवाल तयार करण्यासंबंधी चर्चा करण्यात आली
3. विद्यार्थ्यांचे प्रकल्पाचे कामकाज प्रोजेक्ट वर्क पूर्ण करून घेण्यासंबंधी चर्चा करण्यात आली
4. सेमिस्टर II,IV and VI चे मटेरियल चा अभ्यासक्रम व मटेरियल विद्यार्थ्यांना पोचल्याची खात्री करून घेऊन त्यांना परीक्षा संबंधी माहिती देऊन त्यांच्या अडचणी जाणून घ्याव्यात व त्या सोडविण्याच्या संदर्भात कोणते प्रयत्न करावेत त्यासंबंधी चर्चा करण्यात आली

अर्थशास्त्र विभाग

1. महाजन संजय बाबुराव
2. साळुंखे वसुंधरा दत्ताराम

*Sujay*  
*Basu*

*P. Mahajan*  
H/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamoli,  
Tal :- Panvel, Dist :- Raigad.



शिक्षण महर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय  
कळंबोली.

अर्थशास्त्र विभाग सभा  
शैक्षणिक वर्ष २०२२-२३)

द्वितीय सत्र Action Take Report

1. ERM सर्टिफिकेट कोर्स घेण्यात आला.
2. Career Guidance Program करियर गायडन्स कार्यक्रम घेण्यात आला.
3. Google Classroom माध्यमातून विद्यार्थ्यांना सेमिस्टर II, IV and VI सर्व मटेरियल पुरविण्यात आले.
4. विद्यार्थ्यांचे प्रोजेक्ट वर्क पूर्ण करून घेण्यात आले
5. विद्यार्थ्यांचा फूड फेस्टिवल कार्यक्रम घेण्यात आला.
6. Industrial Visit करण्यात आला
7. अभ्यासक्रम पूर्ण अहवाल तयार करण्यात आला

अर्थशास्त्र विभाग

1. महाजन संजय बाबुराव

*Sanjay*

2. साळुंखे वसुंधरा दत्ताराम

*Vasundhara*

*P. Mahajan*  
I/C प्राचार्य IPAL  
SES'S S. M. Dasasheh Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.



शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय, कळंबोली

इतिहास विभाग - बैठक अहवाल

दिनांक: 20/08/2023

आज इतिहास विभागातील प्राध्यापकांची बैठक आयोजित करण्यात आली होती- त्यामध्ये खालील मुद्यांवर चर्चा होवून निर्णय झाले.

1. एफ. वाय. एस. वाय. टी वाय बी ए इतिहास विभागातील विद्यार्थ्यांची शैक्षणिक सहल काढणे.
2. दोन सत्रामध्ये दोन वेळा विद्यार्थ्यांची शैक्षणिक काढणे.
3. पहिली शैक्षणिक सहल ऑगस्ट 2023 मध्ये मुंबई येथे दफतरशाखात व वस्तुसंग्रहालय मध्ये काढण्यात येईल.
4. दुसरी शैक्षणिक सहल फेब्रुवारी 2023 मध्ये कोकण किनारपट्टी येथे काढण्यात येईल.
5. सहलीसाठीचे नियोजन प्राध्यापक व विद्यार्थी यांनी करणे.
6. सहलीसाठीचे खर्च व इतर बाबी विद्यार्थी प्रतिनिधिनी पहावे.
7. सहलीचे अहवाल विद्यार्थ्यांनी विभागात जमा करावेत.

वरील बैठकी मध्ये वरील प्राध्यापक उपस्थित होते.

- |                        |                          |
|------------------------|--------------------------|
| 1. प्राचार्या          | - प्रा. डॉ. मनीषा बनसोडे |
| 2. इतिहास विभाग प्रमुख | - प्रा. डॉ. बी. बी. जाधव |
| 3. विषय शिक्षक         | - सहा. प्रा. अविनाश पवार |

*[Signature]*

*[Signature]*

*[Signature]*



*[Signature]*

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Panvel, Dist. - Raigad.

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय, कळंबोली

इतिहास विभाग - बैठक अहवाल

दिनांक: 24/08/2022

आज इतिहास विभागातील प्राध्यापकांची बैठक आयोजित करण्यात आली होती- त्यामध्ये खालील मुद्द्यांवर चर्चा होवून निर्णय झाले.

1. टी.वाय.बी.ए. गुणवत्ता सुधार योजनेअंतर्गत मागील वर्षाच्या प्रत्येका एक प्रश्नपत्रिका सोडवून घेणे.
2. टी.वाय.बी.ए. गुणवत्ता सुधार योजनेअंतर्गत पूर्वपरीक्षेचे आयोजन करणे
3. टी.वाय.बी.ए. विद्यार्थ्यांच्या slow learner आणि advance learner साठी व्याख्यान वेळापत्रक बनविणे.
4. विद्यार्थ्यांचे दोन सत्रातील ppt Presentation घेणे.
5. इतिहास विभागातील विद्यार्थ्यांसाठी Historical film चे आयोजन करणे

वरील बैठकी मध्ये वरील प्राध्यापक उपस्थित होते.

- |                        |                          |
|------------------------|--------------------------|
| 1. प्राचार्या          | - प्रा. डॉ. मनीषा बनसोडे |
| 2. इतिहास विभाग प्रमुख | - प्रा. डॉ. बी.बी. जाधव  |
| 3. विषय शिक्षक         | - सहा. प्रा. अविनाश पवार |



W/O PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय, कळंबोली

इतिहास विभाग - बैठक अहवाल

दिनांक: 10/02/2023

आज इतिहास विभागातील प्राध्यापकांची बैठक आयोजित करण्यात आली होती- त्यामध्ये खालील मुद्द्यांवर चर्चा होवून निर्णय झाले.

1. 17 फेब्रुवारी रोजी छत्रपती शिवाजी महाराज जयंती साजरी करणे.
2. छत्रपती शिवाजी महाराज जयंती निमित्त वक्तृत्व स्पर्धा, निबंध स्पर्धा व वेशभूषा स्पर्धेचे आयोजन करणे.
3. स्पर्धेमध्ये सहभागी विद्यार्थ्यांना प्रमाणपत्र व परितोषके देणे
4. कार्यक्रमाचे नियोजन इतिहास विभागातील विद्यार्थ्यांनी करणे.
5. सूत्रसंचालन व आभार प्रदर्शन अनुक्रमे अपूर्वा पवार व जयश्री इंगोळे यांनी करावे.

वरील बैठकी मध्ये वरील प्राध्यापक उपस्थित होते.

- |                        |                          |
|------------------------|--------------------------|
| 1. प्राचार्या          | - प्रा. डॉ. प्रिती महाजन |
| 2. इतिहास विभाग प्रमुख | - प्रा. डॉ. बी. बी. जाधव |
| 3. विषय शिक्षक         | - सहा. प्रा. अविनाश पवार |

*PPMahajan*  
*Prati*  
*amp*



*PPMahajan*  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal - Panvel, Dist. - Raigad.

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य व विज्ञान महाविद्यालय, कळंबोली

इतिहास विभाग - बैठक अहवाल

दिनांक: 01/04/2023

आज इतिहास विभागातील प्राध्यापकांची बैठक आयोजित करण्यात आली होती- त्यामध्ये खालील मुद्द्यांवर चर्चा होवून निर्णय झाले.

1. दिनांक 08.04.2023 स्थानिक इतिहासलेखण या विषयावर विद्यार्थी सेमिनार आयोजित करणे.
2. सेमिनार चे नियोजन इतिहास विभागातील पदवी व पदवीत्तर विद्यार्थी करतील.
3. सेमिनारच्या प्रमुख अध्यक्ष म्हणून प्राचार्या डॉ. प्रीती महाजन या सेमिनारला उपस्थित असतील.
4. सेमिनार मध्ये विद्यार्थी त्यांचे संशोधन लेख किंवा प्रकल्प सादरीकरण करतील.
5. सहभागी विद्यार्थ्यांना प्रमाणपत्र देण्यात येतील.

वरील बैठकी मध्ये वरील प्राध्यापक उपस्थित होते.

- |                        |                          |
|------------------------|--------------------------|
| 1. प्राचार्या          | - प्रा. डॉ. प्रीती महाजन |
| 2. इतिहास विभाग प्रमुख | - प्रा. डॉ बी बी जाधव    |
| 3. विषय शिक्षक         | - सहा. प्रा. अविनाश पवार |

*PPMahajan*  
*Prati Mahajan*  
*Prati Mahajan*



*PPMahajan*  
VC PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalambooli,  
Tal. - Panvel, Dist. - Raigad.

**S.E.S's**

**Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College,  
Kalamboli, Navi Mumbai  
Academic Year 2022-23  
Commerce Department**

Date: 19-07-2022

**Notice**

All the faculty members of Commerce Department are hereby informed that the first departmental meeting will be held on 25-07-2022, Monday, to discuss the curriculum of first term. All the professors of Commerce Department should be present at scheduled time and place.

Agenda:-

- 1) Parent-Teacher Meeting
- 2) Departmental Activities
- 3) Completion of IQAC documents

Place :- Principal's office

Time :- 11:00 AM to 12:00 PM

Date :- 25-07-2022

*Machigar*

**Head of the Dept.**  
**Head**

Department of Commerce  
S. M. D. L. College, Kalamboli.



*M Kamble*

**Principal**

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

1. Prof. Machigar Jaya *Machigar*
2. Prof. Dr. Arote Bharti *Bharti*
3. Prof. Kamble Meena *Meena*
4. Prof. Mali Pratiksha *P Mali*
5. Prof. Rawat Seema *Rawat*



S.E.S's

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College,  
Kalamboli, Navi Mumbai  
Academic Year 2023-24  
Commerce Department

Date: 27-07-2022

Report of Meeting

Scheduled Departmental meeting was held on 25-07-2022. The following points were discussed in the meeting:

**Minutes of Meeting**

1. Review of IQAC Documentation
2. Students Discipline
3. Students Attendance
4. Parents-Teachers Meeting
5. Industrial Visit
6. Departmental Activities

*Machigar Jaya*  
**Head of the Dept.**  
Head

Department of Commerce  
S. M. D. L. College, Kalamboli.

*S. Kamble*  
**Principal**

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACSC  
bali.

**Attendees:**

1. **Head of the Dept.** – Prof. Machigar Jaya *Machigar Jaya*
2. Prof. Dr. Arote Bharti *Bharti*
3. Prof. Kamble Meena *Meena*
4. Prof. Mali Pratiksha *Mali*
5. Prof. Rawat Seema *Seema*



S.E.S's

**Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College,  
Kalamboli, Navi Mumbai  
Academic Year 2022-23  
Commerce Department**

Date: 05-12-2022

**Notice**

All the faculty members of Commerce Department are hereby informed that the first departmental meeting will be held on 10-12-2022, Saturday, to discuss the curriculum of Second term. All the professors of Commerce Department should be present at scheduled time and place.

Agenda:-

- 1) Parent-Teacher Meeting
- 2) Departmental Activities
- 3) Completion of IQAC documents

Place :- Principal's office

Time :- 11:00 AM to 12:00 PM

Date :- 10-12-2022

*Prachin*  
**Head of the Dept.**  
**Head**

Department of Commerce  
S. M. D. L. College, Kalamboli

*M. Kamble*

**Principal**  
I/C PRINCIPAL

SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

1. Prof. Machigar Jaya *Machigar*
2. Prof. Dr. Arote Bharti *Bharti*
3. Prof. Kamble Meena *Meena*
4. Prof. Mali Pratiksha *Mali*
5. Prof. Rawat Seema *Rawat*



S.E.S's

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College,  
Kalamboli, Navi Mumbai  
Academic Year 2023-24  
Commerce Department

Date: 14-12-2022

Report of Meeting

Scheduled Departmental meeting was held on 10-12-2022. The following points were discussed in the meeting:

**Minutes of Meeting**

1. Review of IQAC Documentation
2. Students Discipline
3. Students Attendance
4. Parents-Teachers Meeting
5. Industrial Visit
6. Departmental Activities

*Machigar*  
**Head of the Dept.**  
Head  
Department of Commerce  
S. M. D. L. College Kalamboli

*M. Kamble*  
**Principal**

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

**Attendees:**

1. **Head of the Dept.** – Prof. Machigar Jaya *Machigar*
2. Prof. Dr. Arote Bharti *Bharti*
3. Prof. Kamble Meena *Meena*
4. Prof. Mali Pratiksha *Pratiksha*
5. Prof. Rawat Seema *Seema*



**SES's**  
**Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science**  
**College, Kalamboli.**

**Academic Year 2022-23**

Date:- 04/07/2022

**Departmental Meeting Notice for Chemistry**

Dear all Chemistry staff members hereby you are informed that there is a departmental meeting for academic planning is held at 11.30 am on 08/07/2022.

So kindly attend the meeting.



HEAD OF THE DEPARTMENT.

**Head**

Department of Chemistry  
S. M. D. L. College, Kalamboli.



PRINCIPAL

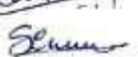
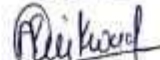
**PRINCIPAL**

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist. - Raigad

STAFF MEMBERS NAME

- Mrs. Varsha Bhagat
- Ms. Aarti Yadav
- Mr. Aniket Gaikwad
- Mr. Snehal Palkar

SIGNATURE



SES's  
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science  
College, Kalamboli.

Academic Year 2022-23

Date:- 08/07/2022

First Semester Meeting Agenda

- Subject distribution.
- Lecture timings
- Individual timetable
- Test schedule
- Practical schedule
- Online class & Assignment through Google Meet
- Teaching plan
- Environmental Awareness Guidance lecture

HEAD OF THE DEPARTMENT.

Head

Department of Chemistry  
S. M. D. C. College, Kalamboli



PRINCIPAL

PRINCIPAL

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad

STAFF MEMBERS NAME

- Mrs. Varsha Bhagat
- Ms. Aarti Yadav
- Mr. Aniket Gaikwad
- Mr. Snehal Palkar

SIGNATURE

### **First Semester Minutes of Meeting of Chemistry**

The meeting was conducted at 11:30 am to 12:30 pm on 08/07/2022 and following minutes were discussed. All the members agreed to the points and the meeting was successful. Following points were covered in the meeting.

- We are discussing subject distribution per subject
- We are discussing about Individual lecture timetable.
- We are scheduled a Practical & Test timing
- We are discussing a scheduled about online class lectures.
- We are discussing about a preparation of teaching plan academic year 2022-23.
- We are discussing & scheduled a lecture on environmental awareness.

**SES's**  
**Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science**  
**College, Kalamboli.**  
**Academic Year 2022-23**

Date:- 17/10/2022

**Departmental Meeting Notice for Chemistry**

Dear all Chemistry staff members hereby you are informed that there is a departmental meeting for academic semester ending is held at 11:30 am to 12:30 pm on 22/10/2022.

So kindly attend the meeting.



*S. M. Dadasaheb Limaye*

**PRINCIPAL**  
**PRINCIPAL**

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad

SES's  
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science  
College, Kalamboli.

Department of Chemistry

Academic Year 2022-23

First Semester Action Taken Report

- Distribution of subject is successfully done according to rule which is provided in syllabus.
- Lecture timing & scheduled successfully done according to timetable & college rules .
- Test are taking & evaluated in given scheduled time.
- Practical's are done in systematic manner & within scheduled timetable.
- Teaching plan is successfully created & followed.
- Conducting online class & assignment through Google meet successfully.
- We are taking a Guidance lecture on Environmental awareness.



HOD  
Head

Department of Chemistry  
S. M. D. L. College, Kalamboli.



PRINCIPAL  
PRINCIPAL

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad



**SES's**  
**Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science**  
**College, Kalamboli.**

**Academic Year 2022-23**

Date:- 25/11/2022

**Departmental Meeting Notice for Chemistry**

Dear all Chemistry staff members hereby you are informed that there is a departmental meeting for academic planning is held at 11.30 am on 29/11/2022. So kindly attend the meeting.



**HEAD OF THE DEPARTMENT**  
**Head**

Department of Chemistry  
S. M. D. L. College, Kalamboli.



**PRINCIPAL**  
**PRINCIPAL**

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Parvel, Dist : Raigad

**STAFF MEMBERS NAME**

- Mrs. Varsha Bhagat
- Ms. Aarti Yadav
- Mr. Aniket Gaikwad
- Ms. Archana Yadav

**SIGNATURE**



**SES'S**  
**Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science**  
**College, Kalamboli.**

**Academic Year 2022-23**

Date: - 29/11/2022

**Second Semester Meeting Agenda**

- Subject distribution.
- Lecture timings
- Individual timetable
- Test schedule
- Practical schedule
- Online class & Assignment through Google Meet
- Teaching plan
- Science Day Celebration

## Second Semester Minutes of Meeting of Chemistry

The meeting was conducted at 11:30 am to 12:30 pm on 29/11/2022 and following minutes were discussed. All the members agreed to the points and the meeting was successful. Following points were covered in the meeting.

- Discussing previous Meeting Points in Detail.
- We are discussing subject distribution per subject wise.
- We are discussing about Individual lecture timetable.
- We are scheduled a Practical & Test timing.
- We are discussing a scheduled about online class lectures.
- We are discussing about a preparation of teaching plan academic year 2022-23.
- We are discussing & Planning about Science Day Celebration.



HEAD OF THE DEPARTMENT

Department of Chemistry  
S. M. D. L. College, Kalamboli.



PRINCIPAL  
PRINCIPAL

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad

STAFF MEMBERS NAME

- Mrs. Varsha Bhagat
- Ms. Aarti Yadav
- Mr. Aniket Gaikwad
- Ms. Archana Yadav

SIGNATURE



**SES's  
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science  
College, Kalamboli.**

**Academic Year 2022-23**

Date:- 21/04/2023

**Departmental Meeting Notice for Chemistry**

Dear all Chemistry staff members hereby you are informed that there is a departmental meeting for academic semester ending is held at 11:30 am to 12:30 pm on 24 /04/2023.

So kindly attend the meeting.



*PP Mahajan*  
**PRINCIPAL**  
**PRINCIPAL**  
SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad

SES's  
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science  
College, Kalamboli.

Department of Chemistry


Academic Year 2022-23

**Second Semester Action Taken Report**

- Distribution of subject is successfully done according to rule which is provided in syllabus.
- Lecture timing & scheduled successfully done according to college rules.
- Test are taking & evaluated in given scheduled time.
- Practical's are done in systematic manner & within scheduled timetable.
- Teaching plan is successfully created & followed.
- Conducting online class & assignment through Google meet successfully.
- We are taking a Guidance lecture on Science day celebration.

  
HOD



  
PRINCIPAL

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad

## Annual academic plan for Teaching

1 Class : F.Y.B.A. Subject : F.C.- 1 Month : August – September 2022

2 Name of the paper & paper no : F.C.- 1 Semester :1

3 Available Periods : 15+16

| Sr. No. | Topics / Sub-Topics  |
|---------|--|
|         | विभाग - १  |
|         | विभाग - १ <span style="float: right;">तासिका - ०७</span>   |
| अ)      | १) भारतीय समाजाचे वर्गीकरण -<br>बहुअंगी भारतीय समाज बहुभाषिक विविध नैतिक<br>बहुवांशिक धर्माची विविधता संस्कृतीची विविधता प्रादेशिक भिन्नता<br>त्याचप्रमाणे शहरी व ग्रामीण समूहाय<br><span style="float: right;">तासिका - ०७</span>   |
|         | २) विविधता, विषमता, आणि त्यांच्याशी संबंधित समस्या<br>* असमानता, असमतोल, विषमता, अंतरसमूहाय संघर्ष, जमातवाद,<br>जातीवाद, भाषावाद, प्रादेशिक वाद<br>*पुरुषप्रधान संस्कृती लिंगभेद घटत जाणारे लिंग गुणोत्तर महिलांविरुद्ध<br>हिंसाचार महिला व प्रसारमाध्यमे<br>*शाश्वतिक व मानसिक अपंगत्व आणि त्यांना उपलब्ध असणाऱ्या सुविधा |
|         | ३) भारतीय समाजातील पोषक घटक <span style="float: right;">तासिका - ०६</span>   |
| ब)      | सामाजिक समस्यांची पृथकी आणि NGO's चा सहभाग <span style="float: right;">तासिका - ८+३</span>   |
|         | १) तंत्रज्ञान, मद्यसेवण व मादक पदार्थांचे सेवण   |
|         | २) एकत्र विषयक जाणीवा आणि उपाय योजना   |
|         | ३) ज्येष्ठ नागरिकांच्या समस्या   |



*PP Mahajan*  
Teacher

*PP Mahajan*  
Head of Dept.  
Head

*M. Kamble*  
Principal

Department of Geography  
S. M. D. L. College, Kalamboli.

I/C PRINCIPAL  
S. M. D. L. College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

## Annual academic plan for Teaching

1 Class : F.Y.B.A. Subject : F.C.- 1 Month : October-November 2022

2 Name of the paper & paper no : F.C.- 1

3 Available Periods : 13+04=17

| Sr. No. | Topics / Sub-Topics  |             |
|---------|--|-------------|
|         | ४) ज्येष्ठ नागरिकांच्या समस्या<br>कारणे समस्या व उपाययोजना       | ताशिका - ०५ |
|         | ५) छालकामगावांच्या समस्या<br>व्याप्ती, कारणे, समस्या व उपाययोजना | ताशिका - ०५ |
|         | <b>Revision</b>  | ताशिका - ०७ |
|         | Assignment of Test   |             |
|         | Re-Arrangement of Test   |             |
|         | First Semester Exam  |             |



*PP Mahajan*  
Teacher

*PP Mahajan*  
Head of Dept.  
Head

*S. Karmale*  
Principal

Department of Geography

S. M. D. L. College, Kalamboli.

I/C PRINCIPAL

SES'S S. M. Dadasaheb Limaye

ACS College, Kalamboli,

Tal. - Panvel, Dist. - Raigad.

## Annual academic plan for Teaching

1 Class : F.Y.B.A. Subject : F.C.- 1 Month : January- February 2023

2 Name of the paper & paper no : F.C.- 1

3 Available Periods : 12+11=23

| Sr. No. | Topics / Sub-Topics  | तासिका - ०८ |
|---------|--|-------------|
| क)      | १) जागतिकीकरण आणि भारतीय समाजास निर्माण होणाऱ्या समस्या - उदासीकरण, खाजगीकरण आणि जागतिकीकरण संकल्पना, अहुराष्ट्रीय कंपन्यांची भूमिका   |             |
|         |  | तासिका - ०४ |
|         | २) रोजगारावरील परिणाम खाजगीकरण आणि संघटित व असंघटित क्षेत्रातील रोजगारावरील परिणाम रोजगारीच्या नवीन समस्या आहुराष्ट्रीय कंत्राटी कामगारांची होणारी पाढ व कामगारांचे स्थलांतर |             |
|         |  | तासिका - ०४ |
|         | ३) संस्कृतीवरील परिणाम - ग्राहकवाद आणि आजारपेठीय दृष्टिकोन बदलती मूल्ये आणि जीवनशैली प्रसारमाध्यमांचा विस्फोट  |             |
|         |  | तासिका - ०३ |
|         | ४) जागतिकीकरणांचा कृषिक्षेत्रावरील परिणाम  |             |
|         |  | तासिका - ०३ |
|         | ५) शहरीकरण व शहरीकरणाचा आशेर्यावरील परिणाम, गृह समस्या, सार्वजनिक वयच्छतेच्या समस्या   |             |



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## Annual academic plan for Teaching

1 Class : F.Y.B.A. Subject : F.C.- 1 Month : March –April 2023

2 Name of the paper & paper no : F.C.- 1

3 Available Periods : 19+16=35

| Sr. No. | Topics / Sub-Topics   |             |
|---------|---|-------------|
|         |   | ताशिका - ०४ |
|         | शाहरीकरण व शाहरीकरणाचा आरोग्यावरील परिणाम, गृह समस्या, सार्वजनिक वयच्छतेच्या समस्या   |             |
|         |   | ताशिका - १५ |
| ३)      | समाज व संघर्ष   |             |
| ख)      | १) व्यक्ती विकासात अनुवंश व पर्यावरणाची भूमिका<br>निसर्ग आणि पर्यावरण समाजीकरणाची माध्यमे नैतिकतेची भूमिका मूल्ये आणि पूर्वग्रहांची व्यक्तीच्या विकासातील भूमिका<br>मासलोचा आत्मपूर्तीचा अभ्यास                         |             |
|         | २) व्यक्तीगत व सामाजिक जीवनातील संघर्ष व तणावाचे व्यवस्थापन संघर्ष व तणावाचे व्यवस्थापन करणारी संस्था<br>आक्रमक वृत्ती आणि हिंसाचार - संघर्षाची अभिव्यक्ती, सांप्रदायिक सामंजस्य आणि शांतता प्रस्थापित करण्याचे प्रयत्न |             |
|         | ३) कारकिर्द नियोजन<br>वास्तव ध्येय निश्चिती<br>खालव्यवस्थापन<br>कुपत /क्षमता चाचण्यांचे महत्त्व<br>बुद्धिवृणांक व भावनिक वृणांक   |             |
|         | March 2018 month Revision   | ताशिका - १२ |
|         | Tutorial/Test   |             |
|         | Assignment  |             |
|         | Second Semester EXAM  |             |



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## Annual academic plan for Teaching

### Academic Year 2022-23

1 Class : F.Y.B.A. Subject : Geography –1

2 Name of the paper & paper no : Human Geography

Semester- I, Course code : UAGEO101

| Sr No | Month     | Topic/Sub-topic  | Available Periods |
|-------|-----------|--|-------------------|
| 1     | September | Unit 1   | 12                |
|       |           | Human Geography Meaning, Definition, Nature & Scope<br>Branches of human geography<br>Different Approaches of Human geography<br>Man and Environment relation.<br>Determinism, possibilism , probabilmism              |                   |
| 2     | October   | Unit 2   | 12                |
|       |           | Trends and Patterns of World Population Changes<br>Demographic Transition model<br>Population Density, its Distribution and growth<br>Concept and problems of Under Population, Over Population and Optimum Population |                   |
| 3     | November  | Unit 3   | 12                |
|       |           | Concept of urban and rural Settlement<br>Types and Patterns of Settlement<br>Site Situation<br>Functional Classification of Urban settlement   |                   |
| 4     | December  | Unit 4   | 12                |
|       |           | Concept and types of migration<br>Causes of Migration- Pull and push<br>Consequences of Migration  |                   |



|   |  |   |    |
|---|--|---|----|
|   |  | Pattern and Process of Migration<br>Emerging Trends of Migration or<br>Issues of legal and illegal International<br>Migration, Migrant refugee crisis     |    |
| 5 |  | Unit 5  | 12 |
|   |  | Practical : Map Definition,<br>Components & importance and types<br>Map Scale- Definition, Vrebal and<br>graphical<br>Construction of Population pyramid. |    |
|   |  | January -FIRST SEMESTER EXAM  |    |



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## Annual academic plan for Teaching Academic Year 2022-23

1 Class : F.Y.B.A. Subject : Geography –1

2 Name of the paper & paper no : Environment Geography

Semester- II , Course code : UAGEO201

| Sr No | Month    | Topic/Sub-topic  | Available Periods |
|-------|----------|--|-------------------|
| 1     | January  | Unit 1   | 12                |
|       |          | Environment Geography Meaning, Definition, Nature & Scope<br>Man interaction with Environment<br>Relationship of Environmental Geography with other Sciences   |                   |
| 2     | February | Unit 2   | 12                |
|       |          | Ecosystem Meaning, Definition and its structure<br>Functions – Energy flow in ecosystem<br>food chain, food web, food pyramid<br>Classification of ecosystem<br>Biogeochemical                         |                   |
|       |          | Unit 3   | 12                |
|       |          | Pollution- water, Soil, Air, Noise<br>Causes, Effects<br>Major environmental issues<br>Major environmental Movements   |                   |
|       | March    | Unit 4   | 12                |
|       |          | Natural resources Meaning, Definition and importance<br>Types of Natural resources<br>Causes of depletion and methods of natural resources conservation<br>Bio-diversity in India and its conservation |                   |



|       |   |    |
|-------|---|----|
| April | Unit 5  | 12 |
|       | Practical: Map filling- world<br>Interpretation or question answer on<br>thematic maps drawn with technique –<br>Choropleth maps, Isopleth map, Dot<br>map and Flow map |    |
|       | May - Second SEMESTER EXAM  |    |

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Teaching Plan : Academic Year – 2022-23

Name of the Faculty : - Mali Pratiksha P.

Class :-F.Y.Bcom.

Sub :- ENVIRONMENTAL STUDIES

Department : COMMERCE

| Sr. No.   | Month            | Available Period | Topic/Sub Topic to be Taught   |
|---|------------------|------------------|--|
| <b>SEMESTER – V</b><br><b>ENVIRONMENTAL STUDIES - I</b> |                  |                  |  |
| 1.  | August - 2022    | 13               | <b>UNIT– I Environment and Ecosystem</b> <ul style="list-style-type: none"><li>• Environment – Meaning, Definition, Scope and its components</li><li>• Concept of an Ecosystem – definition, Characteristics, components and types</li><li>• Functioning and structure</li><li>• Food Chain and Food Web, Ecological Pyramids</li><li>• Man and environment relationship</li><li>• Importance and scope of Environmental Studies.</li></ul>  |
| 2.  | September - 2022 | 16               | <b>UNIT–II Natural Resources and Sustainable Development</b> <ul style="list-style-type: none"><li>• Meaning and definitions – classification and types of resources,</li><li>• Factors influencing resources utilization</li><li>• Resources conservation – meaning and methods</li><li>• Conventional and non-conventional resources</li><li>• Problem associated with and management of water, Forest and energy resources</li><li>• Resources utilization and sustainable development</li></ul>  |
| 3.  | October - 2022   | 13               | <b>UNIT–III Population and Emerging Issues of Development</b> <ul style="list-style-type: none"><li>• Population explosion in the world and in India and arising concerns</li><li>• Demographic Transition Theory</li><li>• Pattern of population growth in the world and in India and associated problems</li><li>• Measures taken to control Population growth in India</li><li>• Human Population and environment</li><li>• Environment and Human Health</li><li>• Human Development Index</li><li>• The World Happiness Index.</li></ul> |
| 4.  | November- 2022   | 13               | <b>UNIT–IV Urbanization and Environment</b> <ul style="list-style-type: none"><li>• Concept of Urbanisation</li><li>• Problems of migration and urban environment</li><li>• Changing land use, crowding and stress on urban resources,</li><li>• Degradation of air and water</li></ul>  |



|   |                 |    |   |
|---|-----------------|----|---|
|   |                 |    | <ul style="list-style-type: none"> <li>• Loss of soil cover impact on biodiversity</li> <li>• Urban heat islands</li> <li>• Emerging Smart Cities and safe cities in India</li> <li>• Sustainable Cities</li> </ul>   |
| 5.  | December - 2022 | 11 | <b>Map Reading –</b> <ul style="list-style-type: none"> <li>• Reading of Thematic Maps</li> </ul> Located bars, Circles, Pie charts, Isopleths, Choropleth, and Flow map, Pictograms – Only reading and interpretation.<br><b>Map Filling</b> <ul style="list-style-type: none"> <li>• Map filling of World (Environmentally significant Features) using point, line and polygon segment.</li> </ul>  |
| <b>SEMESTER – VI</b><br><b>ENVIRONMENTAL STUDIES - II</b> |                 |    |   |
| 6.  | January - 2023  | 17 | <b>UNIT-I Solid Waste Management for Sustainable Society</b> <ul style="list-style-type: none"> <li>• Classification of solid wastes</li> <li>• Types and Sources of solid Waste</li> <li>• Effects of Solid Waste pollution – Health hazards</li> <li>• Environmental impacts</li> <li>• Solid Waste Management</li> <li>• Solid waste management in Mumbai</li> <li>• Schemes and initiatives run by MCGM</li> </ul> Role of citizen in Waste Management in Urban and Rural areas   |
| 7.  | February- 2023  | 16 | <b>UNIT-II Agriculture and Industrial Development</b> <ul style="list-style-type: none"> <li>• Environmental Problems Associated with Agriculture: Loss of Productivity, Land Degradation, desertification</li> <li>• Uneven Food Production- Hunger, Malnutrition and Food Security</li> <li>• Sustainable Agriculture practices</li> <li>• Environmental Problems Associated with Industries – pollution – Global warming, Ozone Layer Depletion, Acid rain</li> <li>• Sustainable Industrial practise</li> <li>• Green Business and Green Consumerism</li> </ul> Corporate Social Responsibility towards environment |
| 8.  | March - 2023    | 17 | <b>UNIT-III Tourism and Environment</b> <ul style="list-style-type: none"> <li>• Tourism: Meaning, Nature, Scope and importance</li> <li>• Typology of tourism - Classification</li> <li>• Tourism potentials in India and challenges before India</li> <li>• New Tourism Policy of India</li> <li>• Consequences of tourism</li> <li>• Positive and Negative Impacts on Economy, Culture and Environment Ecotourism.</li> </ul>  |
| 9.  | April- 2023     | 15 | <b>UNIT-IV Environmental Movements and Management</b> <ul style="list-style-type: none"> <li>• Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghats Movement</li> <li>• Environmental Management: Concept, need and</li> </ul>   |



|  |  |  |  |
|--|--|--|--|
|  |  |  | <p>relevance</p> <ul style="list-style-type: none"> <li>• Concept of ISO 14000 and 16000</li> <li>• Concept of Carbon Bank and Carbon Credit</li> <li>• EIAA, ecological footprint</li> <li>• Environment Protection Acts;</li> <li>• Concept and components of Geospatial Technology</li> <li>• Applications of GST in Environmental Management.</li> </ul> <p><b>Map Filling –</b></p> <ul style="list-style-type: none"> <li>• Map filling of Konkan and Mumbai (Environmentally significant features)</li> </ul> |
|--|--|--|--|

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## Annual academic plan for Teaching Academic Year 2022-23

1 Class : S.Y.B.A. Subject : Geography –II

2 Name of the paper & paper no : Physical Geography of Maharashtra

Semester- III , Course code : UAGEO402

| Sr No | Month             | Topic/Sub-topic   | Available Periods |
|-------|-------------------|---|-------------------|
| 1     | November-December | Unit 1  | 9                 |
|       |                   | Major relief features of Maharashtra – Hill ranges, Plateaus, Mountains peaks<br>Major Rivers of Maharashtra and their boundaries<br>Climate of Maharashtra – Variation in temperature, Rainfall distribution, Rain shadow zone   |                   |
| 2     | January           | Unit 2  | 9                 |
|       |                   | Soils – Characteristics of soil – Classification and Distribution of Soils of Maharashtra – Problems of soils in Maharashtra<br>Soils- Method of soil conservation<br>Natural Vegetation – Distribution of forests, Wildlife sanctuaries and national parks in Maharashtra – Problems related to forest in Maharashtra – conservation of forest |                   |
|       |                   | Unit 3  | 12                |
|       |                   | Agriculture : Characteristics, Cropping patterns and problems of Agriculture in Maharashtra   |                   |



|  |          |   |    |
|--|----------|---|----|
|  |          | Livestock resources in Maharashtra<br>Fishing : Distribution of fisheries –<br>Problems and solutions related to fishing<br>Mineral and power resources in<br>Maharashtra                 |    |
|  | February | Unit 4  | 12 |
|  |          | Industries; Industrial regions of<br>Maharashtra,Recent developments in<br>industrial sector<br>Deveopment of Transport and<br>Communication in Maharashtra<br>Mumbai Metroipoitan region |    |
|  | March    | Unit 5  | 12 |
|  |          | Practical :<br>Distribution maps: Choropleth<br>maps,Isopleth maps,Dot maps,Flow<br>maps<br>Map Filling - Maharashtra   |    |
|  |          | March- 4 <sup>th</sup> SEMESTER EXAM  |    |



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## Annual academic plan for Teaching Academic Year 2022-23

1 Class : S.Y.B.A. Subject : Geography –II

2 Name of the paper & paper no : Physical Geography of INDIA

Semester- IV, Course code : UAGEO302

| Sr No | Month     | Topic/Sub-topic   | Available Periods |
|-------|-----------|---|-------------------|
| 1     | August    | Unit 1 Introduction of India  | 9                 |
|       |           | India : Location, extent and significance<br>India major physiographic divisions and their formation<br>Mountainous region of India<br>North Indian plains<br>Peninsular plateau of India<br>Coastal plains and islands of India          |                   |
| 2     |           | Unit 2 Drainage and Climate   | 9                 |
|       |           | Drainage system in India<br>Major Himalayan rivers of India<br>Major Peninsular rivers of India<br>Major lakes of India<br>Seasons of India<br>Distribution of rainfall in India  |                   |
| 3     | September | Unit 3 Soils and Vegetation   | 9                 |
|       |           | Classification of soils of india<br>Problems associated with soils and its remedies in india<br>Classification of forest in india<br>Importance of forest in Indian context<br>Deforestation and measures of forest conservation in india |                   |
| 4     | October   | Unit 4 Mineral and Power Resources  | 9                 |



|   |  |   |   |
|---|--|---|---|
|   |  | Distribution of metallic minerals in india<br>:Iron ore , manganese bauxite,copper<br>and other important minerals<br>Distribution of non metallic minerals in<br>india: Mica,limestone,gypsum,clay and<br>other important minerals<br>Distribution of power resources:<br>Coal,Mineral oil and natural gas |   |
| 5 |  | Unit 5  | 9 |
|   |  | Map filling : showing geographical<br>features in the map of india<br>Map scale – Types,conversion and<br>drawing   |   |
|   |  | November -3 <sup>rd</sup> SEMESTER EXAM   |   |



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## Annual academic plan for Teaching Academic Year 2022-23

1 Class : S.Y.B.A. Subject : Geography –III

2 Name of the paper & paper no : Travel and Tourism Geography

Semester- III Course code : UAGEO302

| Sr No | Month     | Topic/Sub-topic   | Available Periods |
|-------|-----------|---|-------------------|
| 1     | August    | Unit 1 Introduction of India  | 9                 |
|       |           | India : Location, extent and significance<br>India major physiographic divisions and their formation<br>Mountainous region of India<br>North Indian plains<br>Peninsular plateau of India<br>Coastal plains and islands of India          |                   |
| 2     |           | Unit 2 Drainage and Climate   | 9                 |
|       |           | Drainage system in India<br>Major Himalayan rivers of India<br>Major Peninsular rivers of India<br>Major lakes of India<br>Seasons of India<br>Distribution of rainfall in India  |                   |
| 3     | September | Unit 3 Soils and Vegetation   | 9                 |
|       |           | Classification of soils of India<br>Problems associated with soils and its remedies in India<br>Classification of forest in India<br>Importance of forest in Indian context<br>Deforestation and measures of forest conservation in India |                   |
| 4     | October   | Unit 4 Mineral and Power Resources  | 9                 |



|   |  |   |               |
|---|--|---|---------------|
|   |  | <p>Distribution of metallic minerals in india<br/>:Iron ore , manganese bauxite,copper<br/>and other important minerals</p> <p>Distribution of non metallic minerals in<br/>india: Mica,limestone,gypsum,clay and<br/>other important minerals</p> <p>Distribution of power resources:<br/>Coal,Mineral oil and natural gas</p> |               |
| 5 |  | Unit 5  | 9             |
|   |  | <p>Map filling : showing geographical<br/>features in the map of india</p> <p>Map scale – Types,conversion and<br/>drawing</p>  |               |
|   |  | November -3   | SEMESTER EXAM |

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## Annual academic plan for Teaching

### Academic Year 2022-23

1 Class : S.Y.B.A. Subject : Geography –III

2 Name of the paper & paper no : Agriculture Geography  
Semester- **IV** , Course code : UAGEO402

| Sr No | Month             | Topic/Sub-topic  | Available Periods |
|-------|-------------------|--|-------------------|
| 1     | November-December | Unit 1 Nature of oceanography  | 12                |
|       |                   | Origin And development of Oceanography<br>Oceanograph meaning definition nature and scope<br>Branches of oceanography physical chemical and biological<br>Major ocean and its characreristics features   |                   |
| 2     | January           | Unit 2 Bottom Relief and ocean water   | 12                |
|       |                   | Ocean floor and its characteristics<br>Composition of ocean water<br>Factors affecting ocean water temperature<br>Vertical and horizontal distribution of ocean temperature<br>Factors affecting salinity of ocean water<br>Vertical and horizontal distribution of oceanic salinity |                   |
|       |                   | Unit 3 Movements of ocean water  | 12                |
|       |                   | WAVES : formation and types<br>Tsunami and their effect on coast<br>Concept and types of tides   |                   |



|  |          |   |    |
|--|----------|---|----|
|  |          | Equilibrium theory of tides<br>Ocean Currents- types and their effects  |    |
|  | February | Unit 4 Man and Ocean  | 12 |
|  |          | El-Nino and La-nina phenomenon<br>Coral reefs and their importance<br>Marine Ecosystem<br>Marine pollution<br>Ocean and global climate change |    |
|  | March    | Unit 5  | 12 |
|  |          | Practical :<br>Map Filling – Related to oceanography<br>Reading and interpretation of<br>navigation chart and bathymetric maps                |    |
|  |          | March- 4 <sup>th</sup> SEMESTER EXAM  |    |

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Name of the Faculty: -Mahajan P.P.

Class: -T.Y.B.A.

Sub: -Paper – IV

Department: GEOGRAPHY

| Sr.No.   | Month                   | Available Period | Topic/Sub Topic to be Taught  |
|--|-------------------------|------------------|---|
| <b>SEMESTER – V<br/>GEOGRAPHY OF SETTLEMENTS</b> |                         |                  |   |
| 1.   | June-2022               | 08               | <b>UNIT – I: Introduction of Settlement Geography</b><br>1.1 Settlement geography: definitions, nature and scope<br>1.2 Settlement types, their characteristics and differences<br>1.3 Factors influencing growth and distribution of settlements   |
| 2.   | July -2022              | 16               | 1.4 Importance of settlement studies in geography<br><b>UNIT – II: Geography of Rural Settlements</b><br>2.1 Origin and growth of settlements - evolution of rural settlements<br>2.2 Site and situation of rural settlements<br>2.3 Classification of rural settlements on the basis of population and patterns<br>2.4 Classification of rural settlements on the basis of spacing and functions |
| 3.   | August – 2022           | 16               | <b>UNIT – III: Rural Settlements in India</b><br>3.1 Distribution and density of rural settlements in India<br>3.2 Structure of house and building materials in India<br>3.3 Regional variations in rural settlement patterns in India<br>3.4 Morphology of rural settlement in India<br><b>UNIT – IV: Urban Settlements</b><br>4.1 Origin and growth of urban settlements                        |
| 4.   | September – 2022        | 13               | 4.2 Classification of urban settlements on the basis of culture and functions<br>4.3 Hierarchy of urban Settlement: rank size rule and primate city<br>4.4 Ashok Dutts's models of South Asian city: port city and bazaar city<br><b>UNIT – V: Urban Settlements in India</b><br>5.1 Urbanization in India: Trends, patterns and types of towns   |
| 5.   | October – November 2022 | 11               | 5.2 Morphology of urban settlements in India (With reference to a port and inland city)<br>5.3 Urban problems in Indian cities<br>5.4 Smart city: Concept, need and implementation in India   |



**SEMESTER – VI**  
**ENVIRONMENTAL GEOGRAPHY**

|     |                 |    |   |
|-----|-----------------|----|---|
| 6.  | December – 2022 | 13 | <b>UNIT –I Introduction to Environmental Geography</b><br>1.1 Environmental Geography: Definition, Nature, Scope and Importance<br>1.2 Environment: Meaning, Factors and Types<br>1.3 Approaches to the Study of Man – Environment Relationship<br>1.4 Changing Man - Environment Relationship in Historical Perspective  |
| 7.  | January – 2023  | 15 | <b>UNIT-II Ecosystem</b><br>2.1 Meaning and Structure of Ecosystem<br>2.2 Ecological Pyramids and Productivity of Ecosystem<br>2.3 Functions of Ecosystem: Food Chain & Web, Energy Transfer, Biogeochemical Cycles   |
| 8.  | February - 2023 | 16 | 2.4 Types of Ecosystems: Aquatic, Terrestrial, and Aqua-Terrestrial Ecosystems<br><b>UNIT-III Biodiversity</b><br>3.1 Biodiversity: Concept, Types and Distribution<br>3.2 Biodiversity Hotspots: Concept, and Distribution in India with Special Reference Western Ghats<br>3.3 Threat to Biodiversity: Causes<br>3.4 Conservation of Biodiversity and Management of Biological Reserves |
| 9.  | March - 2023    | 15 | <b>UNIT-IV Environmental Challenges in India</b><br>4.1 Air pollution and Water Pollution: Cases and Effects<br>4.2 Land and Noise Pollution: Cases and Effects<br>4.3 Environmental Issues Related to High/large Dams<br>4.4 Major environmental Movements in India  |
| 10. | April - 2023    | 09 | <b>UNIT-V Sustainable Development and Environmental Management</b><br>5.1 Concepts and Need of Sustainable Development and Environmental Management<br>5.2 Eco-friendly Lifestyle and Need of Environmental Education<br>5.3 Biosphere Reserves and Wildlife Management in India<br>5.4 Environmental Impact Assessment   |

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Sub :-**Paper No: VI - TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-I (Practical)****Department :GEOGRAPHY**

| Sr. No.             | Month                   | Available Period | Topic/Sub Topic to be Taught   |
|---------------------|-------------------------|------------------|--|
| <b>SEMESTER - V</b> |                         |                  |  |
| 1.                  | June – 2022             | 06               | <b>Unit -I Map Projections</b><br>1.1. Basic Concepts – Definition, scale, direction, azimuth, graticule, great circle, true meridian, types of projections, choice of projections<br>1.2. Zenithal Polar Projections – Equal Area, Equidistant<br>1.3. Cylindrical Projections - Equal Area, Equidistant  |
| 2.                  | July -2022              | 14               | 1.4. Conical Projections - One standard parallel, two standard parallel<br><b>Unit-II Map Basic</b><br>2.1. Basic elements of map and calculation or identification of relief, direction, bearing and distance<br>2.2. Area calculation with square method and strip method<br>2.3. Demarcation of watershed on topo sheet, Tracing of stream network and contours<br><b>Unit-III Survey of India Topo sheets</b><br>3.1. Signs and symbols, marginal information  |
| 3.                  | August – 2022           | 11               | 3.2. Study of physiography, drainage and vegetation (one full topo sheet of hilly and plateau region each)<br>3.3. Study of settlements – size, pattern, utilities (one full topo sheet of plains and urban region each)<br>3.4. Study of transport network (one full topo sheet of plains and urban area each)<br><b>Unit-III Preparation of Thematic maps (Manually)</b><br>4.1. Preparation of a district thematic maps with actual data-Dot and Pictogram<br>4.2. Preparation of a district thematic maps with actual data-Choropleth and Isopleth |
| 4.                  | September – 2022        | 08               | 4.3. Preparation of a district thematic maps with actual data- Located bar, located circle and pie chart<br><b>Unit-V Use of computers in geographical data representation</b><br>5.1. Construction of line graphs & simple and multiple bar graphs using MS-excel<br>5.2. Construction of divided bar graphs & pie charts using MS-excel  |
| 5.                  | October – November 2022 | 08               | 5.3. Preparation of datasheet in SPSS<br>5.4. Calculation of central tendency and standard deviation using SPSS  |



**SEMESTER – VI**  
**TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-II (Practical)**

|     |                 |    |  |
|-----|-----------------|----|--|
| 6.  | December – 2022 | 10 | <b>Unit -I Nature of data and central tendency</b> Lectures<br>1.1. Meaning and types of data, variable, observation, observation value, simple, discrete data and continuous data<br>1.2. Frequency Distribution, Histogram, Frequency Polygon and Ogive<br>1.3. Measures of Central Tendency- mean, median and mode  |
| 7.  | January – 2023  | 14 | <b>Unit -II Dispersion and Deviation</b><br>2.1. Mean Deviation and Quartile Deviation<br>2.2. Standard Deviation<br>2.3. Moving Averages (3 years and 5 years)<br><b>Unit -III Correlation, Regression &amp; Hypothesis Testing</b><br>3.1. Calculation of correlation coefficient - Pearson's and Spearman's methods   |
| 8.  | February - 2023 | 11 | 3.2. Regression analysis<br>3.3. Chi square test<br><b>Unit-IV Sampling</b><br>4.1. Sample and sample design in geography<br>4.2. Point sampling – Systematic and random   |
| 9.  | March - 2023    | 11 | 4.3. Line sampling – Systematic and random<br>4.4. Area sampling – Systematic and random<br><b>Unit-V Field work in Geography of any one place/village</b><br>5.1. Collection of <b>physiographic data</b> – Field observation, field sketching, collection of soil and rock samples, identification of vegetation etc.<br>5.2. Collection of <b>socio-economic data</b> – interviews, questionnaire survey, visit to local governing office, NGO's etc. |
| 10. | April - 2023    | 09 | 5.3. Collection of <b>geospatial data</b> – toposheets, aerial photographs, Google images/maps, Bhuvan images etc.<br>To prepare a geographical report of a place with the help of an available 5.1, 5.2, and 5.3 aspects  |

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Name of the Faculty : - Mali Pratiksha P.

Class :-T.Y.B.A.

Sub :-VIII - A

Department :GEOGRAPHY

| Sr. No.   | Month                   | Available Period | Topic/Sub Topic to be Taught  |
|---|-------------------------|------------------|---|
| <b>SEMESTER - V</b><br><b>GEOGRAPHY OF RESOURCES</b>    |                         |                  |   |
| 1.  | June - 2022             | 08               | <b>UNIT – I: Introduction to the Resources</b><br>1.1 Meaning and importance of the natural resources<br>1.2 Factors influencing on resource utilization and related theories<br>1.3 Classification of resources  |
| 2.  | July -2022              | 18               | 1.4 Issues with renewable and non-renewable resources<br><b>UNIT – II: Natural resources: over exploitation and conservation measures</b><br>2.1 Over exploitation and depletion of natural resources<br>2.2 Resource consumption pattern in the developed and underdeveloped countries<br>2.3 Need and measures for resource conservation<br>2.4 Sustainable use of natural resources<br><b>UNIT – III: Natural Resources, Part –I</b><br>3.1 Distribution of water resources on the Earth |
| 3.  | August – 2022           | 16               | 3.2 Water consumption pattern, water pollution and water conservation<br>3.3 Distribution of forest resources in the world<br>3.4 Deforestation and forest conservation<br><b>UNIT – IV: Natural Resources Part –II</b><br>4.1 Soil composition and factor affecting soil formation<br>4.2 Soil degradation and its conservation  |
| 4.  | September – 2022        | 12               | 4.3 Minerals and their classification<br>4.4 Use of energy minerals and their conservation<br><b>UNIT – V: Human Resources</b><br>5.1 Concept of human resource: skilled and unskilled workers<br>5.2 Distribution of population in the world   |
| 5.  | October – November 2022 | 11               | 5.3 Concept of over, under and optimum population<br>5.4 Population Resource regions  |
| <b>SEMESTER – VI</b><br><b>VIII-B: SOCIAL GEOGRAPHY</b> |                         |                  |   |
| 6.  | December – 2022         | 13               | <b>UNIT – I: Introduction to Social Geography</b><br>1.1 Social Geography: Definitions, Nature, Scope and   |



|     |                 |    |  |
|-----|-----------------|----|--|
|     |                 |    | importance<br>1.2 Branches and Approaches in Social Geography<br>1.3 Concept of Social Space and Socio-cultural Regions<br>1.4 Globalization: The Process of Social and Spatial Change   |
| 7.  | January – 2023  | 19 | <b>UNIT – II: Elements of Social Geography -World</b><br>2.1 Race: Concept and Basis of Classification and distribution<br>2.2 Religion: Characteristics, Distribution and Spread of Major Religions in the World<br>2.3 Language: Characteristics and Distribution of Major Linguistic Families in the World<br>2.4 Tribes: Concept, Characteristics and Pat<br><b>UNIT – III: Elements of Social Geography –India</b><br>3.1 Race: Major races and its distribution in India |
| 8.  | February - 2023 | 15 | 3.2 Religion: Major Religions and its distribution and its distribution in India<br>3.3 Language: Major Linguistic Families in India<br>3.4 Tribes: Distribution of Scheduled Tribes in India<br><b>UNIT - IV: Social Geography of City</b><br>4.1 Social groups – identification and distribution<br>4.2 Residential segregation  |
| 9.  | March - 2023    | 14 | 4.3 Functional segregation<br>4.4 Social issues in the city<br><b>UNIT – V: Contemporary Issues in India</b><br>5.1 Religion related social issues<br>5.2 Language related social issues   |
| 10. | April - 2023    | 06 | 5.3 Patterns of gender issues in India<br>5.4 Socio-economic problems of indigenous communities in India   |

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Teaching Plan : Academic Year - 2022-23

Name of the Faculty : - Mali Pratiksha P.

Class :-T.Y.B.A.

Sub :-Paper – IX

Department :GEOGRAPHY

| Sr. No.                                       | Month            | Available Period | Topic/Sub Topic to be Taught   |
|---|------------------|------------------|--|
| <b>SEMESTER - V<br/>GEOSPATIAL TECHNOLOGY</b> |                  |                  |  |
| 1.  | June - 2022      | 06               | <b>UNIT - I Remote Sensing – I</b><br>1.1 Geospatial Technology: Concept, Components and Importance<br>1.2 Remote Sensing: Concept, Process and Geographical Applications<br>1.3 Electromagnetic Energy, EMR and EMS - Spectral Reflectance and Spectral Signature or Curve - Platforms, Sensors and Resolution  |
| 2.  | July -2022       | 12               | 1.4 Elements of Visual Image Interpretation - Mapping of Thematic Layers and Visual Image Interpretation of Physical and Manmade Features<br><b>UNIT - II Remote Sensing – II</b><br>2.1 Digital image analysis: land use and landform classification, 3D view of DEM<br>2.2 Aerial Photographs: Concept, Process and Types<br>2.3 Interpretation of Aerial Photographs<br>2.4 Advanced Remote Sensing Technology - Use of Bhuvan website  |
| 3.  | August – 2022    | 13               | <b>UNIT - III Global Positioning System</b><br>3.1 GPS : Concept, Segments, Applications<br>3.2 Types of GPS – GPS Data Accuracy and Errors<br>3.3 Factors Affecting GPS Data - Global Navigation System<br>3.4 Ground Survey and Demarcation of Point, Line and Polygon Features with GPS Device – Transfer GPS Data to Computer with Software's like Easy GPS<br><b>UNIT - IV Geographic Information System – I</b><br>4.1 GIS : Concept, Components and Applications - Map Projection and Coordinate System |
| 4.  | September – 2022 | 09               | 4.2 GIS Data Acquisition and Types<br>4.3 Importing Image into GIS Software and Geo-referencing<br>4.4 Creating Layers by Digitization of Point, Line and Polygon Features   |



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| 5.  | October – November 2022 | 10 | <b>UNIT V Geographic Information System – II</b><br>5.1 Functions of Database Creation – Input, Editing and Linking<br>5.2 Spatial Database Analysis: Overlay, Merge, Query<br>5.3 Using Map-Composer for Map Layout and Design<br>5.4 Preparation of Thematic Maps   |
| <b>SEMESTER – VI</b><br><b>Research Methodology</b> |                         |    |   |
| 6.  | December – 2022         | 10 | <b>Unit – I : In Research</b> <ul style="list-style-type: none"> <li>• Meaning</li> <li>• Objectives</li> <li>• Structure</li> <li>• Significance</li> <li>• Motivation</li> <li>• Utility</li> <li>• Ethical Consideration in Research</li> <li>• Plagiarism</li> </ul>  |
| 7.  | January – 2023          | 12 | <ul style="list-style-type: none"> <li>• Types of Research</li> <li>• Issues and Problems in Research</li> </ul> <b>Unit – II : Research Methodology</b> <ul style="list-style-type: none"> <li>• Meaning of Research Methodology</li> <li>• Stages in Scientific Research Process</li> <li>• Identification and Selection of Research Problem</li> <li>• Formulation</li> <li>• Review of Literature</li> </ul>  |
| 8.  | February - 2023         | 12 | <ul style="list-style-type: none"> <li>• Hypothesis</li> <li>• Research Design</li> <li>• Sample Design</li> <li>• Qualitative Research</li> <li>• Quantitative Research</li> </ul> <b>Unit – III Data Collection and Data Analysis</b> <ul style="list-style-type: none"> <li>• Types and Sources of Data</li> <li>• Observation</li> <li>• Questionnaire Survey</li> <li>• Schedule</li> </ul>  |
| 9.  | March - 2023            | 13 | <ul style="list-style-type: none"> <li>• Interview</li> <li>• Stages in Data Processing- Editing Coding – Classification- Tabulation Data Analysis with Statistical Packages- Excel and SPSS – Diagrammatic representation, Interpretation of Data</li> </ul> <b>Unit – IV: Preparation of Research Report</b> <ul style="list-style-type: none"> <li>• Structure of scientific reports</li> <li>• Types of report</li> <li>• Different steps in the preparation</li> <li>• Layout</li> </ul> |





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| 10. | April - 2023 | 06 | <ul style="list-style-type: none"><li>• Structure and Language of typical reports</li><li>• Illustrations and tables</li><li>• Bibliography, referencing and footnotes</li></ul> <b>Unit – V: Research Report</b> <ul style="list-style-type: none"><li>• Journal &amp; Viva</li></ul> |
|-----|--------------|----|--|



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Teaching Plan : Academic Year - 2022-23

Name of the Faculty : - Mali Pratiksha P.

Class :-T.Y.B.A.

Sub :-**Paper : V-B**

Department :**GEOGRAPHY**

| Sr. No.  | Month                   | Available Period | Topic/Sub Topic to be Taught   |
|--|-------------------------|------------------|--|
| <b>SEMESTER - V</b><br><b>POPULATION GEOGRAPHY</b> |                         |                  |  |
| 1.   | June – 2022             | 08               | <b>UNIT- I, Introduction to Population Geography</b><br>1.1 Concept, definition, nature, scope, importance<br>1.2 Evolution and recent trends<br>1.3 Basic sources of population data and their important elements   |
| 2.   | July -2022              | 18               | 1.4 Population geography and other social sciences<br><b>UNIT- II, Population Dynamics</b><br>2.1 Population growth in the world (continent wise and level of development)<br>2.2 Population growth in India<br>2.3 World : Population density and its determinants<br>2.4 Structure of population in developed and developing world (Age and Sex, Rural and Urban)<br><b>UNIT- III, Theories of Population Growth</b><br>3.1 Demographic Transition Model |
| 3.   | August – 2022           | 16               | 3.3 Structure of population: Age-sex<br>3.4 Occupational structure of population<br><b>Unit-IV: Agriculture, Fishing and Livestock Resources</b><br>4.1 Salient features of agriculture<br>4.2 Agricultural regions, recent issues and policies  |
| 4.   | September – 2022        | 12               | 4.3 Fisheries, recent issues and policies<br>4.4 Livestock resources recent issues and policies<br><b>Unit-V: Industries, Trade and Transport</b><br>5.1 Major industrial regions  |
| 5.   | October – November 2022 | 11               | 5.2 Role of transport in industrial development<br>5.3 Industrial issues and policies<br>5.4 Trade and transport   |
| <b>SEMESTER – VI</b><br><b>POLITICAL GEOGRAPHY</b> |                         |                  |  |
| 6.   | December – 2022         | 13               | <b>Unit – 1. : Introduction of Political Geography</b><br>1.1 Definition, Nature and Scope of Political Geography<br>1.2 Historical Development and Recent Trends in Political Geography<br>1.3 Concept of state and factors   |



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|     |                 |    | 1.4 Concept of Nation, Nation-State, and Nationalism   |
| 7.  | January – 2023  | 19 | <b>Unit – 2. : Approaches and Concepts in Political Geography</b><br>2.1 Hartshorne’s Fundamental Approach: Centrifugal and Centripetal Forces Areas<br>2.2 Unified Field Theory<br>2.3 Core: Concept, Characteristics, and Distribution<br><b>Unit – 3. : Frontiers and Boundaries</b><br>3.1 Frontiers and Boundaries: Concepts and Distinction<br>3.2 Functions of Frontiers and Boundaries |
| 8.  | February - 2023 | 15 | 3.3 Classification of Boundaries<br>3.4 India’s Boundaries: Characteristics and Disputes<br><b>Unit – 4. : Geostrategic and Geopolitical Views</b><br>4.1 Mackinder’s Heartland and Spykman’s Rimland Model<br>4.2 Geopolitics of Indian Ocean<br>4.3 Geopolitics of International Water Disputes with Special Reference to India  |
| 9.  | March – 2023    | 14 | 4.4 Changing Political Map of India<br><b>Unit – 5. : Electoral Geography</b><br>5.1 Concept, Nature and Approaches of Electoral Geography<br>5.2 Geography of Voting: Geographical Factors Affecting Elections  |
| 10. | April - 2023    | 08 | 5.3 Spatial Organization of Electoral Areas and Geography of Representation<br>5.4 Challenges to Election System in India  |

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Academic Year 2022 – 2023

**Teaching Plan**

Name of the Faculty: - **MAHAJAN SANJAY BABURAO**

Class: - **TYBA**

Subject: - **INDUSTRIAL AND LABOUR ECONOMICS: PAPER IX & XV**

Department: **Economics** (Lecture: Tuesday, Wednesday, Saturday)

| Sr. No.   | Month          | Available Period | Topic/Sub Topic to be Taught   |
|---|----------------|------------------|--|
| <b>INDUSTRIAL AND LABOUR ECONOMICS: PAPER IX, SEMESTER-V</b>    |                |                  |  |
| 1.  | June 2022      | 09               | <b>Module 1: Introduction</b><br>1. Meaning and Scope of Industrial Economics<br>2. Industrial Profile-<br>a. Private sector- Performance and Problems   |
| 2.  | July 2022      | 14               | b. Cooperatives sector and its role, Merits and demerits<br>c. Public Sector – Role - Performance and Problems<br>3. Role of agriculture in Industrial development<br>4. Industrial Combinations - Motives for Mergers and Acquisitions.<br><b>Module 2: Industrial Location and Problem of Regional Imbalance</b><br>1. Determinants of Industrial Location |
| 3.  | August 2022    | 13               | 2. Theories of Industrial Location - Weber's and Sargent Florence's Theories<br>3. Dispersal and Decentralization of Industries<br>4. Problem of Regional Imbalance.<br><b>Module 3: Industrial Productivity and Industrial Sickness</b><br>1. Concept and Measurement of Industrial Productivity  |
| 4.  | September 2022 | 9                | 2. Factors Affecting Industrial Productivity<br>3. Industrial Sickness - Causes, Effects and Remedial Measures<br>4. Rationalisation - Concept, Aspects and Impact.<br><b>Module 4: Industrial Development in India</b><br>1. New Industrial Policy, 1991<br>2. Disinvestment Policy<br>3. Small Scale Industries and Rural Industrialization                |
| 5.  | October 2022   | 06               | 4. National Manufacturing Policy, 2011<br>5. Recent Trends in India's Industrial Growth<br>6. Role of MNCs in the Indian Economy - Merits and Demerits<br>7. Industrial Finance in India.  |
| <b>INDUSTRIAL AND LABOUR ECONOMICS: PAPER XV, SEMESTER - VI</b> |                |                  |  |

|     |               |    |   |
|-----|---------------|----|---|
| 6.  | November 2022 | 5  | <b>Module 1: Introduction - Indian Labour Market</b><br>1. Characteristics of the Indian Labour Market<br>2. Child Labour and Women Labour  |
| 7.  | December 2022 | 11 | 3. Problems and Measures<br>4. Labour Market Reforms- Exit Policy and Need for Safety Nets<br>5. Second National Commission on Labour,<br>6. Globalization and its impact on Indian Labours.  |
| 8.  | January 2023  | 14 | <b>Module 2: Trade Unionism</b><br>1. Definition and Functions of Trade Unions<br>2. Historical Evolution of Trade Unions in India and their Present Status<br>3. Problems of Trade Unions in India<br>4. Role of Outside Leadership<br>5. International Labour Organization.   |
| 9.  | February 2023 | 12 | <b>Module 3: Industrial Relations</b><br>1. Causes of Industrial Disputes and Their Settlement Mechanism<br>2. Collective Bargaining - Concept, Features - Importance and Pre-requisites for Successful Collective Bargaining<br>3. Collective Bargaining in India<br>4. Workers' Participation in Management- Concept, Objectives and Forms of Workers 'Participation in India<br>5. Working Conditions and lifestyle of Indian workers. |
| 10. | March 2023    | 12 | <b>Module 4: Labour Welfare and Social Security</b><br>1. Concept -Theories and Principles of Labour Welfare<br>2. Agencies for Labour Welfare<br>3. Role of the Labour Welfare Officer<br>4. Social Security-Concept   |
| 11. | April 2023    | 7  | 5. Social Assistance and Social Insurance<br>6. Social Security Measures in India<br>7. Indian Labour Legislations.   |

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Teaching Plan: Academic Year 2022 - 2023

Name of the Faculty: - MAHAJAN SANJAY BABURAO

Class: - TYBA


Subject: - Entrepreneurship & Small-Scale Industries, Paper No. – X & Rural Development, Paper No. – XVI


Department: Economics

| Sr. No.   | Month          | Available Period | Topic/Sub Topic to be Taught  |
|---|----------------|------------------|---|
| <b>Entrepreneurship &amp; Small-Scale Industries, Paper No. – X, Semester V</b> |                |                  |   |
| 1.  | June 2022      | 08               | <b>Module 1: Entrepreneurship</b><br>1. Concept of an entrepreneur and entrepreneurship<br>2. Qualities of the successful entrepreneurs<br>3. Role and functions of entrepreneurs in economic development   |
| 2.  | July 2022      | 13               | 4. Factors influencing entrepreneurship<br>5. Challenges before women entrepreneurship.<br><b>Module 2: Starting a new venture</b><br>1. Project identification - selection and formulation<br>2. Registration of small-scale industries<br>3. Project report<br>4. Sources of finance for a business   |
| 3.  | August 2022    | 14               | 5. Export documents and trends of small enterprises<br>6. Major constraints in export performance.<br><b>Module 3: Small scale industries</b><br>1. Meaning and scope of small-scale industries<br>2. Importance of small-scale industries<br>3. Problems faced by small scale industries<br>4. SWOT analysis for small scale industries<br>5. Forms of business organizations<br>a. Sole proprietorship – Features, advantages & disadvantages |
| 4.  | September 2022 | 11               | b. Partnership - Features, advantages & disadvantages.<br>c. Joint-stock Company – Features, advantages & disadvantages.<br>d. Co-operative – Features, advantages & disadvantages.<br><b>Module 4: Management and incentives for small scale industries</b><br>1. Fundamentals of management<br>2. productions and operations management<br>3. Working capital management<br>4. Marketing management   |
| 5.  | October 2022   | 09               | 5. Human resource management<br>6. Total quality management<br>7. Management information system<br>8. Incentives for small scale industries   |

| <b>Rural Development: Paper No. – XVI, Semester - VI</b> |               |           |   |
|--|---------------|-----------|---|
| 6.   | November 2022 | <b>04</b> | <b>Module 1: Rural Development: Introductory Aspects</b><br>1. Concept, Nature and Scope of Rural Development   |
| 7.   | December 2022 | <b>12</b> | 2. Characteristics of the Rural Economy<br>3. Objectives and Importance of Rural Development<br>4. The problems of Rural Development in India   |
| 8.   | January 2023  | <b>12</b> | <b>Module 2: Approaches to Rural Development</b><br>1. Gandhian Approach<br>2. Rural Reconstruction Approach<br>3. Community Development Approach<br>4. Sectoral Approach<br>5. Participatory Approach<br>6. Area- Specific and Target Group Oriented Approach  |
| 9.   | February 2023 | <b>12</b> | 7. Integrated Rural Development and Economic Development with Social Justice Approach<br><b>Module 3: Diversification of Rural Economy</b><br>1. Livestock economics<br>2. Dairy Development<br>3. Social Forestry<br>4. Agro-Based Industries: Problems & Remedial Measures<br>5. Role of KVIC in Rural Development          |
| 10.  | March 2023    | <b>12</b> | 6. Recent Development of Science & Technology in Rural Development.<br><b>Module 4: Rural Empowerment Programmes</b><br>1. An Overview of Rural Development Programmes<br>2. Provisions of Urban Amenities in Rural Area (PURA)<br>3. Rural Employment: Mahatma Gandhi National Rural Employment Guarantee Act-2005 (MGNREGA) |
| 11.  | April 2023    | <b>07</b> | 4. Rural Livelihoods: Deendayal Antyodaya Yojana - National Rural Livelihoods Mission (DAY-NRLM)<br>5. National Social Assistance Programme (NSAP), Microfinance and Self-help Groups   |

  
Subject Teacher

  
Head of Department  
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Principal  
Principal  
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SES's

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College, Kalamboli.

**Teaching Plan: Academic Year 2022 - 2023**

Name of the Faculty: - MAHAJAN SANJAY BABURAO

Class: - SYBA (Lecture: Monday, Tuesday, Friday) Sub:- Macroeconomics-I & II

| Sr. No.                                 | Month            | Available Period | Topic/Sub Topic to be Taught   |
|---|------------------|------------------|--|
| <b>Semester - III</b>                   |                  |                  |  |
| 1                                       | June 2022        | 10               | <b>Module-1, Introduction to Macroeconomics &amp; National Income</b><br>1. Meaning and scope of Macro Economics<br>2. Concepts of National Income: GNP, NNP, GDP, NDP, Per Capita Income, Personal Income, and Disposal Income<br>3. Methods and Difficulties in Measurement of National Income<br>4. Circular Flow of Income: Closed (Two and Three Sector Models) |
| 2                                       | July-2022        | 13               | 5. Circular Flow of Income Open Economy Model<br><b>Module - 2, Consumption &amp; Investment</b><br>1. Say's Law of Market<br>2. Theory of Effective Demand<br>3. Consumption Function<br>4. Investment Function<br>5. Marginal Efficiency of Capital and Rate of Interest   |
| 3                                       | August - 2022    | 10               | 6. Investment Multiplier<br><b>Module:3, Money</b><br>1. Money and Function of Money<br>2. Supply of Money: Constituents<br>3. Determinants of Money Supply<br>4. Velocity of Circulation of Money<br>5. RBI's Approach to Measurement of Money Supply (Liquidity Measures)<br>6. Demand Money: - i) Classical Approach  |
| 4                                       | September - 2022 | 10               | ii) Keynesian Approach iii) Friedman's Approach<br><b>Module-4. Banking in India</b><br>1. Commercial Banks: Functions<br>2. Multiple Credit Creation Process<br>3. Balance Sheet of Commercial Bank<br>4. Development in Commercial Banking Sector Since 1990-91  |
| 5                                       | October - 2022   | 6                | 4. Central Bank: Functions of Central Bank-<br>5. Traditional, Development, Promotional  |
| <b>Macroeconomics-II, Semester - IV</b> |                  |                  |  |
| 6                                       | November - 2022  | 04               | <b>Module: 1, Inflation</b><br>1. The Economics of Depression<br>2. Hyper Inflation; Inflation: Features and Causes  |



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Teaching Plan: Academic Year 2022 - 2023

Name of the Faculty: - MAHAJAN SANJAY BABURAO

Class: - TYBA Subject: - Advanced Microeconomics & Advanced Macroeconomics-III

Department: Economics (Lectures: Monday, Tuesday, Wednesday, Thursday)

| Sr. No.  | Month          | Available Period | Topic/Sub Topic to be Taught  |
|--|----------------|------------------|---|
| <b>Advanced Microeconomics - III, Paper- VII, Semester - V</b> |                |                  |   |
| 1.   | June 2022      | 09               | <b>Module 1: General Equilibrium and Welfare Economics</b><br>1. Concept of General Equilibrium<br>2. Walrasian General Equilibrium Model<br>3. Pareto Optimality<br>4. The Pareto Optimality Condition of Social Welfare<br>5. Marginal Conditions for Pareto Optimal Resource Allocation  |
| 2.   | July 2022      | 13               | 6. Perfect Competition and Pareto Optimality<br>7. Arrow's Impossibility Theorem<br><b>Module 2: Market Structure: Monopoly and Monopolistic Competition</b><br>1. Concept of Monopoly<br>2. Measurement of Monopoly Power<br>3. Price Discrimination: Types and Classification of Price Discrimination (Degrees of Price Discrimination)<br>4. Equilibrium under discriminating Monopoly |
| 3.   | August 2022    | 13               | 5. Regulation of Monopoly Market Product Differentiation in Monopolistic Competition<br>6. Chamberlin's Alternative approach- Equilibrium under Monopolistic Competition<br>7. Excess Capacity<br><b>Module 3: Oligopoly</b><br>1. The Cournot Model<br>2. Meaning and Characteristics of Oligopoly Market  |
| 4.   | September 2022 | 09               | 3. Rigid Prices - The Sweezy Model of Kinked Demand Curve<br>4. Collusive Oligopoly - Cartel: Centralized and Market Sharing Cartel<br>5. Imperfect Collusion- Price Leadership Models<br>6. Game Theory - Prisoner's Dilemma, Nash Equilibrium, and Dominant Strategy Equilibrium  |
| 5.   | October 2022   | 10               | <b>Module 4: Information Economics</b><br>1. Economics of Search and Search Cost<br>2. The Theory of Asymmetric Information<br>3. The Market for Lemons and Adverse Selection<br>4. Risk Preference and Expected Utility<br>5. The Problem of Moral Hazard<br>6. Market Signaling<br>7. Principal-Agent Problem   |

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|----|-----------------|----|---|
|    |                 |    | 3. Demand-Pull Inflation and Cost-Push Inflation  |
| 7  | December - 2022 | 12 | 4. Effects of Inflation<br>6. Nature of Inflation in Developing Economy<br>7. Phillips Curve;<br>8. Stagflation: Meaning, Causes, and Consequences<br><b>Module – II: Economic Policy</b><br>1. Monetary Policy: Objectives<br>2. Instruments<br>3. Limitations   |
| 8  | January - 2023  | 13 | 4. Role of Monetary Policy in Developing Economies<br>5. Fiscal Policy - Objectives<br>6. Instruments<br>7. Limitations<br>8. Role of Fiscal Policy in Developing Economies<br><b>Module – III: Post Keynesian Economics</b><br>1. The IS-LM Model of Integration of Commodity and Money Market<br>2. IS Curve: Derivation of IS Curve,   |
| 9  | February-2023   | 12 | 3. Shift in IS Curve, Equilibrium in Goods Market;<br>4. LM Curve: Derivation of LM Curve,<br>5. Shift in LM Curve,<br>6. Equilibrium in Money Market; Simultaneous Equilibrium in Goods and<br>7. Money Market<br><b>Module – IV: External Sector</b><br>1. Balance of Payment: Structure<br>2. Disequilibrium in Balance of Payment<br>3. Types and Causes<br>4. Measures to Correct Balance of Payment Disequilibrium; |
| 10 | March - 2023    | 10 | 5. Foreign Exchange Market:<br>6. Determination of Exchange Rate<br>7. Fixed and Flexible Exchange Rate;<br>8. Spot and Forward Exchange Rate<br>9. Exchange-Rate Policy  |

*Suiny*  
Subject Teacher

*Suiny*  
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| Advanced Macroeconomics - III Paper-XIII, Semester - VI |               |    |   |
|---|---------------|----|---|
| 6.  | November 2022 | 07 | <b>Module 1: Post Keynesian Synthesis</b><br>1. Derivation of Aggregate Demand Curve with IS-LM<br>2. Aggregate Supply Curve<br>3. Determination of Equilibrium National Income and Price Level under Aggregate Demand and Aggregate Supply Model<br>4. Extension of IS-LM Model with Labour Market and Flexible Prices       |
| 7.  | December 2022 | 13 | 5. Natural Rate of Unemployment- Long run Philips Curve<br>6. Friedman's Expectation Model<br>8. Tobin's Modified Philips Curve –<br>9. Adaptive Expectations and Rational Expectations.<br><b>Module 2: Trade Cycles</b><br>1. Meaning- Nature- Features and Types of Trade Cycles<br>2. Phases of Trade Cycles              |
| 8.  | January 2023  | 14 | 3. Theories of Trade Cycles: -<br>a. Hawtrey's<br>b. Kaldor<br>c. Paul Samuelson<br>d. Hicks<br>4. Measures to Control Trade Cycles.<br><b>Module 3: Exchange Rate Regimes and Currency Crises</b><br>1. Managed Exchange Rate- Advantage and Disadvantage<br>2. Policy of Managed Flexibility<br>a. Adjustable Peg System    |
| 9.  | February 2023 | 13 | b. Crawling Peg System<br>c. Managed Floating System<br>d. Clean and Dirty Float System<br>3. Balance of Payment and Exchange Rate<br>4. Is Balance of Payments Always in Balance?<br>5. Convertibility of Currency<br>6. Currency Crisis-Causes, Impact, and Measures.   |
| 10  | March 2023    | 12 | <b>Module 4: International Monetary System</b><br>1. Rise and Fall of International Gold Standard<br>2. Bretton Woods System- Breakdown of the Bretton Woods System<br>3. Monetary System after the Collapse of Bretton Woods System<br>4. Maastricht Treaty<br>5. Features, Effects, and Importance of Euro- Currency Market |
| 11.   | April 2023    | 08 | 6. Causes and Consequences of Global Economic Crisis<br>7. Impact of Global Recession on the Indian Economy<br>8. Asia Infrastructure Investment Bank (AIIB)<br>9. New Development Bank (NDB): Asian Development Bank (ADB).  |

*Surya*  
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Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan: Academic Year 2022 - 2023

Name of the Faculty: - MAHAJAN SANJAY BABURAO

Class: - TYBA

Subject: - Economics of Growth and Development & International Economics

Department: Economics (Friday-02, Saturday-02)

| Sr. No.   | Month          | Available Period | Topic/Sub Topic to be Taught  |
|---|----------------|------------------|---|
| <b>Economics of Growth and Development: Paper VIII, Semester –V</b> |                |                  |   |
| 1.  | June 2022      | 09               | <b>Module 1: Meaning of Economic Growth and Development</b><br>1. Concepts of Economic Growth and Development<br>2. Distinction between Economic Growth and Development<br>3. Concept of Human Development-<br>a. H.D. I  |
| 2.  | July 2022      | 13               | b. G.D.I<br>c. Green GDP<br>d. Sen's Capability approach<br>4. Millennium Development Goals (MDGs)- Initiative by the Indian government toward MDGs<br><b>Module 2: Theories of Economic Development</b><br>1. Rostow's stages of growth<br>2. Big Push Theory<br>3. Leibenstein's Critical Minimum Effort Thesis   |
| 3.  | August 2022    | 14               | 4. Harrod - Domar Growth Model<br>5. Lewis Model of an unlimited supply of labour<br>6. Ragner Nurkse's Theory of Disguised Unemployment<br>7. Schumpeter's Theory of Development<br><b>Module 3: Structural Issues in Development Process</b><br>1. Concept of Human Capital<br>2. Role of Education<br>3. Health and nutrition in Human Capital<br>4. Meaning and Measurement of Poverty and Inequality |
| 4.  | September 2022 | 12               | 5. Measures to eradicate poverty and Inequality<br>6. Meaning of Inclusive growth<br>7. SHG and Microfinance<br>8. Migration<br>9. Urbanization<br>10. Formal and Informal Sector<br>11. Urban Informal Sector<br><b>Module 4: Planning, Technology and Economic Development</b><br>1. Concept and Role of infrastructure in Economic Development   |

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| 5.   | October<br>2022  | 09 | 2. Role of technology in Economic Development<br>3. Labour intensive versus Capital intensive technology<br>4. Schumacher's concepts of intermediate and appropriate technology<br>5. Green Technology<br>6. Meaning and Types of Economic Planning<br>7. Role of Planning in Economic Development   |
| <b>International Economics: Paper XIV, Semester - VI</b> |                  |    |  |
| 6.   | November<br>2022 | 06 | <b>Module 1: Introduction to Trade Theories</b><br>1. Meaning, scope, and importance of International Trade<br>2. Difference between Internal and International Trade  |
| 7.   | December<br>2022 | 13 | 3. Adam Smith's Theory of International Trade<br>4. Ricardian theory of comparative cost difference<br>5. Heckscher- Ohlin Theory<br>6. Leontief's Paradox<br>7. Krugman's Model<br><b>Module 2: Balance of Trade and Balance of Payment</b><br>1. Concepts of Terms of Trade (Net barter, Gross barter, and Income terms of trade)                            |
| 8.   | January<br>2023  | 14 | 2. Meaning and difference between Balance of Trade (BOT) and Balance of Payment (BOP)<br>3. Purchasing Power Parity theory<br>4. Law of Reciprocal Demand<br>5. Marshall-Edgeworth Offer curves<br>6. Gains from trade<br>7. Case for and against Free Trade and Protection policy   |
| 9.   | February<br>2023 | 12 | <b>Module 3: Foreign Exchange Market</b><br>1. Meaning and Functions of Foreign Exchange Market<br>2. Exchange rate determination<br>3. Factors influencing the foreign exchange rate<br>4. Managed Flexibility-SWAP Market  |
| 10.  | March<br>2023    | 13 | 5. Components of foreign exchange reserves Foreign Aid Vs Foreign Trade<br>6. FDI and MNCs<br><b>Module 4: International Economic Institutions and Economic Integration</b><br>1. IMF: Role and Functions<br>2. World Bank: Role and Functions<br>3. WTO-Objectives<br>4. Functions and Agreements with respect to TRIPS, TRIMS, GATS, Agreement o Agriculture |
| 11.  | April<br>2023    | 07 | 5. Forms and objectives of Economic Integration<br>6. Cartels-Trade Blocs<br>7. ASEAN- European Union (EU)<br>8. NAFTA and SAARC.  |

*Sujay*  
Subject Teacher

*Sujay*  
Head of the Department  
**Head**

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*Shamika*  
**VC PRINCIPAL**  
Principal  
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Tal :- Panvel, Dist :- Raigad.

SES's

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year - 2022-23

Name of the Faculty :- Mali Pratiksha P.

Class :-T.Y.B.A.

Sub :-**Paper – VII**

Department :**GEOGRAPHY**

| Sr. No.   | Month                   | Available Period | Topic/Sub Topic to be Taught  |
|---|-------------------------|------------------|---|
| <b>SEMESTER - V</b><br><b>REGIONAL PLANNING AND DEVELOPMENT</b> |                         |                  |   |
| 1.  | June - 2022             | 08               | <b>UNIT – I: Understanding Regional Planning</b><br>1.1 Planning: Concept, types and need<br>1.2 Regional planning: Concept, nature, relation with Geography<br>1.3 Role of surveys and geospatial technology in regional planning  |
| 2.  | July -2022              | 16               | 1.4 Problems associated with regional planning<br><b>UNIT – II: Concept of Region in Planning</b><br>2.1 Region: Concept, types and delineation<br>2.2 Planning Regions: Need, characteristics and hierarchy<br>2.3 Demarcation of planning regions: Principles, criteria and methods<br>2.4 Perroux's Growth Pole Theory and regional planning |
| 3.  | August – 2022           | 15               | <b>UNIT – III: Understanding Regional Development</b><br>3.1 Development: Concept and indicators<br>3.2 Regional disparities in development: Concept and measurements<br>3.3 Spatial and Non-Spatial Models of Development with Special Reference to Rostow's Model and Myrdal's Model<br>3.4 Strategies for regional development               |
| 4.  | September – 2022        | 13               | <b>UNIT – IV: Regional Planning in India – I</b><br>4.1 Five-Year Plans: Features, achievements and failure<br>4.2 Multi-level planning in India<br>4.3 Planning regions of India<br>4.4 Changing planning mechanism of India: NITI Ayog  |
| 5.  | October – November 2022 | 13               | <b>UNIT – V: Regional Planning in India – II</b><br>5.1 Micro level planning in rural area<br>5.2 Backward area development programme<br>5.3 Urban fringe of Indian cities: Problems and planning<br>5.4 Metropolitan Planning: A Case of Mumbai Metropolitan Region  |
| <b>SEMESTER – VI</b><br><b>ECONOMIC GEOGRAPHY</b>               |                         |                  |   |
| 6.  | December – 2022         | 14               | <b>Unit – 1. : Introduction of Economic Geography</b><br>1.1 Definition, Nature, Scope and Branches of Economic Geography<br>1.2 Approaches of Economic Geography and Relation with other social sciences   |



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|-----|-----------------|----|--|
|     |                 |    | 1.3 Concept and Operation of Economy   |
| 7.  | January – 2023  | 16 | 1.4 Resources: Concept, Classification and Importance in Economy<br><b>Unit – 2. : Economic Activities</b><br>2.1 Economic Activities: Type and Characteristics<br>2.2 Factors Affecting Economic Activities<br>2.3 Agriculture and Lumbering: Types and Distribution<br>2.4 Fishing and Animal Husbandry: Types and Distribution  |
| 8.  | February - 2023 | 15 | <b>Unit – 3. : Minerals and Industries</b><br>3.1 Minerals: Importance, Characteristics and Distribution of IronOre, Manganese, Coal and Mineral Oil<br>3.2 Factors Affecting Industrial Locations<br>3.3 Weber’s Industrial Location Theory<br>3.4 Major Industrial Regions of the World  |
| 9.  | March - 2023    | 17 | <b>Unit – 4. : Transport and International Trade</b><br>4.1 Transportation: Importance and influencing factors<br>4.2 Major Transport Patterns in the World<br>4.3 Patterns of International Trade: Composition and Direction<br>4.4 Major International Trade Organizations: WTO, OPEC, SAARC, G-20 and BRICS<br><b>Unit – 5 : Economic Development of India</b><br>5.1 Levels of Economic Development in India |
| 10. | April - 2023    | 06 | 5.2 Globalization and its impact on Indian economy<br>5.3 Special Economic Zones: Concept and issues in India<br>5.4 Environment and Economic Development and related issues   |

*Pnali*  
Subject Teacher

*PP Mahajan*  
Head of the Department  
Head  
Department of Geography  
S. M. D. L. College, Kalamboli.



*S. M. D. L.*  
Principal

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Tal. - Panvel, Dist. - Raigad.

## SES's

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

**Teaching Plan** : Academic Year -2022-2023

Name of the Faculty : - Salunkhe Vasundhara Dattaram

Class :- F.Y.B.A.

Sub :- ECONOMICS I& II

**Department : ECONOMICS**

| Sr. No.                                | Month     | Available Period | Topic/Sub Topic to be Taught  |
|--|-----------|------------------|---|
| <b>SEMESTER – I Microeconomics - I</b> |           |                  |   |
| 1.                                     | August    | 15               | <p><b>Module - I: Introduction to Microeconomics</b></p> <p>Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept</p> <p><b>Module - II: Ten Principles of Economics</b></p> <p>Trade-Off Faced by the Individuals; Significance of Opportunity Cost in Decision Making; Thinking at the Margin; Responses to incentives; Benefits from Exchange; Organization of Economic</p>   |
| 2.                                     | September | 17               | <p>Activities through Markets and its Benefits; Role of Government in improving Market Outcomes; Dependence of Standard of Living on Production; Growth in Quantity of Money; Inflation and Unemployment Trade Off</p> <p><b>Module - III: Markets, Demand and Supply</b></p> <p>What is a Market; What is Competition; Demand Curves: Market Demand versus Individual Demand Movements along the Demand Curve, Shifts in the Demand Curve; Supply Curves: Market Supply and Individual Supply, Shifts in Supply Curve; Market Equilibrium Three Steps to Analyze Changes in Equilibrium; Price Elasticity of Demand, Methods of Measuring Price Elasticity of Demand – Total Outlay Method, Percentage Method and Point Method; Concepts of Income Elasticity of Demand, Cross Elasticity of Demand and Promotional Elasticity of Demand</p> |
| 3.                                     | October   | 13               | <p><b>Module IV: Consumer's Behavior</b></p> <p>Introduction to Cardinal and Ordinal Approaches</p>   |
| 4.                                     | November  | 10               | <p>Introduction to Cardinal and Ordinal Approaches Indifference</p>   |








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|--|----------|----|---|
|  |          |    | Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering   |
| <b>SEMESTER – II Microeconomics – II</b> |          |    |   |
| 5.                                       | December | 13 | <b>Module - I: Production Analysis:</b><br>Concept of Production Function, Types of Production Function Cobb-Dougllass Production Function. Concepts of Total Average and Marginal Product, Law of  |
| 6.                                       | January  | 16 | Variable Proportion and Returns to Scale, Iso- quants Iso-quants and Producer's equilibrium.<br><b>Module - II: Cost &amp; Revenue Analysis:</b><br>Concepts of Cost Social Money and Real Cost Cost, Private Cost , Explicit and Implicit Cost Opportunity Cost Relationship between Average , Marginal and Total Cost, Derivation of Short run and Long run Cost Curve, Concepts of Revenue,  |
| 7.                                       | February | 15 | Types and Interrelationship.<br><b>Module - III: Factor Pricing</b><br>Marginal Productivity Theory of Distribution, Ricardian Theory Of Rent, Modern theory of rent , Quasi rent – Wages Wages, Modern theory of wages, Collective bargaining, Supply Curve of Labour, Interest- Classical theory of interest, Loanable funds theory of interest, Profit- Risk and uncertainty theory , innovation theory<br><b>Module IV: Equilibrium in different market structure</b><br>Concept of equilibrium TR-TC AND MR-MC approach, |
| 8.                                       | March    | 14 | features of perfect Competition Monopoly and Monopolistic competition and Short run and long run equilibrium of Firm and Industry under each market condition selling cost and wastages under monopolistic competition.   |

  
Subject Teacher

  
Head of the Department  
Head  
Department of Economics  
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Principal  
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Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

**Teaching Plan** : Academic Year – 2022- 23

Name of the Faculty :- Salunkhe Vasundhara Dattaram

Class :- S.Y.B.A.

Sub :- Public Economics & Indian Economy

**Department : ECONOMICS**

| Sr. No.  | Month     | Available Period | Topic/Sub Topic to be Taught   |
|--|-----------|------------------|--|
| <b>SEMESTER – III (Public Economics) Paper No IV</b> |           |                  |  |
| 1.   | June      | 07               | <b>Unit – I Introduction</b><br>Meaning and Scope of Public Finance; Public Finance versus Private Finance; Market Failure: Public Goods and Private Goods, Externalities, Efficiency versus Equity; Principles of Sound Finance and Functional Finance; Allocation, Distribution  |
| 2.   | July      | 14               | Stabilization and Growth Functions of the Government<br><b>Unit - II Fiscal Policy: Budget and Taxation</b><br>Dalton's and Musgrave Versions of the Law of Maximum Social Advantage; Role of Government in a Modern Economy; Types of Public Budget; Structure of Public Budget; Role of Taxation; Merits and Demerits of Direct and Indirect Tax Policy; Features of Good Tax System; Concept of Impact, Incidence and Shifting of Taxation Elasticity and Determination of Tax Burden |
| 3.   | August    | 11               | <b>Unit III Fiscal Policy: Public Expenditure and Debt</b><br>Canons of Public Expenditure; Classification of Public Expenditure; Wagner's Law of Public Expenditure; Public Expenditure as an Instrument of Fiscal Policy; Meaning and Types of Public Debt; Burden of Public Debt; Principles of Public Debt Management Concepts of Deficits   |
| 4.   | September | 09               | <b>Unit IV Indian Public Finance</b><br>Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax And Non-Tax, Introduction To GST); Components of Public Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth  |
| 5.   | October   | 04               | Finance Commission Recommendations   |
| <b>SEMESTER – IV (Indian Economy) Paper No . VI</b>  |           |                  |  |
| 6.   | November  | 10               | <b>Module- I: Introduction</b><br>Trends in India's National Income and PCI Since 1990; Structural Changes In Indian Economy; Brief Overview of the Employment Generation and Poverty Alleviation Programmes; Regional Inequalities;   |
| 7.   | December  | 13               | Measures to Reduce Regional Inequalities in India  |



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|-----|----------|----|---|
|     |          |    | <b>Module - II: Agricultural Sector</b><br>Role of Agriculture in Economic Development; Causes of Low Productivity Agricultural Inputs; Agricultural Price Policy; Recent Minimum Support Price Policy; Income Support for Farmers; Sources of Agricultural Finance; Micro Finance; NABARD: Role and Function; Agricultural Marketing: Structure and Problems; National Policy for Farmers, 2007; Organic Farming Policy; Food Security in India  |
| 8.  | January  | 14 | <b>Module -III: Industrial Sector</b><br>Infrastructure for Industrial Development Industrial Policies in India; Industrial Policy of 1991; Micro, Small and Medium Enterprises (MSMEs): Classification, Role and Policy Measures; Growth of Large Scale Industries and Economic Development; Recent Policies and Programs for Industrial Development: Start Up India, Make in India, Skill India; Role and Trends of FDI in Industrial Sector Development<br><b>Module -IV: Service Sector</b><br>Role of Service Sector in Indian Economy; Growth and |
| 9.  | February | 11 | Performance of Healthcare Performance of Trade and Tourism, Information Technology and IT - Enabled Services; Research and Development Services With Reference to Education and Skill Development in Employment Generation in India; Performance of Service Sector during XII <sup>th</sup> Five Year Plan  |
| 10. | March    | 04 | Revision  |

*Heerme*  
Subject Teacher

*Surjiv*  
Head of the Department  
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*S. Kamble*  
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**Teaching Plan : Academic Year – 2022-2023**

Name of the Faculty : - Salunkhe Vasundhara Dattaram

Class :- S.Y.B.A.Sub :- Advertising I&II

**Department : Economics**

| Sr. No.               | Month     | Available Period | Topic/Sub Topic to be Taught   |
|-----------------------|-----------|------------------|--|
| <b>SEMESTER - III</b> |           |                  |  |
| 1.                    | June      | 10               | <p><b>1 Introduction to Advertising</b></p> <ul style="list-style-type: none"> <li>• <b>Integrated Marketing Communications (IMC)</b>- Concept, Features, Elements, Role of advertising in IMC</li> <li>• <b>Advertising:</b> Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers. •<b>Classification of advertising:</b> Geographic, Media, Target audience and Functions.</li> </ul>   |
| 2.                    | July      | 18               | <p><b>2 Advertising Agency</b></p> <ul style="list-style-type: none"> <li>• <b>Ad Agency:</b> Features, Structure and services offered, Types of advertising agencies , Agency selection criteria</li> <li>• <b>Agency and Client:</b> Maintaining Agency–Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation • <b>Careers in advertising:</b> Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modeling, Dubbing.</li> </ul>   |
| 3.                    | August    | 13               | <p><b>3 Economic &amp; Social Aspects of Advertising</b></p> <ul style="list-style-type: none"> <li>• <b>Economic Aspects:</b> Effect of advertising on consumer demand, monopoly and competition, Price.</li> <li>• <b>Social aspects:</b> Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture. • <b>Pro Bono/Social advertising:</b> Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body- Role of ASCI (Advertising Standard Council of India)</li> </ul> |
| 4.                    | September | 16               | <p><b>4 Brand Building and Special Purpose Advertising</b></p> <ul style="list-style-type: none"> <li>• <b>Brand Building:</b> The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises.</li> <li>• <b>Special purpose advertising:</b> Rural advertising, Political advertising-, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising. • <b>Trends in Advertising:</b> Media, Ad spends, Ad Agencies, Execution of advertisements</li> </ul>                               |





|                      |          |    |  |
|----------------------|----------|----|--|
| 5.                   | October  | 05 | Revision   |
| <b>SEMESTER - IV</b> |          |    |  |
| 6.                   | November | 13 | <b>1 Media in Advertising</b> <ul style="list-style-type: none"><li>• <b>Traditional Media:</b> Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media</li><li><b>New Age Media:</b> Digital Media / Internet Advertising – Forms, Significance and Limitations</li><li>• <b>Media Research:</b> Concept, Importance, Tool for regulation - ABC and Doordarshan Code</li></ul>   |
| 7.                   | December | 14 | ABC and Doordarshan Code<br><b>2 Planning Advertising Campaigns</b> <ul style="list-style-type: none"><li>• <b>Advertising Campaign:</b> Concept, Advertising Campaign Planning - Steps Determining advertising objectives - DAGMAR model</li><li>• <b>Advertising Budgets:</b> Factors determining advertising budgets, methods of setting advertising budgets, Media Objectives - Reach, Frequency and GRPs</li><li>• <b>Media Planning:</b> Concept, Process, Factors considered while selecting media, Media Scheduling Strategies</li></ul>   |
| 8.                   | January  | 18 | <b>3 Fundamentals of Creativity in Advertising</b> <ul style="list-style-type: none"><li>• <b>Creativity:</b> Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization</li><li>• <b>Creative aspects:</b> Buying Motives - Types, Selling Points- Features, Appeals – Types, Concept of Unique Selling Proposition (USP)</li><li>• <b>Creativity through Endorsements:</b> Endorsers – Types, Celebrity Endorsements – Advantages and Limitations, High Involvement and Low Involvement Products</li></ul> |
| 9.                   | February | 15 | <b>4 Execution and Evaluation of Advertising</b> <ul style="list-style-type: none"><li>• <b>Preparing print ads:</b> Essentials of Copywriting, Copy – Elements, Types, Layout- Principles, Illustration - Importance.</li><li>• <b>Creating broadcast ads:</b> Execution Styles, Jingles and Music – Importance, Concept of Storyboard</li><li><b>Evaluation:</b> Advertising copy, Pre-testing and Post-testing of Advertisements – Methods and Objectives</li></ul>   |
| 10.                  | March    | 04 | • Revision   |

*Beccane*

Subject Teacher

*Gurij*

Head of the Department

Department of Economics  
S. M. D. L. College, Kalamboli.

*S. M. Dadasaheb Limaye*

Principal  
I/C PRINCIPAL

SES'S S. M. Dadasaheb Limaye  
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Tal :- Panvel, Dist :- Raigad.

**SES's**

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

**Teaching Plan** : Academic Year – 2022- 23

Name of the Faculty :- Salunkhe Vasundhara Dattaram

Class :- T.Y.B.A.

Sub :- **ECONOMY OF MAHARASHTRA**

Department : **ECONOMICS**

| Sr. No.   | Month     | Available Period | Topic/Sub Topic to be Taught   |
|---|-----------|------------------|--|
| <b>SEMESTER – V ECONOMY OF MAHARASHTRA-I PAPER NO – XII</b>     |           |                  |  |
| 1.  | June      | 08               | <b>Module 1: Introduction to Economy of Maharashtra</b><br>Location and administrative divisions- Important features of the economy of Maharashtra- land, forest, climate and rainfall, fisheries and mineral resources-Formation of Maharashtra state-Sanyukt Maharashtra Movement – structural changes in state domestic product since 1991  |
| 2.  | July      | 13               | Maharashtra's place in India in various economic indicators.<br><b>Module 2: Demography of Maharashtra</b><br>Size and growth rate -Density- Birth rate, Death rate and infant mortality rate - Urban and rural population -Literacy rate - Sex ratio - Migration - Labour force -SC and ST population - Employment Guarantee Scheme (EGS) -   |
| 3.  | August    | 11               | Unemployment and poverty<br><b>Module 3: Agriculture Development in Maharashtra</b><br>Significance of agriculture in the economy of Maharashtra - Land utilisation in Maharashtra- Cropping pattern and per hectare yield - Trends in land productivity - Land reforms -Intensity of irrigation - Inequalities in land distribution in Maharashtra - Cooperatives in Maharashtra- Agricultural finance - Food security-Concept of PDS- Buffer stock of foodgrains- Allocation -   |
| 4.  | September | 13               | Issue of farmers suicide - Agricultural policy in Maharashtra.<br><b>Module 4: Industrial Sector &amp; Service Sector in Maharashtra</b><br>Major manufacturing industries - Important ratios of industrial groups in Maharashtra - Incentives and promotions to various industries in Maharashtra -Industrial policy of Maharashtra 2019 and 2024 -The role of MIDC, SICOM, MSFC, SEZ in industrial development - Foreign Direct Investment (FDI) in Maharashtra since 1991- Role of service sector in the economy of Maharashtra - |
| 5.  | October   | 09               | sector in employment -Banking and finance & Revision   |
| <b>SEMESTER – VI ECONOMY OF MAHARASHTRA-II PAPER NO – XVIII</b> |           |                  |  |
| 6.  | November  | 07               | <b>Module 1: Infrastructure in the Economy of Maharashtra</b><br>Importance of infrastructure in economic development -Types of infrastructure: 1. Economic infrastructure; Energy, Transport & Communication - Sources of energy -Power generation - Existing Capacity - Power crises -Development of roads -   |



|     |          |    |  |
|-----|----------|----|--|
| 7.  | December | 12 | Rail transport- Water transport- Civil aviation- Irrigation projects - Communication Network 2. Social Infrastructure: Health and education facilities in Maharashtra.<br><b>Module 2: Fiscal Policy of Maharashtra</b><br>State Finance Commission, budget of state Government - Revenue Expenditure - Development and non development expenditure- Capital Expenditure- Development and non development expenditure - Trends in state Government expenditure Share in Central Government tax revenue - |
| 8.  | January  | 18 | Taxes collected by state Government- Sources of non-tax revenue- Capital revenue sources- Trends in state Government revenue.<br><b>Module 3: Regional Imbalance in Maharashtra State</b><br>Meaning of regional imbalance -Nature of regional imbalances in Maharashtra - Causes of Regional Imbalance in Maharashtra - Problems Creates by Regional Imbalance in Maharashtra -Policy measures by State Government of Maharashtra for Regional Development.   |
| 9.  | February | 16 | <b>Module 4: Human Development in Maharashtra</b><br>Concept and importance - Comparison of HDI with other states in India - Region-wise HDI - Indicators of HDI - District-wise HDI in Maharashtra - Present situation and problems of weaker section in Maharashtra - Schemes of empowerment of weaker section in Maharashtra -. Women empowerment in Maharashtra .  |
| 10. | March    | 07 | Revision   |

*Becane*  
Subject Teacher

*Swamy*  
Head of the Department  
Head  
Department of Economics  
S. M. J. P. S. Kamboli

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Principal  
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SES'S S. M. J. P. S. Kamboli  
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Tal - Fardes, Dist - Raigad.



**SES's**

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

**Teaching Plan** : Academic Year – 2022- 23

Name of the Faculty : - Salunkhe Vasundhara Dattaram

Class :- T.Y.B.A.

Sub :- ENVIRONMENTAL ECONOMICS

**Department : ECONOMICS**


| Sr. No.   | Month     | Available Period | Topic/Sub Topic to be Taught  |
|---|-----------|------------------|---|
| <b>SEMESTER – V ENVIRONMENTAL ECONOMICS – I PAPER NO – XI</b> |           |                  |   |
| 1.  | June      | 12               | <b>Module1: Introduction to Environmental Economics</b><br>Environmental Economics: Nature, Significance and Scope; Environment and the economy; Environmental Kuznets Curve; Common resources, externalities and property rights; Coase Theorem; Rio Declaration and Agenda 21 programme of action for sustainable development.  |
| 2.  | July      | 16               | <b>Module 2: The Design and Implementation of Environmental Policy</b><br>Criteria for evaluating environmental policies; Tools of Environmental Policy: Standards, Pigovian taxes/effluent fees, quotas/tradable permits; Choice between taxes and quotas; Environmental Policy: Regulation and Implementation.  |
| 3.  | August    | 14               | <b>Module 3: Measuring Benefits of Environmental Improvements</b><br>Economic value of Environment: Use and Non-use values; Measurement methods of environmental value: Market based and Non-market based methods; Contingent Valuation Method; Travel Cost Method; Hedonic Price Method.   |
| 4.  | September | 15               | <b>Module 4: Global Environmental Issues</b><br>Trade and environment-Overview of trans-boundary environmental problems-Global Warming - Climate Change - Energy Crisis - Challenges of urbanization - International environmental agreements. role of MIDC, SICOM, MSFC, SEZ in industrial development - Foreign Direct Investment (FDI) in Maharashtra since 1991- Role of service sector in the economy of Maharashtra - sector in employment - Banking and finance. |
| 5.  | October   | 08               | Revision  |





| SEMESTER – VI ENVIRONMENTAL ECONOMICS – II PAPER NO – XVII |          |    |   |
|--|----------|----|---|
| 6.   | November | 12 | <b>Module 1: Environmental Degradation</b><br>Concept and types of Environmental Degradation; Renewable and Non-renewable natural resources: Land, Air, Water and Noise Pollution: Causes, effects and measures.  |
| 7.   | December | 12 | <b>Module 2: Environmental Accounting</b><br>Accounting for environmental and natural resources: Meaning and importance; System of Environmental-Economic Accounting (SEEA) and Environmental and Natural Resources Accounting (ENRA); Integration of Environmental Accounts with System of National Accounts: Green GDP; Concept of Green Growth and its Indicators;                                       |
| 8.   | January  | 19 | Concepts of Green Consumer and Green Business.<br><b>Module 3: Sustainable Development and India</b><br>Concept of Sustainable Development; Characteristics and dimensions of Sustainable Development; Sustainable Development Goals and Measures with special reference to India; Smart Cities Mission in India; National Mission For Sustainable Agriculture (NMSA): Objectives, strategy and components. |
| 9.   | February | 16 | <b>Module 4: Environmental Policy in India</b><br>Overview of laws to improve the environment in India; Central pollution Control Board; Industrial Pollution Control Measures in India; Pradhan Mantri Ujjwala Yojana (PMUY); National Green Tribunal. Environmental Education in India.   |
| 10.  | March    | 07 | <b>Revision</b>   |

  
Subject Teacher

  
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Tal - Raigad, Dist - Raigad



सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब तिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली.

अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२२ - २३

विषय शिक्षकाचे नाव :- डॉ. रमेश जाधवर

वर्ग - प्रथम वर्ष - कला

विषय :- मराठी ( ऐच्छिक )

( सत्र - १ )

| अ.कं.    | महिना      | तासिका | घटक - उपघटक   |
|----------|------------|--------|---|
| १        | सप्टेंबर   | १६     | घटक - १ - नाटक या साहित्यप्रकाराचा सैद्धांतिक परिचय                 |
| २        | ऑक्टोबर    | १७     | घटक - २ - 'देवबाभळी' या प्राजक्त देशमुख यांच्या नाटकाचा अभ्यास      |
| ३        | नोव्हेंबर  | ०६     | घटक - ३- 'माझं घर' या जयंत पवार यांच्या नाटकाचा अभ्यास              |
| ४        | डिसेंबर    | १५     | घटक - ३- 'माझं घर' या जयंत पवार यांच्या नाटकाचा अभ्यास              |
| सत्र - २ |            |        |   |
| ५        | जानेवारी   | १७     | घटक - १ - ललीतगद्य या साहित्य प्रकाराचा सैद्धांतिक अभ्यास           |
| ६        | फेब्रुवारी | १५     | घटक - २- परिपूर्ती या इरावती कर्वे यांच्या ललितलेख संग्रहाचा अभ्यास |
| ७        | मार्च      | १७     | घटक - ३ - चर्चबेल या रोस यांच्या ललितलेख संग्रहाचा अभ्यास           |
| ८        | एप्रिल     | ०८     | घटक - ४ - सराव  |

  
विषय शिक्षक

  
Head  
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Tel: 020-25111111



सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली.

अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२२ - २३


विषय शिक्षकाचे नाव :- डॉ. रमेश जाधवर

वर्ग - द्वितीय वर्ष - कला

विषय :- मराठी - कथन साहित्य - पेपर क्रं. - २ ( सत्र - ३ )

| अ क्रं.  | महिना      | तासिका | घटक - उपघटक  |
|----------|------------|--------|--|
| १        | जून        | --     | --   |
| २        | जुलै       | --     | --   |
| ३        | ऑगस्ट      | १२     | घटक - १ कथन साहित्याचा परिचय   |
| ५        | सप्टेंबर   | १७     | घटक - १- अ - कथा व कादंबरी या साहित्य प्रकाराचा सैद्धांतिक अभ्यास    |
| ६        | ऑक्टोबर    | १७     | घटक - २ - फेसाटी या नवनाथ गोरे यांच्या कादंबरीचा अभ्यास              |
| ७        | नोव्हेंबर  | ०४     | घटक - ३ - बकऱ्याची बॉडी या समर खडस यांच्या कथासंग्रहाचा अभ्यास       |
| ८        | डिसेंबर    | ०५     | सराव   |
| सत्र - ४ |            |        |  |
| ९        | जानेवारी   | १७     | घटक - १ - नाट्य (नाटक व एकांकिका) या साहित्यप्रकाराची ठळक वैशिष्ट्ये |
| १०       | फेब्रुवारी | १५     | घटक - २ - आमदार सौभाग्यवती या श्रीनिवास जोशी यांच्या नाटकाचा अभ्यास  |
| ११       | मार्च      | १७     | घटक - ३ - निवडक एकांकिकांचा अभ्यास                                   |
| १२       | एप्रिल     | ०८     | सराव   |

  
विषय शिक्षक

  
Head  
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Tal :- Panvel, Dist :- Raigad.

**Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science  
College, Kalamboli.**

**Teaching Plan: Academic Year – 2022-23**

Name of the Faculty: - Mr. Avinash Pawar

Class: - S.Y.B.A

Subject: - History


Name of Paper: - Ancient India from Earliest Times to 1000 A.D.

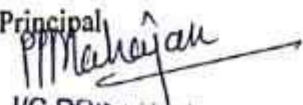
Department: History

| <b>SEMESTER - 3</b> |           |                  |   |
|---------------------|-----------|------------------|---|
| Sr. No.             | Month     | Available Period | Topic/Sub Topic to be Taught  |
| 1.                  | June      | 12               | <b>Module 1: Sources of Ancient India</b><br>1. Archaeological Sources.<br>2. Literary Sources And Foreign Travelers Accounts   |
| 2.                  | July      | 10               | <b>Module 2: Indus Valley Civilization</b><br>1. Socio – Economic, Religious and Cultural Life.<br>2. Town Planning, Architecture, Script and Decline   |
| 3.                  | August    | 12               | <b>Module3: Vedic Age</b><br>1. Polity and Economy<br>2. Socio – Religious life and education   |
| 4.                  | September | 11               | <b>Module4: India in the 6th century B.C.</b><br>1. Age of Janpadas; Persian & Greeck Invasions<br>Jainism & Buddhism: Teaching & Impact.   |
| 5.                  | October   |                  | Revision  |
| <b>SEMESTER - 4</b> |           |                  |   |
| 6.                  | November  | 12               | <b>Module 1: Mauryan and Post Mauryan Period (322 B.C. -320 A.D.)</b><br>1. Chandragupta Maurya, Ashoka & Mauryan administration<br>2. Post Mauryan Dynasties – Sungas, Kushanas & Satavahans |
| 7.                  | December  | 12               | <b>Module 2 Gupta and Vakataka Age (320 A.D.- 600 A.D.)</b><br>1. Imperial Expansion & Administration<br>2. Classical Age – Literature, Art and Architecture.                                 |

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| 8.  | Janurary | 11 | Module 3 India in the Post Gupta period (600A.D. – 1000 A.D.)<br>1. Reign of Harshvardhan<br>2. Invasions of Hunas, Arabs & Rise of Rajputas |
| 9.  | February | 10 | Module 4 Major Dynasties of Deccan & South India<br>1. Chalukyas of Badami & Rashtrakutas.<br>2. Pallavas & Cholas .                         |
| 10. | March    |    | Revision, Pre. Exam.<br>College Exam. & University Exam.   |

  
Subject Teacher

  
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Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli.

Teaching Plan: Academic Year – 2022-23

Name of the Faculty: - Mr. Avinash Pawar

Class: - T.Y.B.A

Subject: - History


Name of Paper: - History of Medieval India (1000 CE – 1526 CE)


Department: History

| SEMESTER - 5 |           |                  |  |
|--------------|-----------|------------------|--|
| Sr. No.      | Month     | Available Period | Topic/Sub Topic to be Taught   |
| 1.           | June      | 12               | <b>Module-1 Beginning, Expansion and Decline of The Sultanate period</b><br>(a) Socio-economic and political conditions on the eve of the Turkish Invasion<br>(b) Rise and Decline of Slave dynasty, Khilji Dynasty (c) Tughlaq, Sayyid and Lodi Dynasty         |
| 2            | July      | 12               | <b>Module II: Administrative Structure of the Sultanate</b><br>(a) Central Administration and Iqta system<br>(b) Administrative and Military Reforms of Ala-ud-din Khilji<br>(c) Reforms of Firozshah Tughlaq and Mohammed bin Tughlaq                           |
| 3.           | August    | 12               | <b>Module III: Vijaynagar and Bahamani Kingdoms</b><br>(a) Rise, Growth and Decline of Vijaynagar and Bahamani Kingdoms<br>(b) Socio-Economic and Cultural conditions of Vijayanagar Empire<br>(c) Administration, and Cultural conditions of Vijayanagar Empire |
| 4.           | September | 11               | <b>Module IV: Society, Economy, Religion and Culture of Delhi Sultanate</b><br>(a) Socio-economic and religious life<br>(b) Education and Literature<br>(c) Art and Architecture   |
| 5.           | October   |                  |  |

| SEMESTER – 6                               |          |    |   |
|--|----------|----|---|
| History of Medieval India (1000 CE-1526CE) |          |    |   |
| 6.   | November | 12 | <b>Module I: Beginning, Expansion and Decline of the Mughal Rule</b><br><br>(a) Socio-economic and political conditions at the time of the establishment of the Mughal Rule;<br>(b) Babur, Humayun and Shershah<br>(c) Akbar, Jahangir, Shahjahan and Aurangzeb |
| 7.   | December | 12 | <b>Module II: Administrative Structure of the Mughals</b><br><br>(a) Central and Provincial Administration<br>(b) Mansabdari System<br>(c) Revenue and Judicial system  |
| 8.   | Janurary | 11 | <b>Module III: Rise of the Maratha Power</b><br><br>(a) Shivaji and Foundation of Swarajya<br>b) Administration of Shivaji<br>(c) Sambhaji, Rajaram and Tarabai   |
| 9.   | February | 10 | <b>Module IV: Society and Economy, Religion and Culture of the Mughal Rule</b><br><br>(a) Society and Economy<br>b) Religion, Education and Literature<br>(c) Art and Architecture  |
| 10.  | March    |    | Revision, Pre. Exam.<br><br>College Exam. & University Exam.  |

  
Subject Teacher

  
Head of the Department  
**Head**  
Department of History  
S. M. D. L. College, Kalamboli.

  
Principal  
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SES'S S. M. Dadasaheb Limaye  
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Tal. - Panvel, Dist. - Raigad.

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli.

Teaching Plan: Academic Year – 2022-23

Name of the Faculty: - Mr. Avinash Pawar

Class: - T.Y.B.A

Subject: - History

Name of Paper: - Introduction to Archaeology

Department: History

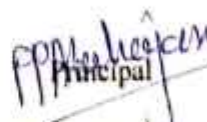
| SEMESTER - 5 |           |                  |   |
|--------------|-----------|------------------|---|
| Sr. No.      | Month     | Available Period | Topic/Sub Topic to be Taught  |
| 1.           | June      | 11               | <b>MODULE – I ARCHAEOLOGY</b><br>A) Definition and Aims of Archaeology.<br>B) Archaeology and History, Archaeology and other Sciences.<br>C) Field Archaeology: Exploration, Excavation and Dating Antiquities  |
| 2            | July      | 11               | <b>MODULE – II EPIGRAPHY</b><br>A) Definition and History of Indian Epigraphy<br>B) Types of inscriptions and their significance.<br>C) Ancient Indian Scripts: Brahmi, Kharoshti, Sharada and Nagari.  |
| 3.           | August    | 12               | <b>MODULE – III NUMISMATICS</b><br>A) Definition and History of Indian Numismatics.<br>B) Ancient Indian Coinage: Punch Marked Coins and Gupta Coins.<br>C) Contribution of Numismatics to Indian History.  |
| 4.           | September | 12               | <b>. MODULE – IV HERITAGE TOURISM</b><br>A) Meaning, Scope and importance of tourism.<br>B) Tourist resources with special reference to Heritage monuments in Maharashtra.<br>i. Ajanta and Ellora<br>ii. Kanheri<br>iii. Gharapuri<br>C) Forts as the tourist resources in Maharashtra with special reference to Architecture: |
| 5.           | October   |                  | Revision & Prelims Exam   |



| <b>SEMESTER - 6</b><br><b>Introduction to Museology and Archival Science</b> |          |    |  |
|--|----------|----|--|
| 6.   | November | 12 | <b>MODULE – I MUSEUMS AND ROLE OF CURATOR</b><br>A) Definition and Museum movement in India.<br>B) Role of Curator as a facilitator, Nature of duties and responsibilities, Qualifications<br>C) Types of Museums  |
| 7.   | December | 12 | <b>MODULE – II COLLECTION OF OBJECTS AND ACTIVITIES OF THE MUSEUM</b><br>A) Methods of collection – Purchase, Exchange, Field collection, Loans, Gifts.<br>B) Types of Exhibitions.<br>C) Changing role of Museums – emphasis on learning – In-house and Outreach activities |
| 8.   | January  | 11 | <b>MODULE – III ARCHIVAL SCIENCE</b><br>A) Meaning, Definition, Scope and Value of records as sources of History.<br>D) Classification of Records.<br>E) Preservation and Retention of Records.  |
| 9.   | February | 10 | <b>MODULE – IV LIBRARY SCIENCE</b><br>A) Definition, Scope and Electronic revolution in library.<br>B) Classification and Cataloguing.<br>C) Care of books and Role of librarian   |
| 10.  | March    |    | Revision, Pre. Exam.<br>College Exam. & University Exam.   |

  
Subject Teacher

  
Head of the Department  
**Head**  
Department of History  
S. M. D. L. College, Kalamboli.

  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

**Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli.**

**Teaching Plan: Academic Year – 2022-23**

Name of the Faculty: - Mr. Avinash Pawar

Class: - T.Y.B.A

Subject: - History


Name of Paper: - History of the Marathas (1707 CE - 1818 CE)

Department: History

| <b>SEMESTER - 5</b>                                |           |                  |  |
|--|-----------|------------------|--|
| Sr. No.  | Month     | Available Period | Topic/Sub Topic to be Taught   |
| 1.   | June      | 11               | <b>Module I: Introduction to Maratha History</b><br>(a) Marathi, Persian and European Sources<br>(b) Deccan in the 17 <sup>th</sup> century – Geo-Political and Economic conditions<br>(c) Socio-Cultural conditions; Maharashtra Dharma |
| 2  | July      | 11               | <b>Module II: Establishment of Swarajya</b><br>(a) Shivaji's relations with Bijapur<br>(b) Shivaji's relations with the Mughals<br>(c) Shivaji's relations with the Europeans  |
| 3.   | August    | 12               | <b>Module III: Period of Consolidation and Crisis</b><br>(a) Coronation and its significance; Shivaji's Karnatak Campaign<br>(b) Sambhaji, Rajaram and Tarabai<br>(c) Civil War : Tarabai and Shahu                                      |
| 4.   | September | 12               | <b>Module IV: Administration during the Royal Period</b><br>(a) Civil Administration<br>(b) Revenue and Judicial Administration<br>(c) Military Administration   |
| 5.   | October   |                  | Revision and Prelims   |
| <b>SEMESTER – 6</b>                                |           |                  |  |
| <b>History of the Marathas (1707 CE – 1818 CE)</b> |           |                  |  |
| 6.   | November  | 12               | <b>Module I: Expansion of the Maratha Power</b><br>(a) Rise of the Peshwas: Balaji Vishwanath<br>(b) Peshwa Bajirao I<br>(c) Maratha Confederacy   |
| 7.   | December  | 12               | <b>Module II: Consolidation of the Maratha Power</b><br>(a) Peshwa Balaji Bajirao (Nanasaheb)<br>(b) Third Battle of Panipat: causes and consequences<br>(c) Defeat of the Marathas and significance of the Third Battle of Panipat      |
| 8.   | January   | 11               | <b>Module III: Post Panipat Revival and Downfall</b>   |

|     |          |    |  |
|-----|----------|----|--|
|     |          |    | (a) Peshwa Madhavrao I<br>(b) Barbhai Council<br>(c) Downfall of the Maratha Power   |
| 9.  | February | 10 | <b>Module IV: Administrative and Socio-Cultural Developments</b><br>(a) Peshwa Administration: Civil, Revenue and Military<br>(b) Society under the Peshwas – Religion, Caste and Position of Women<br>(c) Cultural Developments: Literature, Art and Architecture |
| 10. | March    |    | Revision and Prelims   |

  
Subject Teacher

  
Head of the Department  
Department of History  
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Principal  
H/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli.

Teaching Plan: Academic Year – 2022-23

Name of the Faculty: - Mr. Avinash Pawar

Class: - T.Y.B.A

Subject: - History


Name of Paper: - History of Contemporary World (1945 CE – 2000 CE)


Department: History

| SEMESTER - 5                      |           |                  |  |
|-----------------------------------|-----------|------------------|--|
| Sr. No.                           | Month     | Available Period | Topic/Sub Topic to be Taught   |
| 1.                                | June      | 11               | <b>Module I: Cold War (1945-1985)</b><br>(a) Meaning, Causes of Cold War and Security Pacts<br>(b) Conflicts in Cold War: Germany, Korea and Cuba<br>(c) Economic Revival of Western Europe; Soviet Union's Relations with Eastern Europe                                      |
| 2                                 | July      | 11               | <b>Module II: Europe, U.S.S.R and U.S.A. (1985-2000)</b><br>(a) Disintegration of U.S.S.R<br>(b) Re-drawing of political borders of Germany, Yugoslavia and Czechoslovakia;<br>Emergence of the European Union (EU) in Western Europe<br>(c) U.S.A as the dominant world power |
| 3.                                | August    | 12               | <b>Module III: Movements for Equal Rights and Challenging the Bipolar World (1945-2000)</b><br>(a) Campaigns within and outside South Africa against Apartheid<br>(b) Civil Rights Movement in U.S.A<br>(c) Non-Aligned Movement   |
| 4.                                | September | 12               | <b>Module IV: Major Trends</b><br>(a) Globalisation<br>(b) Sustainable Development<br>(c) Women's Liberation Movement  |
| 5.                                | October   |                  | Revision and Prelims   |
| SEMESTER – 6                      |           |                  |  |
| History of Asia (1945 CE-2000 CE) |           |                  |  |
| 6.                                | November  | 12               | <b>Module I: Transformation of China</b><br>(a) Domestic Policy in People's Republic of China under Mao Zedong<br>(b) Economic Progress in China under Deng Xiaoping<br>(c) Foreign Policy of China with USSR  |
| 7.                                | December  | 12               | <b>Module II: Reconstruction of Japan</b><br>(a) American Occupation of Japan  |

|     |          |    |  |
|-----|----------|----|--|
|     |          |    | (b) Economic Miracle in Japan<br>(c) Foreign Policy of Japan with USA  |
| 8.  | January  | 11 | <b>Module III: South East Asia</b><br>(a) Cold War and Vietnam<br>(b) Guided Democracy in Indonesia<br>(c) Association of South East Asian Nations (ASEAN) |
| 9.  | February | 10 | <b>Module IV: Conflicts in West Asia</b><br>(a) Arab- Israel Conflict (1948-2000)<br>(b) Iranian Revolution of 1979<br>(c) Oil Politics and OPEC           |
| 10. | March    |    | Revision and Prelims   |

  
Subject Teacher

  
Head of the Department  
**Head**  
Department of History  
S. M. D. L. College, Kalamboli.

  
Principal  
I/C-PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

Teaching Plan: Academic Year –: 2022-23

Name of the Faculty :- Commerce

Class :- T.Y.B.Com - Sem.Vth -VIth

Sub :-Business Economics

Department : Commrece

| Sr.No.               | Month         | Available Period | Topic/Sub Topic to be Taught  |
|----------------------|---------------|------------------|---|
| <b>SEMESTER - V</b>  |               |                  |   |
| 1.                   | June          | 12               | <b>1. Macro Economic overview of India</b><br><b>Overview of New Economic Policy-1991</b> , - Role of Social Infrastructure with reference to education, health and family welfare.<br><b>Sustainable Development Goals and Policy measures:</b> Make in India, Invest in India, and Skill Development and Training Programmes.<br><br><b>Foreign Investment Policy Measures in India</b> – Foreign Investment Promotion Board, FDI- MNCs and their role. |
| 2.                   | July          | 12               | <b>2. National Agricultural Policy 2000:</b> Objectives, Features and Implications<br>Agricultural pricing and agricultural finance Agricultural Marketing Development-Agricultural Market infrastructure - Market information-Marketing training- Enabling Environments-Recent developments  |
| 3.                   | Aug.          | 12               | <b>3. Policy Measures- Competition Act 2003</b> , Disinvestment Policy, Micro, Small and Medium Enterprises [MSME sector] since 2007.<br>Industrial Pollution in India: Meaning, Types, Effects and Control.<br>Service Sector: Recent trends, role and growth in Healthcare and Tourism Industry   |
| 4.                   | Sept.<br>Oct. | 06<br>06         | <b>4 . Banking Sector-</b> Recent trends, issues and challenges in Banking and Insurance Industry<br><b>Money Market</b> – Structure, Limitations and Reform  |
| <b>SEMESTER - VI</b> |               |                  |   |
| 1                    | Nov.          | 12               | <b>1. Theories of International Trade</b> - Ricardo's Theory of Comparative Costs and the Heckscher- Ohlin Theory.<br>Terms of Trade - Types and Limitations.   |
| 2                    | Dec.          | 12               | <b>2. Commercial Trade Policy</b> –Free Trade and Protection – Pros and Cons.<br>Tariff and Non-Tariff Barriers: Meaning, Types and Effects   |



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|---|-------|----|---|
|   |       |    | International Economic Integration – Types and Objectives: -EU and Brexit, ASAEN  |
| 3 | Jan.  | 12 | <b>3. Balance of Payment:</b> Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments<br>WTO- Recent Developments in TRIPS, TRIMS and GATS.   |
| 4 | Feb.  | 12 | <b>4. Foreign Exchange market</b><br>Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange.<br>Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage.<br>Role of Central Bank in foreign exchange |
|   | March | 12 |   |

*[Signature]*

Subject Teacher

*[Signature]*

Head of the Department

**Head**

Department of Commerce

S. M. D. L. College, Kalamboli.

*[Signature]*

Principal  
**IC PRINCIPAL**

SES's S. M. Dadasaheb Limaye

ACS College, Kalamboli,

Tal: Panvel, Dist: Raigad.



SES'S

Shikshan Maharshi Dadasaheb Limaye, Art's, Commerce & Science College, Kalamboli.

Teaching Plan : Academic Year :- 2022-2023

Name of the faculty : Mrs. Jaya .D.Machigar

Class : T.Y.B.Com.

Course : Financial Accounting and Auditing (Paper-VIII)

Subject : Cost Accounting

Department : Commerce

| Sr. No.           | Month | Available Period | Topic / Sub. Topic to be Taught  |
|-------------------|-------|------------------|--|
| <b>SEMESTER-V</b> |       |                  |  |
| 1                 | Aug   | 10               | <b><u>Introduction to Cost Accounting</u></b><br>(a) Objectives and scope of Cost Accounting<br>(b) Cost centres and Cost units<br>(c) Cost classification for stock valuation, Profit measurement,<br>Decision making and control (d) Coding systems<br>(e) Elements of Cost(f) Cost behaviour pattern,<br>Separating the components of semi- variable costs                                    |
| 1                 | Aug   | 02               | <b><u>Material Cost</u></b><br>(i) Procurement procedures—Store procedures and documentation in respect of receipts and issue of stock, Stock verification   |
| 2                 | Sept  | 08               | (ii) Inventory control —Techniques of fixing of minimum, maximum and reorder levels, Economic Order Quantity, ABC classification; Stocktaking and perpetual inventory<br>(iii) Inventory accounting Note- Simple practical problems based on Calculation of EOQ, Raw Material Turnover ratio, Preparation of stock ledger and Valuation of Inventories, based on FIFO and Weighted average cost. |
| 2                 | Sept  | 10               | <b><u>Labour Cost</u></b><br>(i) Attendance and payroll procedures, Overview of statutory requirements, Overtime, Idle time and Incentives<br>(ii) Labour turnover<br>(iii) Utilisation of labour, Direct and indirect labour, Charging of labour cost, Identifying labour hours with  |





|   |     |    |   |
|---|-----|----|---|
|   |     |    | work orders or batches or capital jobs (iv) Efficiency rating procedures<br>(v) Remuneration systems and incentive schemes. Note- Simple practical problems based on Preparation of labour cost statement Remuneration and incentive systems based on Piece work plan, Haley Premium Plan, Rowan system, Gantt's Task   |
| 3 | Oct | 10 | <b><u>Overheads</u></b><br>Functional analysis — Factory, Administration, Selling and Distribution Behavioural analysis — Fixed, Variable, Semi-variable cost Note-Simple practical problems on Departmentalization and apportionment of primary overheads,<br>Computation of overhead rates including Machine overhead rates Basic concepts of treatment of over/under absorption of overheads- Direct Labour method and Prime Cost method |
| 3 | Oct | 06 | <b><u>Classification of Costs and Cost Sheet</u></b><br>Classification of costs, Cost of Sales, Cost Centre, Cost Unit,   |
| 4 | Nov | 04 | Profit Centre and Investment Centre Cost Sheet, Total Costs and Unit Costs,<br>Different Costs for different purpose Note- Simple practical problems on preparation of cost sheet   |
| 4 | Nov | 08 | <b><u>Reconciliation of cost and financial accounts</u></b><br>Practical problems based on Reconciliation of cost and   |
| 5 | Dec | 02 | Financial accounts.   |
| 5 | Dec | 10 | <b><u>Revision</u></b>  |


### **SEMESTER-VI**


|   |     |    |  |
|---|-----|----|--|
| 8 | Jan | 10 | <b><u>Cost Control Accounts</u></b><br>Advantages and Disadvantages Cost Control Accounts, Principal Accounts, Subsidiary Accounts to be maintained Note- Simple practical problems on preparation of cost control accounts                                      |
| 9 | Feb | 10 | <b><u>Contract Costing</u></b><br>Progress payments, Retention money, Contract accounts, Accounting for material, Accounting for Tax deducted at source by the contractee, Accounting for plant used in a contract, treatment of profit on incomplete contracts. |



|    |       |    |   |
|----|-------|----|---|
|    |       |    | Contract profit and Balance sheet entries. Excluding Escalation clause Note- Simple practical problems  |
| 10 | Feb   | 06 | <b><u>Process Costing</u></b><br>Process loss, Abnormal Gains and Losses, Joint products and by-products. Excluding Equivalent units, Inter-process profit Note- Simple Practical problems  |
| 11 | Mar   | 04 | Process Costing and joint and by-products   |
| 11 | Mar   | 10 | <b><u>Introduction to Marginal Costing</u></b><br>Marginal costing meaning, applications, advantages, limitations Contribution, Breakeven analysis, Margin of safety and profit volume graph.<br>Note-Simple Practical problems based on Marginal Costing excluding decision making |
| 11 | Mar   | 04 | <b><u>Introduction to Standard Costing</u></b><br>Various types of standards, Setting of standards, Basic concepts of Material and Labour variance analysis. Note-Simple Practical problems based on Material and labour variances excluding sub-variances                          |
| 12 | April | 06 |   |
| 13 | April | 10 | <b><u>Some Emerging concepts of Cost accounting</u></b><br>Target Costing Life cycle Costing Benchmarking ABC Costing Note- No practical problems   |
| 13 | April |    |   |

  
Subject Teacher

  
Head of The Department  
**Head**  
Department of Commerce  
S. M. D. L. College, Kalamboli.

  
Principal  
**PRINCIPAL**  
SES's S. M. Dadasaheb Limaye  
ACS College, Koli, Tal : Panvel, Dist : Raigad.



Name of Faculty: Mrs. J.D. Machigar

Class – T.y.b.com

Sub- Financial accounting and auditing paper VII &amp; IX

Department: Commerce

| Sr.no      | month | Available period | Topic/sub to be taught   |
|------------|-------|------------------|--|
| Semester v |       |                  |  |
| 1.         | June  | 12               | <p><b>1.</b></p> <p><b>Preparation of Final Accounts of Companies</b></p> <p>Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement)</p> <p>Preparation of financial statements as per Companies Act. (excluding cash flow statement)</p> <p>AS 1 in relation to final accounts of companies (disclosure of accounting policies)</p> <p>Adjustment for –</p> <ol style="list-style-type: none"> <li>1. Closing Stock</li> <li>2. Depreciation</li> <li>3. Outstanding expenses and income</li> <li>4. Prepaid expenses and Pre received income</li> <li>5. Proposed Dividend and Unclaimed Dividend</li> <li>6. Provision for Tax and Advance Tax</li> <li>7. Bill of exchange ( Endorsement, Honor, Dishonors)</li> <li>8. Capital Expenditure included in Revenue expenditure and vice versa eg- purchase of furniture included in purchases</li> <li>9. Unrecorded Sales and Purchases</li> <li>10. Good sold on sale or return basis</li> <li>11. Managerial remuneration on Net Profit before tax</li> <li>12. Transfer to Reserves</li> <li>13. Bad debt and Provision for bad debts</li> <li>14. Calls in Arrears</li> </ol> |



|    |           |    |  |
|----|-----------|----|--|
|    |           |    | <p>15. Loss by fire ( Partly and fully insured goods)</p> <p>16. Goods distributed as free samples.</p> <p>17. Any other adjustments as per the prevailing accounting</p>  |
| 2. | July      | 9  | <p><b>2. Internal Reconstruction</b></p> <p>Need for reconstruction and company law provisions<br/>Distinction between internal and external reconstructions.<br/>Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant provisions and accounting treatment for same.</p>  |
| 3. | August    | 9  | <p><b>3. Buy Back of Shares</b></p> <p>Company Law / Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions)<br/>Compliance of conditions including sources, maximum limits and debt equity ratio. Cancellation of Shares Bought back(Excluding Buy Back of minority shareholding)</p>   |
| 4. | September | 12 | <p><b>4. Investment Accounting (w.r.t. Accounting Standard-13)</b></p> <p>For shares (variable income bearing securities)<br/>For debentures/Preference. shares (fixed income bearing securities)<br/>Accounting for transactions of purchase and sale of investments with ex and cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage).<br/>Columnar format for investment account</p> |
| 5. | October   | 7  | <p><b>5. Ethical Behavior and implication of accountants</b></p> <p>Introduction, meaning of ethical behavior financial reports-what is the link between law, corporate governance, corporate social responsibility and ethics?</p> <p>What does the accounting profession mean by the ethical behavior? Implication of ethical values for the principles versus rule based approaches to accounting standards. The</p>                                      |



|     |          |    |  |
|-----|----------|----|--|
| 9.  | February | 12 | <b>4 . Underwriting of Shares &amp; Debentures</b><br>Meaning of liquidation or winding up<br>Preferential payments<br>Overriding preferential payments<br>Preparation of statement of affairs, deficit / surplus account<br>Liquidator's final statement of account |
| 10. | March    | 7  | <b>5 . Accounting for Limited Liability Partnership</b><br>Statutory Provisions<br>Conversion of partnership firm into LLP<br>Final Accounts   |

*Dachigao*

Subject Teacher

*Dachigao*

head of the department

**Head**

Department of Commerce  
 S. M. D. L. College, Kalamboli.

*Le Shamle*

principal

**PRINCIPAL**

SES's S. M. Dadasahab Limaye  
 ACS College, Kalamboli,  
 Tal : Panvel, Dist : Raigad.



**SES's**  
**Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.**  
**Teaching Plan: Academic Year --: 2022-23**  
**Name of the Faculty:- Commerce**  
**Class: - T.Y.B. Com - Sem. Vth & VIth**  
**Sub:- Direct and Indirect Taxes**  
**Department: Commrece**

| Sr.No.               | Month      | Available Period | Topic/Sub Topic to be Taught   |
|----------------------|------------|------------------|--|
| <b>SEMESTER - V</b>  |            |                  |  |
| 1.                   | June -2022 | 12               | <b>Basic Terms</b><br>Assesse, Assessment, Assessment Year, Annual value, Business, Capital Assets, Income, Person, Previous Year, Transfer  |
| 2.                   | July-2022  | 12               | <b>Scope of Total Income &amp; Residential Status</b><br>Scope of Total Income (S: 5)<br>Residential Status (S: 6) for individual assessee   |
| 3.                   | Aug.-2022  | 12               | <b>Heads of Income (S: 14)</b><br><ol style="list-style-type: none"> <li>1. Salary (S: 15 to 17)</li> <li>2. Income from House Properties (S: 22 to 27)</li> <li>3. Profit and Gain from Business (S:28, 30, 31, 32, 35, 35D, 36, 37, 40, 40A 43B.</li> <li>4. Capital Gains (S: 45, 48, 49, 50, 54, 54 EC) restricted to computation of Capital gain on transfer of residential house property only</li> <li>5. Income from Other Sources (S: 56 to S: 59) Exclusions from Total Income (S: 10)</li> <li>6. Exclusion related to specified heads to be covered with relevant head.eg. Salary, Business Income, Capital Gain, Income from Other Sources</li> </ol> |
| 4.                   | Sept. 2022 | 12               | <b>Deduction from Total Income</b><br>S 80 A, S 80C, 80CCC, 80D, 80DD, 80E, 80 U, 80 TTA   |
| 5.                   | Oct.2022   | 12               | <b>Computation of Total Income for Individual</b>  |
| 6.                   | Nov.2022   | -----            | -----  |
| <b>SEMESTER - VI</b> |            |                  |  |
| 1                    | Dec.2022   | 04               | What is GST<br>Need for GST<br>Dual GST Model<br>Definitions   |



|   |            |    |  |
|---|------------|----|--|
|   |            |    | Section 2(17) Business<br>Section 2(13) Consideration<br>Section 2(45) Electronic Commerce Operator<br>Section 2(52) Goods<br>Section 2(56) India<br>Section 2 (78) Non taxable Supply<br>Section 2(84) Person<br>Section 2(90) Principal Supply<br>Section 2(93) Recipient<br>Section 2(98) Reverse charge<br>Section 2(102) Services<br>Section 2(105) Supplier<br>Section 2(107) Taxable Person<br>Section 2(108) Taxable Supply<br>Goods & Services Tax Network (GSTN) |
| 2 | Dec.2022   | 08 | <b>Levy and Collection of Tax</b><br>Scope of Supply<br>Nontaxable Supplies<br>Composite and Mixed Supplies<br>Composition Levy<br>Levy and Collection of tax<br>Exemption from tax  |
|   | Jan.2023   | 06 |  |
| 3 | Jan.2023   | 06 | <b>Time, Place and Value of Supply</b><br>Time of Supply<br><br>Place of Supply<br>Value of Supply   |
| 4 | Feb.2023   | 12 | <b>Input Tax Credit &amp; Payment of Tax</b><br>Persons not liable registration<br>Compulsory registration<br>Procedure for registration<br>Deemed registration<br>Cancellation of registration  |
| 5 | March.2023 | 12 | <b>Registration under GST Law</b><br>Persons not liable registration<br>Compulsory registration<br>Procedure for registration<br>Deemed registration<br>Cancellation of registration   |

*B. S.*

Subject Teacher

*D. S. J.*

Head

Department of Commerce  
**Head of the Department**  
 S. M. D. L. College, Kalamboli.

*H. S. M.*

Principal

**PRINCIPAL**  
 SES's S. M. Dadasaheb Limaye  
 ACS College, Kalamboli,  
 Tal : Panvel, Dist : Raigad



Teaching Plan : Academic Year -: 2022 to 2023

Name of the Faculty : - Dr. Arote B.M

Class :- T.Y.B.Com

Sub :-Commerce:Vth &amp;VIth Sem.

Department :Commrece

| Sr. No.             | Month      | Available Period | Topic/Sub Topic to be Taught   |
|---------------------|------------|------------------|--|
| <b>SEMESTER - V</b> |            |                  |  |
| 1.                  | June.2022  | 12               | <b>Introduction to Marketing</b><br>Marketing, Concept, Features, Importance, Functions, Evolution, Strategic v/s Traditional Marketing • Marketing Research - Concept, Features, Process Marketing Information System-Concept, Components Data Mining- Concept, Importance • Consumer Behaviour- Concept, Factors influencing Consumer Behaviour Market Segmentation- Concept, Benefits, Bases of market segmentation Customer Relationship Management- Concept, Techniques Market Targeting- Concept, Five patterns of Target market Selection   |
| 2.                  | July.2022  | 12               | <b>Marketing Decisions: I</b><br>Marketing Mix- Concept, Product- Product Decision Areas Product Life Cycle- Concept, Managing stages of PLC Branding- Concept, Components Brand Equity- Concept, Factors influencing Brand Equity • Packaging- Concept, Essentials of a good package Product Positioning- Concept, Strategies of Product Positioning Service Positioning- Importance & Challenges • Pricing- Concept, Objectives, Factors influencing Pricing, Pricing Strategies   |
| 3.                  | Aug. 2022  | 12               | <b>Marketing Decisions:-II</b><br>Physical Distribution- Concept, Factors influencing Physical Distribution, Marketing Channels (Traditional & Contemporary Channels) Supply Chain Management-Concept, Components of SCM • Promotion- Concept, Importance, Elements of Promotion mix Integrated Marketing Communication (IMC)- Concept, Scope, Importance • Sales Management- Concept, Components, Emerging trends in selling Personal Selling- Concept, Process of personal selling, Skill Sets required for Effective Selling  |
| 4.                  | Sept. 2022 | 12               | <b>Key Marketing Dimensions</b><br>Marketing Ethics: Concept, Unethical practices in marketing, General role of consumer organizations Competitive Strategies for Market Leader, Market Challenger, Market Follower and Market Nicher Marketing Ethics: • Rural Marketing- Concept, Features of Indian Rural Market, Strategies for Effective Rural Marketing Digital Marketing- Concept, trends in Digital Marketing Green Marketing- concept, importance • Challenges faced by Marketing Managers in 21st Century Careers in Marketing – Skill sets required for effective marketing Factors contributing to Success of brands in India with suitable examples, Reasons for failure of brands in India with suitable examples. |
|                     | Oct.2022   | -----            | .....  |
| 1                   | Nov.2022   | 12               | <b>Human Resource Management</b><br>Human Resource Management – Concept, Functions, Importance, Traditional v/s Strategic Human Resource Management • Human Resource Planning- Concept Steps in Human Resource Planning Job  |





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|---|------------|----|--|
|   |            |    | Analysis-Concept, Components,  |
| 2 | Dec. 2022  | 06 | Job design- Concept, Techniques • Recruitment- Concept, Sources of Recruitment Selection - Concept, process, Techniques of E.selection,  |
|   | Dec. 2022  | 06 | <b>Human Resource Development</b><br>Human Resource Development- Concept, functions Training- Concept, Process of identifying training and development needs, Methods of Training & Development (Apprenticeship, understudy, job rotation, vestibule training, case study, role playing, sensitivity training, In-basket, management games)  |
|   | Jan.2023   | 06 | Evaluating training effectiveness- Concept, Methods • Performance Appraisal- Concept, Benefits, Limitations, Methods Potential Appraisal- Concept, Importance • Career Planning- Concept, Importance Succession Planning- Concept, Need Mentoring- Concept, Importance Counseling- Concept, Techniques. 3 Human Relations  |
| 3 | Jan.2023   | 06 | <b>Human Relations</b><br>Human Relations- Concept, Significance Leadership -Concept, Transactional & Transformational Leadership Motivation- Concept, Theories of Motivation, (Maslow's Need Hierarchy Theory, Vroom's Expectancy Theory, McGregor's Theory X and Theory Y, Pink's Theory of Motivation)  |
|   | Feb.2023   | 06 | Employees Morale- Concept, Factors affecting Morale, Measurement of Employees Morale Emotional Quotient and Spiritual Quotient- Concept, Factors affecting EQ & SQ • Employee Grievance- Causes, Procedure for Grievance redressed Employee welfare measures and Health & Safety Measures.   |
| 4 | Feb.2023   | 04 | <b>Trends in Human Resource Management:</b><br>HR in changing environment: Competencies- concept, classification Learning organizations- Concept, Creating an innovative organization, Innovation culture- Concept, Need, Managerial role.   |
|   | March 2023 | 12 | Trends in Human Resource Management,<br>Employee Engagement- Concept, Types Human Resource Information System (HRIS) - Concept, Importance, Changing patterns of employment • Challenges in Human Resource Management: Employee Empowerment, Workforce Diversity, Attrition, Downsizing, Employee Absenteeism, Work life Balance, Sexual Harassment at work place, Domestic and International HR Practices, Millennial (Gen Y)Competency Mapping |

*[Signature]*

Subject Teacher

*[Signature]*  
Head

Department of Commerce  
Head of the Department  
S. M. D. L. College, Kalamboi.

*[Signature]*  
Principal



PRINCIPAL  
SES's S. M. D. L. College Limaye  
ACS College, Kalamboi,  
Tal. Panvel, Dist. Raigad

SES's

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli, Navi Mumbai.

Teaching Plan : Academic Year -: 2022 to 2023

Name of the Faculty : - Dr. Arote B.M

Class :- T.Y.B.Com

Sub :-Export Marketing:Vth &VIth Sem.

Department :Commrece

| Sr. No.             | Month      | Available Period | Topic/Sub Topic to be Taught   |
|---------------------|------------|------------------|--|
| <b>SEMESTER - V</b> |            |                  |  |
| 1.                  | June.2022  | 12               | <b>Introduction to Export Marketing</b><br>a) Concept and features of Export Marketing; Importance of Exports for a Nation and a Firm; Distinction between Domestic Marketing and Export Marketing b) Factors influencing Export Marketing; Risks involved in Export Marketing; Problems of India's Export Sector c) Major merchandise/commodities exports of India (since 2015); Services exports of India (since 2015); Region-wise India's Export Trade (since 2015)  |
| 2.                  | July.2022  | 12               | <b>Global Framework for Export Marketing</b><br>a) Trade barriers; Types of Tariff Barriers and Non-Tariff barriers; Distinction between Tariff and Non-Tariff barriers b) Major Economic Groupings of the World; Positive and Negative Impact of Regional Economic Groupings; Agreements of World Trade Organisation (WTO) c) Need for Overseas Market Research; Market Selection Process, Determinants of Foreign Market Selection   |
| 3.                  | Aug. 2022  | 12               | <b>India's Foreign Trade Policy</b><br>a) Foreign Trade Policy (FTP) 2015-20 - Highlights and Implications, Export Trade facilitations and ease of doing business as per the new FTP b) Role of Directorate General of Foreign Trade (DGFT), Negative list of Exports, Deemed Exports c) Benefits to Status Holders & Towns of Excellence; Common benefits for EHTP, BTP and STP; Benefits enjoyed by (IIAs) Integrated Industrial Areas(SEZ), EOU, AEZ .  |
| 4.                  | Sept. 2022 | 13               | <b>Export Incentives and Assistance</b><br>a. Financial Incentives available to Indian Exporters - Marketing Development Assistance (MDA), Market Access Initiative (MAI), Assistance to States for Infrastructure Development for Exports (ASIDE), Industrial Raw Material Assistance Centre(IRMAC), b. Institutional Assistance to Indian Exporters - Federation of Indian Export Organisations (FIEO), India Trade Promotion Organisation (ITPO), The Federation of Indian Chambers of Commerce and Industry (FICCI), Export Promotion Councils (EPCs) & Commodity Boards (CBs), Indian Institute of Foreign Trade (IIFT), Indian Institute of Packaging (IIP) c. Schemes - Export Promotion Capital Goods (EPCG) Scheme, Duty Exemption and Remission Schemes, Export Advance Authorisation Scheme; Duty Drawback (DBK); IGST Refund for Exporters |
|                     | Oct.2022   | -----            | .....  |
| 1                   | Nov.2022   | 12               | <b>Product Planning and Pricing Decisions for Export Marketing</b><br>a) Planning for Export Marketing with regards to Product, Branding, Packaging b) Need for Labelling and Marking in Exports, Factors determining Export Price; Objectives of Export Pricing c) International Commercial (INCO)  |
|                     | Dec. 2022  | 04               | Terms; Export Pricing Quotations – Free on Board (FOB), Cost Insurance and Freight (CIF) and Cost and Freight (C&F); Problems on FOB quotation   |



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|---|-----------------------------|--------------|--|
| 2 | Dec. 2022<br><br>Jan. 2023  | 08<br><br>02 | <p><b>Export Distribution and Promotion</b></p> <p>a) Factors influencing Distribution Channels; Direct and Indirect Exporting Channels; Distinction between Direct and Indirect Exporting Channels b) Components of Logistics in Export marketing; Selection criteria of Modes of Transport; Need for Insurance in Export Marketing c) Sales Promotion Techniques used in Export Marketing; Importance of Trade Fairs and Exhibitions; Benefits of Personal Selling; Essentials of Advertising in Export Marketing;</p>   |
| 3 | Jan. 2023<br><br>Feb. 2023  | 10<br><br>08 | <p><b>Export Finance</b></p> <p>a) Methods of Payment In export marketing; Procedure to open Letter of Credit, Types and Benefits of Countertrade b) Features of Pre-shipment and Post-shipment finance; Procedure to obtain Export Finance; Distinction between Pre-shipment Finance and Post Shipment Finance. c) Role of Commercial Banks, EXIM Bank, SIDBI in financing exporters; Role of ECGC</p>  |
| 4 | Feb. 2023<br><br>March 2023 | 02<br><br>12 | <p><b>Export Procedure and Documentation</b></p> <p>a. Registration with different authorities; Pre-shipment Procedure involved in Exports; Procedure of Quality Control and Pre-shipment Inspection; b. Shipping and Custom Stage Formalities; Role of Clearing &amp; Forwarding Agent; Post-shipment Procedure for Realisation of Export Proceeds;</p> <p>Procedure of Export under Bond and Letter of Undertaking. (LUT) c. Importance of - Commercial Invoice cum Packing list, Bill of Lading/ Airway Bill, Shipping Bill/Bill of Export, Consular Invoice, Certificate of Origin</p> |

*Bus*

Subject Teacher

*Dachyan*

Head of the Department

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*H. Karmale*

Principal

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SES's S. M. D. L. College, Kalamboli  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad.



NAME OF FACULTY- SEEMA RAWAT

CLASS- FYBCOM

SUBJECT- BUSINESS COMMUNICATION

DEPARTMENT- COMMERCE

| Sr. No.           | Month  | Available Period | Topic / Subject to be taught   |
|-------------------|--------|------------------|--|
| <b>Semester I</b> |        |                  |  |
| 1                 | July   | 12               | <p><b>Unit 1: Theory of Communication</b></p> <p><b>Concept of Communication</b><br/>Meaning, Definition, Process, Need, Feedback<br/>Emergence of Communication as a key concept in the Corporate and Global world Impact of technological advancements on Communication</p> <p><b>Channels and Objectives of Communication</b><br/><b>Channels</b>-- Formal and Informal—Vertical, Horizontal, Diagonal, Grapevine</p> <p><b>Objectives of Communication</b><br/>Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Morale of Employees (A brief introduction to these objectives to be given)</p> <p><b>Problems in Communication</b><br/><b>Barriers to Communication</b><br/>Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers<br/>Ways to Overcome these Barriers</p> <p>Tutorials</p> |
| 2                 | August | 12               | <p><b>Listening</b><br/>Importance of Listening Skills<br/>Cultivating good Listening Skills</p> <p><b>Introduction to Business Ethics</b></p> <ul style="list-style-type: none"> <li>• Concept and Interpretation</li> <li>• Importance of Business Ethics</li> <li>• Personal Integrity at the workplace</li> <li>• Business Ethics and media</li> <li>• Computer Ethics</li> <li>• Corporate Social Responsibility</li> </ul>   |
|                   |        |                  | <p>Unit 2: Business Correspondence</p> <p><b>1. Theory of Business Letter Writing</b><br/>Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block.</p>  |

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|---|-----------|----|---|
| 3 | September | 12 | <p>Principles of Effective Letter Writing<br/>Principles of effective Email Writing</p> <p><b>2. Personnel Correspondence:</b><br/>Statement of Purpose<br/>Job Application Letter and Resume<br/>Letter of Acceptance of Job Offer, Letter of Resignation<br/>[Letter of Appointment, Promotion and Termination,<br/>Letter of Recommendation (to be taught but not to be tested in the examination)]</p> <p>Tutorials</p> |
| 4 | October   | 6  | <p>Unit 3: Language and Writing Skills</p> <p><b>1. Commercial Terms used in Business Communication</b><br/><b>2. Paragraph Writing</b><br/>Developing an idea, using appropriate linking devices, etc<br/>Cohesion and Coherence, self-editing, etc [Interpretation of technical data, Composition on a given situation, a short informal report etc.]</p> <p>Tutorials</p>  |

#### Semester II

|   |          |    |  |
|---|----------|----|--|
| 5 | November | 12 | <p><b>Unit 1: Presentation Skills</b><br/><b>1. Presentations</b><br/>Principles of Effective Presentation Effective use of OHP<br/>Effective use of Transparencies<br/>How to make a Power-Point Presentation</p> <p><b>Unit 2: Group Communication</b><br/><b>1. Interviews Group</b><br/>Discussion Preparing for an Interview<br/>Types of interviews – Selection, Appraisal, Grievance, Exit</p> <p>Tutorials</p> |
|   |          |    | <p><b>2. Meetings</b><br/>Need and Importance of Meetings, Conduct of Meeting and Group Dynamics<br/>Role of the Chairperson, Role of the Participants Drafting of Notice, Agenda and Resolutions</p>  |
| 6 | December | 6  | <p><b>3. Conference</b><br/>Meaning and Importance of Conference<br/>Organizing a Conference<br/>Modern Methods: Video and Tele – Conferencing</p> <p><b>4. Public Relations</b></p>   |

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|---|----------|----|--|
|   |          |    | <p>Meaning<br/>         Functions of PR Department<br/>         External and Internal Measures of PR</p> <p>Tutorials</p> <p>Unit 3: <b>Business Correspondence</b><br/>         1. Trade Letters – 10 Order, Credit and Status Enquiry, Collection<br/>         Only following to be taught in detail:- Letters of Inquiry<br/>         Letters of Complaints, Claims, Adjustments Sales Letters, promotional leaflets and fliers Consumer Grievance Letters under Right to Information (RTI) Act</p> <p>Unit 4: <b>Language and Writing Skills</b><br/>         1. Reports<br/>         Parts, Types<br/>         Feasibility Reports, Investigative Reports<br/>         2. Summarisation<br/>         Identification of main and supporting/sub points<br/>         Presenting these in a cohesive manner<br/>         Revision<br/>         Tutorials</p> |
| 7 | January  | 10 |  |
| 8 | February | 10 | Revision<br>Tutorials  |
| 9 | March    | 12 | Revision   |

*Sansal.*

Subject teacher

*Sharma*

Principal



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Teaching Plan: Academic Year -2022-23  
Name of the Faculty: - Mrs.Prajakti C. Patil  
Class: - F.Y.B.Com  
Sub: - Business Economics I&II  
Department: Commerce

| Sr. No.             | Month | Available Period | Topic/Sub Topic to be Taught  |
|---------------------|-------|------------------|---|
| <b>SEMESTER - I</b> |       |                  |   |
| 1                   | Aug   | 12               | <b>Introduction Scope and Importance of Business Economics</b> - basic tools- Opportunity Cost principle- Incremental and Marginal Concepts. Basic economic relations - functional relations: equations- Total, Average and Marginal relations- use of Marginal analysis in decision making.<br><br>The basics of market demand, market supply and equilibrium price- shifts in the demand and supply curves and equilibrium  |
| 2                   | Sept  | 12               | <b>Demand Analysis</b><br><br><b>Demand Function</b> - nature of demand curve under different markets, meaning, significance, types and measurement of elasticity of demand (Price, income, cross and promotional)- relationship between elasticity of demand and revenue concepts<br><br><b>Demand estimation and forecasting:</b> Meaning and significance - methods of demand estimation - survey and statistical methods (numerical illustrations on trend analysis and simple linear regression) |
| 3                   | Oct   | 12               | <b>Supply and Production Decisions</b><br><br><b>Production function:</b> short run analysis with Law of Variable Proportions- Production function with two variable inputs isoquants, ridge lines and least cost combination of inputs. Long run production function and Laws of Returns to Scale - expansion path. Economies and diseconomies of Scale and economies of scope   |



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| 4  | Nov. | 12 | <p style="text-align: center;"><b>SEMESTER II</b></p> <p><b>Cost of Production</b></p> <p><b>Cost concepts:</b> Accounting cost and economic cost, implicit and explicit cost, social and private cost, historical cost and replacement cost, sunk cost and incremental cost - fixed and variable cost - total, average and marginal cost - Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed)</p> <p><b>Extensions of cost analysis:</b> cost reduction through experience - LAC and Learning curve - Break even analysis (with business applications)</p>                  |
| 6. | Dec. | 12 | <p><b>Market structure: Perfect competition and Monopoly</b></p> <p>Perfect competition and Monopoly models as two extreme cases - profit maximization and the competitive firm's supply curve - Short run and long run equilibrium of a firm and of industry - monopoly - Sources of monopoly power</p> <p>- short run and long- run equilibrium of a firm under Monopoly</p>   |
| 7. | Jan  | 06 | <p><b>Pricing and Output Decisions under Imperfect Competition</b></p> <p><b>Monopolistic competition:</b> competitive and monopolistic elements of monopolistic competition - equilibrium of a firm under monopolistic competition, monopolistic competition verses perfect competition- excess capacity and inefficiency - debate over role of advertising (topics to be taught using case studies from real life examples)</p> <p><b>Oligopolistic markets:</b> key attributes of oligopoly - Collusive and non-collusive oligopoly market - Price rigidity - Cartels and price leadership models (with practical examples)</p> |
| 8. | Feb  | 06 | <p><b>Pricing Practices</b></p> <p><b>Cost oriented pricing methods:</b> cost – plus (full cost) pricing, marginal cost pricing, Mark up pricing, discriminating pricing,</p>  |





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|    |       |    | multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)   |
| 9. | March | 06 | <b>Evaluating Capital Projects</b><br>Meaning and importance of capital budgeting- steps in capital budgeting - +Techniques of Investment appraisal: Payback Period Method, Net Present Value Method, and Internal Rate of Return Method (with numerical examples) |
|    | April | 06 |  |

*Btil*

Subject Teacher

*Dahyan*

Head of the Department  
**Head**

Department of Commerce  
S. M. D. L. College, Kalamboli.

*PP Mahajan*  
**PRINCIPAL**

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Tal : Panvel, Dist : Raigad.



Shikashan Maharishi Dadasaheb Limaye, Arts, Commerce and Science  
College, Kalamboli.

Teaching Plan: Academic Year -2022-23

Name of the Faculty: - Mrs.Prajakti C. Patil

Class :- F.Y.B.Com

Sub: Foundation Course

Department : Commerce

| Sr. No.             | Month | Available Period | Topic/Sub Topic to be Taught   |
|---------------------|-------|------------------|--|
| <b>SEMESTER - I</b> |       |                  |  |
| 1.                  | Aug   | 12               | <b>Overview of Indian Society</b><br>Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference    |
| 2.                  | Sept  | 12               | <b>Concept of Disparity- 1</b><br>Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violence against women, female feticide (declining sex ratio), and portrayal of women in media; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities |
| 3.                  | Oct.  | 12               | <b>Concept of Disparity-2</b><br>Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences   |
| 4.                  | Nov.  | 12               | <b>The Indian Constitution</b><br>Philosophy of the Constitution as set out in the Preamble; The structure of the  |



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|                      |       |    | Constitution-the Preamble, Main Body and Schedules; Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution   |
|                      |       |    | <b>SEMESTER - II</b>   |
| 5.                   | Dec.  | 12 | <p><b>Significant Aspects of Political Processes</b></p> <p>The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics</p>  |
| <b>SEMESTER - II</b> |       |    |  |
| 6.                   | Jan.  | 12 | <p><b>Globalization and Indian Society</b></p> <p>Understanding the concepts of liberalization, privatization and globalization; Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry: changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.</p> |
| 7.                   | Feb.  | 12 | <p><b>Human Rights</b></p> <p>Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights; Human Rights constituents with special reference to</p> <p>Fundamental Rights stated in the Constitution</p>  |
| 8.                   | March | 12 | <p><b>Ecology</b></p> <p>Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life; Sustainable development- concept and components, poverty and environment</p>   |
| 9.                   | March | 12 | <p><b>Understanding Stress and Conflict</b></p> <p>Causes of stress and conflict in individuals and society; Agents of socialization and the role played by them in developing the</p>   |



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|     |       |    | individual; Significance of values, ethics and prejudices in developing the individual; Stereotyping and prejudice as significant factors in causing conflicts in society. Aggression and violence as the public expression of conflict   |
| 10. | April | 12 | <p><b>Managing Stress and Conflict in Contemporary Society</b></p> <p>Types of conflicts and use of coping mechanisms for managing individual stress; Maslow's theory of self-actualization; Different methods of responding to conflicts in society; Conflict-resolution and efforts towards building peace and harmony in society</p> |

*Lati*

Subject Teacher

*Deshraj*

Head of the Department

**Head**

Department **Head** Commerce

Department of Commerce

S. M. D. L. College, Kalamboli.

*S. M. D. L.*

Principal  
**ICPRINCIPAL**

SES's S. M. Dadasaheb Limaye

ACS College, Kalamboli,

Tal : Panvel, Dist : Raigad.



| Sr. No.             | Month      | Available Period | Topic/Sub Topic to be Taught   |
|---------------------|------------|------------------|--|
| <b>SEMESTER - I</b> |            |                  |  |
| 1.                  | Aug.2022   | 06               | <b>Shares and Mutual Funds</b><br>Shares: Concept of share, face value, market value, dividend, equity shares, preferential shares, bonus shares. Simple examples. • Mutual Funds: Simple problems on calculation of Net income after considering entry load, dividend, change in Net Asset Value (N.A.V.) and exit load. Averaging of price under the Systematic Investment Plan (S.I.P.)   |
|                     | Aug.2022   | 06               | <b>Permutation, Combination and Linear Programming</b><br>Problems Permutation and Combination: Factorial Notation, Fundamental principle of counting, Permutation as arrangement, Simple examples, combination as selection, Simple examples, Relation between n Crandn Pr Examples on commercial application of permutation and combination • Linear Programming Problem: Sketching of graphs of (i) linear equation $Ax + By + C = 0$ (ii) linear inequalities. Mathematical Formulation of Linear Programming Problems upto 3 variables. Solution of Linear Programming Problems using graphical method up to two variables. |
| 2.                  | Sept. 2022 | 06               | <b>Summarization Measures</b><br>Measures of Central Tendencies: Definition of Average, Types of Averages: Arithmetic Mean, Median, and Mode for grouped as well as ungrouped data. Quartiles, Deciles and Percentiles. Using Ogive locate median and Quartiles. Using Histogram locate mode. Combined and Weighted mean. • Measures of Dispersions: Concept and idea of dispersion. Various measures Range, Quartile Deviation, Mean Deviation, Standard Deviation, Variance, Combined Variance.  |
|                     | Sept. 2022 | 07               | <b>Elementary Probability Theory</b><br>Probability Theory: Concept of random experiment/trial and possible outcomes; Sample Space and Discrete Sample Space; Events their types, Algebra of Events, Mutually Exclusive and Exhaustive Events, Complimentary events. Classical definition of Probability, Addition theorem (without proof), conditional probability. Independence of Events: $P(A \cap B) = P(A)P(B)$ . Simple examples. • Random Variable: Probability distribution of a discrete random variable; Expectation and Variance of random variable, simple examples on probability distributions.                   |
| 3.                  | Oct.2022   | 12               | <b>Decision Theory Decision making situation:</b><br>Decision maker, Courses of Action, States of Nature, Pay-off and Pay-off matrix; Decision making under uncertainty, Maximin, Maximax, Minimax regret and Laplace criteria; simple examples to find optimum decision.  |
| 4.                  | Nov.2022   | 12               | Formulation of Payoff Matrix. Decision making under Risk, Expected Monetary Value (EMV); Decision Tree; Simple Examples based on EMV. Expected Opportunity Loss (EOL), simple examples based on EOL.   |
|                     | Dec. 2022  |                  | .....  |

## SEM:II

|    |            |    |  |
|----|------------|----|--|
| 1. | Jan.2023   | 06 | <p><b>Functions, Derivatives and Their Applications: -</b><br/>         Concept of real functions: Constant function, linear function, <math>x^n</math>, <math>e^x</math>, <math>\log x</math>. Demand, Supply, Total Revenue, Average Revenue, Total cost, Average cost and Profit function. Equilibrium Point, Break-even point. Derivative of functions: <math>\clubsuit</math> Derivative as rate measure, Derivative of <math>x^n</math>, <math>e^x</math>, <math>\log x</math>. <math>\clubsuit</math> Rules of derivatives: Scalar multiplication, sum, difference, product, quotient (Statements only), Simple problems. Second order derivatives. <math>\clubsuit</math> Applications: Marginal Cost, Marginal Revenue, Elasticity of Demand. Maxima and Minima for functions in Economics and Commerce. (Examination Questions on this unit should be application oriented only.)</p>                      |
|    | Jan.2023   | 06 | <p><b>Interest and Annuity Interest:</b><br/>         Simple Interest, Compound Interest (Nominal &amp; Effective Rate of Interest), Calculations involving upto 4 time periods. Annuity: Annuity Immediate and its Present value, Future value. Equated Monthly Installments (EMI) using reducing balance method &amp; amortization of loans. Stated Annual Rate &amp; Affective Annual Rate Perp</p>   |
| 2. | Feb.2023   | 06 | <p><b>Bivariate Linear Correlation and Regression Correlation Analysis:</b><br/>         Meaning, Types of Correlation, Determination of Correlation: Scatter diagram, Karl Pearson's method of Correlation Coefficient (excluding Bivariate Frequency Distribution Table) and Spearman's Rank Correlation Coefficient. Regression Analysis: Meaning, Concept of Regression equations, Slope of the Regression Line and its interpretation. Regression Coefficients (excluding Bivariate Frequency Distribution Table), Relationship between Coefficient of Correlation and Regression Coefficients, Finding the equations of Regression lines by method of Least Squares. 4 Time series and Index N</p>   |
| 3. | Feb.2023   | 07 | <p><b>Time series and Index Numbers Time series:</b><br/>         Concepts and components of a time series. Representation of trend by Freehand Curve Method, Estimation of Trend using Moving Average Method and Least Squares Method (Linear Trend only). Estimation of Seasonal Component using Simple Arithmetic Mean for Additive Model only (For Trend free data only). Concept of Forecasting using Least Squares Method. Index Numbers: Concept and usage of Index numbers, Types of Index numbers, Aggregate and Relative Index Numbers, Lasperye's, Paasche's, Dorbisch- Bowley's, Marshall-Edgeworth and Fisher's ideal index numbers, Test of Consistency: Time Reversal Test and Factor Reversal Test. Chain Base Index Nos. Shifting of Base year. Cost of Living Index Numbers, Concept of Real Income, Concept of Wholesale Price Index Number. (Examples on missing values should not be taken)</p> |
| 4. | March 2023 | 12 | <p><b>Elementary Probability Distributions Probability Distributions:</b><br/> <math>\clubsuit</math> Discrete Probability Distribution: Binomial, Poisson (Properties and applications only, no derivations are expected) <math>\clubsuit</math> Continuous Probability distribution: Normal Distribution. (Properties and applications only, no derivations are expected)</p>  |

*Bus*  
 Subject Teacher

*Darshan*  
 Head  
 Head of the Department  
 Department of Commerce  
 S. M. D. L. College, Kalamboli.

*S. M. D. L.*  
 Principal  
 PRINCIPAL  
 SES's S. M. Dadasaheb Limaye  
 ACS College, Kalamboli,  
 Tal: Panvel, Dist: Raigad.



Name of the faculty : Mrs. Jaya .D.Machigar

Class : F.Y.B.Com.

Course : Commerce

Subject : Commerce-I &amp; II

Department : Commerce

| Sr. No.           | Month  | Available Period | Topic / Sub. Topic to be Taught  |
|-------------------|--------|------------------|--|
| <b>SEMESTER-I</b> |        |                  |  |
| 1                 | July   | 07               | <p><b><u>Business Introduction:</u></b><br/>           Concept, Functions, Scope and Significance of business.<br/>           Traditional and Modern Concept of business.<br/>           Objectives of Business: Steps in setting business objectives, classification of business objectives, Reconciliation of Economic and Social Objectives.<br/>           New Trends in Business: Impact of Liberalization, Privatization and Globalization, Strategy alternatives in the changing scenario,<br/>           Restructuring and turnaround strategies</p> |
| 2                 | august | 10               | <p><b><u>Business Environment Introduction:</u></b><br/>           Concept and Importance of business environment,<br/>           Interrelationship between Business and Environment<br/>           Constituents of Business Environment: Internal and External Environment,<br/>           Educational Environment and its impact, International Environment – Current Trends in the World,<br/>           International Trading Environment – WTO and Trading Blocs and their impact on Indian Business.</p>   |
| 3                 | Sep    | 09               | <p><b><u>Project Planning Introduction:</u></b><br/>           Business Planning Process; Concept and importance of Project Planning; Project Report;<br/>           feasibility Study types and its importance Business Unit Promotion: Concept and Stages of Business Unit Promotion, Location – Factors determining location, and</p>   |



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|---|-----|----|---|
| 4 | Oct | 10 | <b><u>Role of Government in Promotion.</u></b><br>Statutory Requirements in Promoting Business<br>Unit:Licensing and Registration procedure, Filling returns and other documents, Other important legal provisions  |
|   | Nov | 06 | <b><u>Entrepreneurship Introduction:</u></b><br>Concept and importance of entrepreneurship,<br>factors Contributing to Growth of Entrepreneurship,<br>Entrepreneurs.  |
| 5 | Dec | 10 | <b><u>Entrepreneur and Manager</u></b><br>Entrepreneur and Intrapreneur The Entrepreneurs:Types of Entrepreneurs,Competencies of an Entrepreneur,Entrepreneurship Training and Development centers in India.Incentives to Entrepreneurs in India.<br>Women Entrepreneurs: Problems and Promotion. <u>Revision</u> |

## SEMESTER-II

|   |       |    |  |
|---|-------|----|--|
| 6 | Jan   | 12 | <b><u>Concept of Services</u></b><br>Introduction:<br>Meaning, Characteristics, Scope and Classification of Services – Importance of service sector in the Indian<br>Marketing Mix Services: Consumer expectations,<br>Services Mix, - Product, Place, Price, Promotion,<br>Process of Services delivery, Physical evidence and people Service Strategies:Market research and Service development cycle, Managing demand and capacity, opportunities and challenges in service sector. |
| 7 | Feb   | 08 | <b><u>Retailing</u></b><br>Introduction:<br>Concept of organized and unorganized retailing ,<br>Trends in retailing, growth of organized retailing in India,<br>Survival strategies for unorganized Retailers Retail   |
| 8 | Mar   | 05 | <b><u>Format: Store format</u></b><br>Non – Store format,<br>Store Planning, design and layout Retail Scenario: Retail Scenario in India and Global context – Prospects and Challenges in India.Mall Management –<br>RetailFranchising. FDI in Retailing, Careers in Retailing   |
| 8 | April | 08 | <b><u>Recent Trends in Service Sector</u></b>  |





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|---|-----|----|---|
|   |     |    | <p>ITES Sector: Concept and scope of BPO, KPO, LPO and ERP. Banking and Insurance Sector: ATM, Debit &amp; Credit Cards, Internet Banking – Opening of Insurance sector for private players, FDI and its impact on Banking and Insurance Sector in India Logistics: Net working – Importance – Challenges</p>   |
| 9 | May | 05 | <p><b><u>E-Commerce</u></b><br/> Introduction:<br/> Meaning, Features, Functions and Scope of E-Commerce- Importance and Limitations of E-Commerce Types of E-Commerce: Basic ideas and Major activities of B2C, B2B, C2C. Present status of E-Commerce in India: Transition to E-Commerce in India, E Transition Challenges for Indian Corporates; on-line Marketing Research.</p> |
|   |     |    |   |

*Shahjan*

Subject Teacher

*Shahjan*

Head of The Department

**Head**

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*A. Mambale*

PRINCIPAL

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SES's

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli, Navi Mumbai.

Teaching Plan: Academic Year -:2022 to 2023

Name of the Faculty: - Dr. Arote B.M

Class:- F.Y.B.Com

Sub :- Accountancy & Financial Management Ist & IInd Sem

Department: Commerce

| Sr. No.             | Month      | Available Period | Topic/Sub Topic to be Taught   |
|---------------------|------------|------------------|--|
| <b>SEMESTER - I</b> |            |                  |  |
| 1                   | Aug. 2022  | 12-              | <b>Accounting standards issued by ICAI and Inventory valuation:</b><br><b>Accounting standards:</b> Concepts, benefits, procedures for issue of accounting standards Various AS: AS – 1: Disclosure of Accounting Policies Purpose, Areas of Policies, Disclosure of Policies, Disclosure of Change in Policies, Illustrations AS-2:Valuationof Inventories (Stock) Meaning, Definition, Applicability, Measurement of Inventory, Disclosure in Final Account, Explanation with Illustrations. AS – 9: Revenue Recognition Meaning and Scope, Transactions excluded, Sale of Goods, Rendering of Services, Effects of Uncertainties, Disclosure, Illustrations: • Inventory Valuation Meaning of inventories Cost for inventory valuation Inventory systems : Periodic Inventory system and Perpetual Inventory System Valuation: Meaning and importance Methods of Stock Valuation as per AS – 2 : FIFO and Weighted Average Method Computation of valuation of inventory as on balance sheet date: If inventory is taken on a date after the balance sheet or before the balance sheet |
| 2                   | Sept. 2022 | 12               | <b>Final Accounts Expenditure:</b><br>Capital, Revenue Receipts: Capital, Revenue Adjustment and Closing Entries Final accounts of Manufacturing concerns (Proprietary Firm)   |
| 3                   | Oct. 2022  | 12-              | <b>Departmental Accounts Meaning Basis of Allocation of Expenses and Incomes/Receipts Inter Departmental Transfer:</b><br>at Cost Price and Invoice Price Stock Reserve Departmental Trading and Profit & Loss Account and Balance Sheet   |
| 4                   | Nov 2022   | 12-              | <b>Accounting for Hire Purchase:</b><br>Meaning Calculation of interest Accounting for hire purchase transactions by asset purchase method based on full cash price Journal entries, ledger accounts and disclosure in balance sheet for hirer and vendor(excluding default, repossession and calculation of cash price)   |
| 5                   | Dec. 2022  |                  | <b>Dec. ....</b>   |



**SEM I & II**

|    |            |    |  |
|----|------------|----|--|
| 1. | Jan.2023   | 06 | <b>Accounting from Incomplete Records:</b><br>Introduction Problems on preparation of final accounts of Proprietary Trading Concern (conversion method)                                |
| 2  | Jan.2023   | 06 | <b>Consignment Accounts:</b><br>Accounting for consignment transactions Valuation of stock Invoicing of goods at higher price(excluding overriding commission, normal/abnormal losses) |
| 3  | Feb.2023   | 06 | <b>Branch Accounts:</b><br>Meaning/ Classification of branch Accounting for Dependent Branch not maintaining full books: Debtors method Stock and debtors method.                      |
| 4  | Feb.2023   | 06 | <b>Fire Insurance Claim</b><br>Computation of Loss of Stock by Fire Ascertainment of Claim as per the Insurance Policy Exclude: Loss of Profit and Consequential Loss                  |
| 5. | March 2023 | 10 | .... Revision  |

*Bus*

**Subject Teacher**

*M. D. Limaye*

**Head of the Department**

**Head**

Department of Commerce  
S. M. D. L. College, Kalamboli.

*H. S. Limaye*

**Principal**

**PRINCIPAL**

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad.



Teaching Plan: Academic Year -2022-23

Name of the Faculty : - Mrs.Prajakti C. Patil

Class: - S.Y.B.Com

Sub:- Business Economics III&IV

Department : Commerce

| Sr. No.               | Month            | Available Period | Topic/Sub Topic to be Taught   |
|-----------------------|------------------|------------------|--|
| <b>SEMESTER - III</b> |                  |                  |  |
| 1.                    | June<br><br>July | 06<br><br>12     | <b>INTRODUCTION</b> <ul style="list-style-type: none"><li>• Macroeconomics: Meaning, Scope and Importance.</li><li>• Circular flow of aggregate income and expenditure and its Importance closed and open economy models</li><li>• The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National Income and Economic Welfare.</li><li>• Trade Cycles: Features and Phases</li></ul> Classical Macroeconomics : Say's law of Markets - Features, Implications and Criticism          |
| 2.                    | Aug.             | 12               | <b>BASIC CONCEPTS OF KEYNESIAN ECONOMICS</b> <ul style="list-style-type: none"><li>• The Principle of Effective Demand: Aggregate Demand and Aggregate Supply</li><li>• Consumption Function: Properties, Assumptions and Implications</li><li>• Investment function and Marginal Efficiency of capital</li><li>• Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift</li></ul> Relevance of Keynesian theory tools to the developing countries<br>Liquidity Preference Theory of Interest |
| 3.                    | Sept.            | 12               | <b>POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS</b><br>The IS-LM model of integration of commodity and money markets<br>Inflation and unemployment: Philips curve  |



SES's

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Teaching Plan: Academic Year -:2022-2023

Name of the Faculty: - Prof. Mrs. Machigar J. D.

Class:- S.Y.B.Com

Sub :-Business Law – III & IV

Department : Commerce

| SR.NO.              | MONTH          | AVAILABLE PERIOD | TOPIC/SUB TOPIC TO BE TOUGHT  |
|---------------------|----------------|------------------|---|
| <b>SEMISTER - I</b> |                |                  |   |
| 1.                  | JUNE<br>2023   | 12               | <b><u>Module - I: Indian Contract Act – 1872 Part –I</u></b> <ul style="list-style-type: none"><li>• Contract -Definition of Contract and Agreement, Essentials of Valid Contract, Classification of Contracts.</li><li>• Offer and Acceptance -Rules of valid offer and acceptance, Counter offer, standing or open offer, distinguish between offer and invitation to offer. Concept of Communication and Revocation of offer and acceptance (sec. 3,5)</li><li>• Capacity to Contract (S. 10-12) -Minor, Unsound Mind, Disqualified Persons.</li><li>• Consideration (S. 2 &amp; 25)- Concept and Importance of consideration, Legal rules of Consideration, Exceptions to the Rule, No Consideration No Contract (Ss. 25) Unlawful Consideration (S 23)</li></ul>                                       |
| 2.                  | JULY<br>2023   | 13               | <b><u>Module - II: Indian Contract Act – 1872 Part –II</u></b> <ul style="list-style-type: none"><li>• Consent (Ss.13, 14-18, 39,53, 55, 66)- Agreements in which consent is not free</li><li>• Coercion, Undue Influence, Misrepresentation Fraud, Mistake.</li><li>• Void Agreements (S. 24-30)- Concept, Void Agreements under Indian Contract Act.</li><li>• Contingent Contract (S. 31), Quasi Contract (S.68-72), Concept of E- Contract&amp; Legal Issues in formation and discharge of E- Contract. Concept of Performance of Contract (S 37)</li><li>• Modes of Discharge of Contract, Remedies on breach of Contract. (73-75)</li></ul>   |
| 3.                  | AUGUST<br>2023 | 14               | <b><u>Module – III : Special Contracts</u></b> <ul style="list-style-type: none"><li>• Law of Indemnity &amp; Guarantee (Ss. 124-125, Ss. 126-129, 132-147) -Concept, Essentials elements of Indemnity and Guarantee, Contract of Indemnity vs. Guarantee, Modes of Discharge of Surety.</li><li>• Law of Bailment (S. 148, 152-154, 162, 172, 178, 178A, 179)- Concept, Essentials of Bailment, Kinds of Bailment, Rights and Duties of Bailor and Bailee</li><li>• Law of Pledge - Concept, Essentials of valid Pledge, Lien -concept, Difference between Pledge and Lien, Rights of Pawnor &amp; Pawnee. ( Ss.173, 174, 177)</li><li>• Law of Agency (Ss. 182-185, 201-209) - Concept, Modes of creation of Agency, Modes of termination of Agency, Rights&amp; Duties of Principal and Agent.</li></ul> |

|                      |               |    |  |
|----------------------|---------------|----|--|
| 4.                   | SEPT.<br>2023 | 10 | <p><b><u>Module – IV : The Sales of Goods Act – 1930</u></b></p> <ul style="list-style-type: none"> <li>• Contract of Sale (S.2) – Concept, Essentials of contract of sale, Distinction between Sale and Agreement to sell (S.4) Distinguish between Sale and Hire Purchase Agreement, Types of Goods, Effects of destruction of Goods. (Ss. 6, 7, 8)</li> <li>• Conditions &amp; Warranties (Ss. 11-25 &amp; 62, 63) – Concept, Distinguish between Conditions and Warranties, Implied Conditions &amp; Warranties, Concept of Doctrine of Caveat Emptor – Exceptions.</li> <li>• Property – Concept, Rules of Transfer of property (Ss. 18-26)</li> <li>• Unpaid Seller (Ss. 45-54, 55 &amp; 56). Concept, Rights of an unpaid seller, Remedies for Breach of contract of Sale (Ss. 55-61), Auction sale – Concept, Legal Provisions. (S. 64)</li> </ul>   |
| 5.                   | OCT.<br>2023  | 08 | <p><b><u>Module – V : The Negotiable Instruments (Amended Act 2015)</u></b></p> <ul style="list-style-type: none"> <li>• Negotiable Instruments – Concept (S13), Characteristics, Classification of Negotiable Instruments (Ss. 11, 12, 1720, 42, 43, 104, 134, 135) Maturity of Instruments.</li> <li>• Promissory Note and Bill of Exchange (Ss. 4, 5, 108116)- Concept, Essentials of Promissory Note, Bill of Exchange (Ss. 4,5), Essential features of promissory note and Bill of exchange, Kinds Promissory note and Bill of exchange, Cheque (S.6)- Concept, Types &amp; Crossing of Cheque – Concept &amp; Penalties (Ss. 138, 139,142)</li> <li>• Miscellaneous Provisions (S. 8-10, 22, 99-102, 134-137) – Parties to Negotiable instruments Holder, Holder in due Course, Rights &amp; Privileges of Holder in due course, Payment in due course, Nothing &amp; Protest (99-104A)</li> </ul> |
| <b>SEMISTER - II</b> |               |    |  |
| 1.                   | NOV.<br>2023  | 10 | <p><b><u>Module – I : Indian Companies Act – 2013 Part – I</u></b></p> <ul style="list-style-type: none"> <li>• Company –Concept, Features, Role of Promoters (S.2(69) S.92), Duties and liabilities of the Promoter Effects of PreIncorporation contracts, Consequences of non-registration, and Lifting of Corporate Veil.</li> <li>• Classification of Companies Distinction between Private Company and Public Company, Advantages and disadvantages of Private company and Public Company, Common Procedure for Incorporation of Company, Memorandum of Association (MOA) &amp; Article of Association (AOA) – Concept, Clauses of MOA, AOA-Contents, Doctrine of constructive notice, Doctrine of Ultra Vires, Doctrine of Indoor Management. Prospectus – Concept, Kinds, Contents, Private Placement.</li> </ul>   |
| 2.                   | DEC.<br>2023  | 07 | <p><b><u>Module – II : Indian Companies Act – 2013, Part – II</u></b></p> <ul style="list-style-type: none"> <li>• Member of a Company –Concept, Who can become a member, Modes of acquiring membership, Cessation of membership, Right &amp; Liabilities of Members.</li> <li>• Director – Qualifications&amp; Disqualification, Classification, Director Identification Number (DIN), Legal Position of Directors.</li> <li>• Meetings – Types, Legal Provisions of Statutory Meeting, Annual General Meeting, Extra</li> <li>• Ordinary Meeting, Board Meetings.</li> </ul>   |

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|----|---------------|----|---|
| 3. | JAN.<br>2024  | 14 | <p><b><u>Module – III Indian Partnership Act – 1932</u></b></p> <ul style="list-style-type: none"> <li>Partnership – Concept, Essentials, True Test of Partnership, Partnership Deed, Types of Partnership, Rights and Duties of Partners; Distinguish between Partnership &amp; Hindu Undivided Family (HUF).</li> <li>Dissolution– Concept, Modes of Dissolution, Consequences of Dissolution. Limited Liability Partnership (LLP) 2008 – Concept, Characteristics, Advantages &amp; Disadvantages, Procedure for Incorporation.</li> <li>Extent of L.L.P.- Conversion of LLP, Mutual rights &amp; duties of partners, Winding up of LLP, Distinction between LLP and Partnership.</li> </ul>   |
| 4. | FEB.<br>2024  | 10 | <p><b><u>Module IV Consumer Protection Act, 1986 &amp; Competition Act 2002</u></b></p> <ul style="list-style-type: none"> <li>Consumer Protection Act – Concept, Objects, Reasons for enacting the Consumer Protection Act, Definition of Consumer, Consumer Dispute, Complaint, Complainant, Defect, Deficiency, Consumer Dispute, Unfair Trade Practices, Goods and Services.</li> <li>Consumer Protection Councils &amp; Redressal Agencies– District, State &amp; National. Competition Act 2002 – Concept, Salient Features, Objectives &amp; Advantages. Abuse of Dominant Position, Competition Commission of India, Anti- Competition Agreements.</li> </ul>   |
| 5. | MARCH<br>2024 | 09 | <p><b><u>Module – V : Intellectual Property Rights</u></b></p> <ul style="list-style-type: none"> <li>Intellectual Property Right (IPR) – Concept, Nature, Introduction &amp; background of IPR in India. IPR relating to Patents – Concepts of Invention and discovery, Comparison (S2 (j)), Concept of Patents, General principles applicable to working of patented inventions, Term of Patent. Infringement of Patent Rights &amp; Remedies. (Ss. 104-115)</li> <li>IPR relating to Copyrights- Concept of Copyright (Ss. 14, 16, 54,) Concept of author and authorized acts, (S.2) Ownership of Copy right (S.17) Duration or term of Copy right. (S. 22-27), Original work and fair use, Rights of Copyright holder, Infringement of Copyrights &amp; Remedies. (Ss. 51, 52)</li> <li>IPR relating to Trademarks –Concept, Functions of Trade Mark, types, trademarks that cannot be registered, Registration of Trade Marks and rights of the proprietor of Trade Marks. Procedure for registration of Trade Marks.. Infringement of Trademarks &amp; Remedies.</li> </ul> |

*Darhyar*

SUBJECT TEACHER

*Darhyar*

HEAD OF THE DEPARTMENT  
Head

PRINCIPAL



Department of Commerce  
S. M. D. L. College, Kalamboli.

I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

**Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science  
College, Kalamboli.**

**Teaching Plan: Academic Year – 2022-23**

Name of the Faculty: - Mrs. Prajakti Patil

Class: - S.Y.B.Com

Subject: - Foundation Course

Name of Paper: - Foundation Course III

Department: Commerce

**SEMESTER - 3**

| Sr. No. | Month  | Available Period | Topic/Sub Topic to be Taught  |
|---------|--------|------------------|---|
| 1.      | June   | 6                | <b>Module 1: Human Rights Provisions, Violations and Redressal</b><br>A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms.<br>B. Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms.<br>C. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. |
| 2.      | July   | 6                | D. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms.<br>E. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms.  |
|         |        | 6                | <b>Module 2: Dealing With Environmental Concerns</b><br>A. Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects.<br>B. Some locally relevant case studies of environmental disasters.   |
| 3.      | August | 5                | C. Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness.   |



|    |           |   |  |
|----|-----------|---|--|
|    |           | 7 | <p>D. Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation.</p> <p><b>Module3: Science and Technology I</b></p> <p>A. Development of Science- the ancient cultures, the Classical era, the Middle Ages, the Renaissance, the Age of Reason and Enlightenment.</p> <p>B. Nature of science- its principles and characteristics; Science as empirical, practical, theoretical, validated knowledge.</p> <p>C. Science and Superstition- the role of science in exploding myths, blind beliefs and prejudices; Science and scientific temper- scientific temper as a fundamental duty of the Indian citizen.</p> |
| 4. | September | 4 | <p>D. Science in everyday life- technology, its meaning and role in development; Interrelation and distinction between science and technology.</p>   |
|    |           | 5 | <p><b>Module4: Soft Skills for Effective Interpersonal Communication</b></p> <p>Part A I) Effective Listening - Importance and Features. II) Verbal and Non-Verbal Communication; Public-Speaking and Presentation Skills. III) Barriers to Effective Communication; Importance of Self-Awareness and Body Language.</p>   |
| 5. | October   | 6 | <p>Part B I) Formal and Informal Communication - Purpose and Types. II) Writing Formal Applications, Statement of Purpose (SOP) and Resume. III) Preparing for Group Discussions, Interviews and Presentations.</p> <p>Part C I) Leadership Skills and Self-Improvement - Characteristics of Effective Leadership. II) Styles of Leadership and Team-Building.</p> <p>Revision</p>   |

Name of Paper: - Foundation Course IV

**SEMESTER – 4**

|    |          |   |  |
|----|----------|---|--|
| 6. | November | 4 | <p><b>Module 1: Significant, contemporary Rights of Citizens</b></p> <p>A. Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements.</p> |
|----|----------|---|--|

|    |          |   |   |
|----|----------|---|---|
| 7. | December | 8 | <p>B. Right to Information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories.</p> <p>C. Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure to file a PIL.; some landmark cases.</p> <p>D. Citizens' Charters, Public Service Guarantee Acts.</p>   |
| 8. | January  | 5 | <p><b>Module 2: Approaches to understanding Ecology</b></p> <p>A. Understanding approaches to ecology- Anthropocentrism, Biocentrism and Eco centrism, Ecofeminism and Deep Ecology.</p>  |
| 9. | February | 6 | <p>B. Environmental Principles-1: the sustainability principle; the polluter pays principle; the precautionary principle.</p> <p>C. Environmental Principles-2: the equity principle; human rights principles; the participation principle.</p>   |
|    |          | 7 | <p><b>Module 3: Science and Technology II</b></p> <p>Part A: Some Significant Modern Technologies, Features and Applications:</p> <p>i. Laser Technology- Light Amplification by Stimulated Emission of Radiation; use of laser in remote sensing, GIS/GPS mapping, medical use.</p> <p>ii. Satellite Technology- various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.</p> <p>iii. Information and Communication Technology- convergence of various technologies like satellite, computer and digital in the information revolution of today's society.</p> <p>iv. Biotechnology and Genetic engineering- applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life.</p> <p>v. Nanotechnology- definition: the study, control and application of phenomena and materials at length scales below 100 nm; uses in medicine, military intelligence and consumer products.</p> |
|    |          | 4 | Part B: Issues of Control, Access and Misuse of Technology.   |
|    |          | 8 | <b>Module 4: Introduction to Competitive Examinations</b>   |

|     |       |   |  |
|-----|-------|---|--|
|     |       |   | <p>Part A. Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres:</p> <p>i. Examinations conducted for entry into professional courses - Graduate Record Examinations (GRE), Graduate Management Admission Test (GMAT), Common Admission Test (CAT) and Scholastic Aptitude Test (SAT).</p> <p>ii. Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission (SSC), State Public Service Commissions, Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession.</p> <p>Part B. Soft skills required for competitive examinations- (7 Lectures)</p> <p>i. Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking</p> <p>ii. Motivation: Concept, Theories and Types of Motivation</p> |
| 10. | March | 3 | <p>iii. Goal-Setting: Types of Goals, SMART Goals, Stephen Covey's concept of human endowment</p> <p>iv. Time Management: Effective Strategies for Time Management</p> <p>v. Writing Skills: Paragraph Writing, Report Writing, Filing an application under the RTI Act, Consumer Grievance Letter.)</p>   |

*Pooja*

Subject Teacher

*Pradyumna*

Head of the Department

**Head**

Department of Commerce  
S. M. D. L. College, Kalamboli.

*Mamta*

Principal

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ACS College, Kalamboli,  
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SES'S

SHIKSHAN MAHARSHI DADASAHEB LIMYE,ARTS,COMMERCE AND SCIENCE  
COLLEGE,KALAMBOLI

Teaching plan: Academic year 2022-2023

Name of Faculty: Machigar Jaya Dharmaraj

Class – S.y.b.com

Sub- Accountancy and financial management

Department: Commerce

| Sr.no        | month | Available period | Topic/sub to be taught  |
|--------------|-------|------------------|---|
| Semester III |       |                  |   |
| 1.           | June  | 12               | <b>1 Partnership Final Accounts based on Adjustment of Admission or Retirement/Death of a Partner during the year</b><br><br>Simple final accounts questions to demonstrate the effect on final Accounts when a partner is admitted during the year or when partner Retires / dies during the year.<br>Allocation of Gross profit prior to and after admission / retirement is not given and apportionment of other expenses based on time / Sales/other given basis.<br><br>Ascertainment of gross profit prior to and after admission/retirement/death when stock on the date of admission/retirement is given and apportionment of other expenses based on time / Sales / other given basis Excluding Questions where admission / retirement / death takes place in the same year. |
| 2.           | July  | 12               | <b>2 Piecemeal Distribution of Cash</b>   |



|    |           |    |  |
|----|-----------|----|--|
|    |           |    | <p>i) Excess Capital Method only<br/> asset taken over by a partner</p> <p>iii) Treatment of past profits or past losses in the Balance sheet</p> <p>iv) Contingent liabilities / Realization expenses / amount kept aside for expenses and adjustment of actual</p> <p>Treatment of secured liabilities</p> <p>Treatment of preferential liabilities like Govt. dues / labour dues etc. Excluding : Insolvency of partner and Maximum Loss Method</p> |
| 3. | August    | 12 | <p><b>Amalgamation of Firms</b></p> <p><b>Realization method</b></p> <p>Calculation of purchase consideration<br/> Journal / ledger accounts of old firms<br/> Preparing Balance sheet of new firm<br/> Adjustment of goodwill in the new firm</p> <p>Realignement of capitals in the new firm by current accounts cash or a combination thereof Excluding Common transactions between the amalgamating firms.</p>                                     |
| 4. | September | 06 | <p><b>Conversion / Sale of a Partnership Firm into a Ltd. Company</b></p> <p>(i) Realization method only</p> <p>(ii) Calculation of New Purchase consideration, Journal / Ledger Accounts of old firms. Preparing Balance sheet of new company</p>   |
| 5. | October   | 06 |  |



## Semester IV

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|----|----------|----|--|
| 6. | November | 12 | <p><b>1. Introduction to Company Accounts</b></p> <p>Introduction of basic terms: Types of companies, nature and formation of companies, Shares, Debentures, Share Capital, Reserves and surplus, types of assets and liabilities, dividend format of Balance Sheet (Only theory)</p> <p>Issue of shares: Different modes IPO, Private Placements, Preferential, Rights, ESO, SWEAT and ESCROW account, Issue of shares at par, premium and discount, under subscription and Over subscription of shares, forfeiture and reissue of forfeited shares, issue of shares for consideration other than cash. (Only theory)</p>   |
| 7. | December | 12 | <p><b>Issue of Debentures:</b> types of Debentures, Issue of debentures at par, premium and discount, Issue of Debentures with consideration of Redemption, Issue of debentures for cash receivable in instalments or at a time Issue of debentures for consideration other than cash. (Only theory)</p> <p><b>Redemption of Preference Shares</b></p> <p>Provision of the Companies Act for redemption of Preference Shares (Sec 55 of the Companies Act, 2013), Companies (Share and Debentures) Rules.</p> <p>Methods of Redemption of fully paid up Preference Shares as per Companies Act, 2013: The proceed of a fresh issue of shares, the capitalization of undistributed profits and a combination of both, calculation of minimum fresh issue to provide the fund for redemption, (Question on entries and/or Balance Sheet)</p> |
| 8. | January  | 12 | <p><b>Note:</b> Companies governed by Section 133 of the Companies Act, 2013 and comply with the accounting standards prescribed for them. Hence, the balance in security premium account not to be utilised for premium payable on redemption of preference</p>   |



Teaching Plan : Academic Year :-2022-2023

Name of the Faculty : - Dr. Arote B.M

Class :- S.Y.B.Com

Sub :-Commerce- IIIrd & IVth

Department : Commerce

| Sr. No.               | Month      | Available Period | Topic/Sub Topic to be Taught   |
|-----------------------|------------|------------------|--|
| <b>SEMESTER - III</b> |            |                  |  |
| 1.                    | June.2022  | 12               | <b>Introduction to Management</b><br>Management- Concept, Nature, Functions, Managerial Skills & Competencies • Evolution of Management Thoughts Classical Approach: Scientific Management – F.W.Taylor's Contribution<br>Classical Organization Theory: Henri Fayol's Principles Neo Classical: Human Relations Approach – Elton Mayo's Hawthorne experiments • Modern Management Approach-Peter Drucker's Dimensions of Management, Indian Management Thoughts: Origin & Significance of Indian Ethos to Management. |
| 2.                    | Jully.2022 | 12               | <b>Planning &amp; Decision Making</b><br>Planning - Steps, Importance, Components, Coordination – Importance • M.B.O -Process, Advantages, Management By Exception- Advantages; Management Information System- Concept, Components • Decision Making - Techniques, Essentials of a Sound Decision Making, Impact of Technology on Decision Making.   |
| 3.                    | Aug. 2022  | 12               | <b>Organizing</b><br>Organizing-Steps, Organization Structures – Features of Line & Staff Organization, Matrix Organization, Virtual Organization, Formal's Informal Organization. • Departmentation -Meaning -Bases, Span of Management- Factors Influencing Span of Management, Tall and Flat Organization. • Delegation of Authority- Process, Barriers to Delegation, Principles of Effective Delegation. Decentralization: Factors Influencing Decentralization, Centralization v/s Decentralization              |
| 4.                    | Sept. 2022 | 12               | <b>Directing and Controlling</b><br>Motivation – Concept, Importance, Influencing factors, Importance of Communication, Barriers to effective Communication • Leadership- Concept, Functions, Styles, Qualities of a good leader. • Controlling - Concept, Steps, Essentials of good control system, Techniques of Controlling -PERT, CPM, Budgetary Control, Management Audit.  |
|                       | Oct.2022   | ----             | .....  |
| <b>SEMESTER - IV</b>  |            |                  |  |
| 1                     | Nov.2022   | 12               | <b>Production &amp; Inventory Management</b><br>Production Management: Objectives, Scope Production Planning & Control: Steps, Importance • Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity.  |
|                       | Dec. 2022  | 06               | Inventory Management- Objectives, Inventory Control- Techniques: Scientific Inventory Control System – Importance  |
| 2                     | Dec. 2022  | 06               | <b>Quality Management :</b><br>Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features. • Quality Management Tools<br>TQM – Importance, Six Sigma Process, ISO 9000 – Certification   |



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|   | Jan.2023   | 06 | Procedure, Kaizen – Process • Service Quality Management: Importance, SERVQUAL Model, Measures to improve service quality.  |
| 3 | Jan.2023   | 06 | <b>Indian Financial System:</b>   |
|   | Feb.2023   | 06 | Indian Financial Market: Structure, Primary Market – IPO Procedure<br>Dematerialization: Process, Role of Depositories: NSDL and CDSL •<br>SEBI: Functions of SEBI, Investors protection measures of SEBI.<br><br>Stock Exchange – Functions, Speculators. • Credit Rating: Advantages, Credit Rating Agencies in India - CRISIL, CARE, and ICRA. |
| 4 | Feb.2023   | 06 | <b>Recent Trends in Finance :</b><br>Mutual Funds- Advantages and Limitations, Types, Factors responsible for growth of mutual funds – Systematic Investment Plan. • Commodity Market: Categories, Derivatives Market: Types, Participants, Types of Derivative Instruments.  |
|   | March 2023 | 12 | Start-up Ventures –Concept, Sources of Funding, Micro Finance – Importance, Role of Self Help Groups.   |

*Buy*

Subject Teacher

*Dashyee*

Head of the Department

Head

Department of Commerce  
S. M. D. L. College, Kalamboli.

*H. S. Karmade*

Principal

PRINCIPAL

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Parvel, Dist : Raigad.





SES's

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli.

**Teaching Plan:** Academic Year – 2021-22

Name of the Faculty: - TEERTH RAJ CHAUBEY

Class:- F. Y. B. Sc.

Sub:- Mathematic

**Department:** Mathematic

| Sr. No.             | Month             | Available Period | Topic/Sub Topic to be Taught   |
|---------------------|-------------------|------------------|--|
| <b>SEMESTER - I</b> |                   |                  |  |
| 1.                  | July-August       | 15L              | <b>USMT 101/ UAMT 101: CALCULUS I</b><br><b>Unit I: Real Number System and Sequence of Real Numbers</b><br><b>Real Numbers:</b> Real number system $\mathbb{R}$ & order properties of $\mathbb{R}$ , Absolute value properties. AM-GM inequality, Cauchy-Schwarz inequality, Intervals & neighborhoods, Hudson property. Bounded sets, statement of l.u.b. axiom, g.l.b. axiom and its consequences, Supremoms & Infimum, maximum & minimum, Archimedean property & its applications.<br><b>Sequences:</b> Definition of a sequence and examples, Convergence of sequence, every convergent sequence is bounded, Limit of sequence, uniqueness of limit if it exists, Divergent sequences, Convergence of standard sequences like $c^{1/n}$ , $n^{1/n}$ , $a^n$ etc. |
| 2.                  | August-September  | 15L              | <b>Unit II: Sequences (contd.)</b><br>Algebra of convergent sequences, Sandwich theorem, Monotone sequences, Monotone convergence theorem and consequences such as convergent of $(1 + \frac{1}{n})^n$ Subsequences: Definition, Subsequence of a convergent sequence is convergent and converges to the same limit, Cauchy sequence: Definition, every convergent sequence is a Cauchy sequence and converse.   |
| 3.                  | September-October | 15L              | <b>Unit III: Limits and Continuity</b><br><b>Limit of Functions:</b> Graphs of some standard functions such as $ X $ , $e^x$ , $\log^x$ , $\frac{1}{x}$ , $ax^2 + bx + c$ , $ X $ , (Flooring function), $\lfloor X \rfloor$ (Ceiling  |

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|    |                      |     | <p>function), <math>x^n</math> (<math>n &gt; 3</math>), <math>\sin x</math>, <math>\cos x</math>, <math>\tan x</math>, <math>\sin \frac{1}{x}</math>, over suitable intervals,</p> <p>Limit of a function, evaluation of limit of simple functions using the <math>\epsilon</math> <math>\delta</math>- definition, uniqueness of limit if it exists, Algebra of limits (with proof), Limit of composite function, Sandwich theorem, Left hand, right hand limits, nonexistence of limits, Limit as <math>x \rightarrow \pm\infty</math> &amp; <math>\lim f(x) = \pm\infty</math>.</p> <p><b>Continuous functions:</b> Continuity of a real valued function on a set in terms of limits, examples, Continuity of a real valued function at end points of domain, Sequential continuity, Algebra of continuous functions, Discontinuous functions, examples of removable and essential discontinuity.</p>   |
| 4. | July-<br>August      | 15L | <p><b>USMT102: ALGEBRA I</b></p> <p><b>Unit I: Integers and divisibility</b></p> <p>Statements of well-ordering property of non-negative integers, Principle of finite induction (first and second) as a consequence of well-ordering property, Binomial theorem for non-negative exponents, Pascal Triangle.</p> <p>Divisibility in integers, division algorithm, greatest common divisor (g.c.d.) &amp; least common multiple (l.c.m.) of two integers, basic properties of g.c.d. such as existence and uniqueness of g.c.d. of integers <math>a</math> &amp; <math>b</math> &amp; that the g.c.d. can be expressed as <math>ma+nb</math>, <math>m, n, \in \mathbb{Z}</math>, Euclidean algorithm, Primes, Euclid's lemma, Fundamental theorem of arithmetic, The set of primes is infinite. Congruence's, definition and elementary properties, Euler's <math>\phi</math>- function, Statements of Euler's theorem, Fermat's theorem and Wilson theorem, Applications.</p> |
| 5. | August-<br>September | 15L | <p><b>Unit II: Functions and Equivalence relations</b></p> <p>Definition of function, domain, co domain &amp; range of a function, composite Functions, examples, Direct image <math>f(A)</math> and inverse image <math>f^{-1}(A)</math> of a function <math>f</math> Injective, surjective, bijective functions, Composite of injective, surjective, bijective functions, Invertible functions, Bijective functions are invertible &amp; Conversely, Examples of functions including constant, identity, projection, Inclusion, Binary operation as a function, properties, examples. Equivalence relations, Equivalence classes, properties such as two equivalence Classes are either identical or disjoint; Definition of partition, every partition gives an equivalence relation and vice versa, Congruence an equivalence relation on <math>\mathbb{Z}</math>, Residue</p>   |


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|                      |                   |     | classes, Partition of $Z$ , Addition modulo $n$ , Multiplication modulo $n$ , examples, conjugate classes.  |
| 6                    | September-October | 15L | <p><b>Unit III: Polynomials</b></p> <p>Definition of polynomial, polynomials over <math>F</math>, where <math>F = Q, R</math> or <math>C</math>. Algebra of polynomials, degree of polynomial, basic properties, Division algorithm in <math>F[X]</math> (without proof) and g.c.d. of two polynomials &amp; its basic properties (without proof), Euclidean algorithm (without proof), applications, Roots of a polynomial, relation between roots and coefficients, multiplicity of a root, Remainder theorem, Factor theorem, A polynomial of degree <math>n</math> over <math>F</math> has at most <math>n</math> roots in <math>F</math>, If roots in <math>F</math> occur in conjugate pairs, Statement of Fundamental Theorem of Algebra, A polynomial of degree <math>n</math> in <math>C[X]</math> has exactly <math>n</math> complex roots counted with multiplicity, A non constant polynomial in <math>R[X]</math> can be expressed as a product of linear and quadratic factors in <math>R[X]</math>, Necessary condition for a rational number <math>\frac{p}{q}</math> to be a root of a polynomial with integer coefficients, simple consequences such as <math>\sqrt{p}</math> is a irrational number where <math>p</math> is a prime number, <math>n^{\text{th}}</math> roots of unity, sum of <math>n^{\text{th}}</math> root of unity</p> |
| <b>SEMESTER – II</b> |                   |     |   |
| 7                    | July-August       | 15L | <p><b>USMT 201: CALCULUS II</b></p> <p><b>Unit I: Series</b></p> <p>Series of real numbers, simple examples of series, Sequence of partial sums, convergence of series, convergent and divergent series, Necessary condition: series <math>\sum a_n</math>, convergent implies <math>a_n \rightarrow 0</math> converse not true, Algebra of convergent series, Cauchy criterion, <math>\sum a_n</math> converges for <math>p &gt; 1</math> divergence of <math>\sum a_n \frac{1}{n}</math> Comparison test, limit comparison test, Alternating series, Leibnitz theorem (alternating series test) &amp; convergence of <math>\sum a_n \frac{1}{n}</math> Absolute convergence, conditional convergence, absolute convergence implies convergence but not conversely, Ratio test, root test (without proofs) &amp; examples.</p>   |
| 8                    | August-September  | 15L | <p><b>Unit II: Continuous functions and Differentiation</b></p> <p><b>Properties of Continuous functions:</b> If <math>f: [a,b] \rightarrow R</math> is continuous at <math>x_0 \in [a,b]</math> &amp; <math>f(x_0) &gt; 0</math> then there exists a neighborhood <math>N</math> of <math>x_0</math> such that <math>f(x) &gt; 0</math> for all <math>x</math> in <math>N</math> if <math>f: [a,b] \rightarrow R</math> is continuous function then</p>  |

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|    |                   |     | <p>the image <math>f([a,b])</math> is a closed interval, Intermediate value theorem and its applications, Bolzano-Weierstrass theorem (statement only), A continuous function on a closed &amp; bounded interval is bounded and attains its bounds.</p> <p><b>Differentiation of real valued function of one variable:</b> Definition of differentiation at a point and on an open set, examples of differentiable &amp; non differentiable functions, differentiable functions are continuous but not conversely, Algebra of differentiable functions, chain rule, Higher order derivatives, Leibnitz rule, Derivative of inverse functions, Implicit differentiation (only examples).</p>   |
| 9. | September-October | 15L | <p><b>Unit III: Application of differentiation (15 Lectures)</b></p> <p>Definition of local maximum and local minimum, necessary condition, stationary points, second derivative test, examples, Graphing of functions using first &amp; second derivatives, concave, convex functions, points of inflection, Rolle's theorem, Lagrange's and Cauchy's mean value theorems, applications &amp; examples, Monotone increasing and decreasing function, examples, L-hospital rule without proof, examples of indeterminate forms, Taylor's theorem with Lagrange's form of remainder with proof, Taylor polynomial &amp; applications.</p>  |
| 10 | July-August       | 15L | <p><b>Unit I: System of Linear equations and Matrices (15 Lectures)</b></p> <p>Parametric equation of lines and planes, System of homogeneous &amp; non homogeneous linear equations, the solution of system of <math>m</math> homogeneous linear equations in <math>n</math> unknowns by elimination &amp; their geometrical interpretation for <math>(m,n) = (1, 2), (1, 3), (2, 2), (2, 3), (3, 3)</math> Definition of <math>n</math>-tuples of real numbers, sum of <math>n</math> tuples and scalar multiple of <math>n</math>-tuple.</p> <p>Matrices with real entries, addition, scalar multiplication and multiplication of matrices, Transpose of a matrix, Type of matrices: zero matrix, identity matrix, scalar, diagonal, upper triangular, lower triangular, symmetric, skew-symmetric matrices, Invertible matrices, identities such as <math>(AB)^t = B^t A^t</math>, <math>(AB)^{-1} = B^{-1} A^{-1}</math>.</p> <p>System of linear equations in matrix form, elementary row operations, row echelon matrix, Gaussian elimination method, to deduce that the system of <math>m</math> homogeneous linear equations in <math>n</math> unknowns has a non-trivial solution if <math>m &lt; n</math>.</p> |


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| 11. | August-September  | 15L | <p><b>Unit II: Vector spaces</b></p> <p>Definition of real vector space, examples such as <math>\mathbb{R}^n</math> with real entries, <math>\mathbb{R}[X]</math>, space of <math>m \times n</math> matrices over <math>\mathbb{R}</math>, space of real valued functions on a non empty set <math>X</math>.</p> <p>Subspace: Definition, examples of subspaces of <math>\mathbb{R}^2</math> &amp; <math>\mathbb{R}^3</math> such as lines, plane passing through origin, set of <math>2 \times 2</math>, <math>3 \times 3</math> upper triangular, lower triangular, diagonal, symmetric and skew-symmetric matrices as subspaces of <math>M_2(\mathbb{R})</math>, <math>M_3(\mathbb{R})</math>, <math>P_n[X] = \{a_0 + a_1 x + \dots + a_n x^n, a_i \in \mathbb{R} \text{ for } 0 \leq i \leq n\}</math> of <math>\mathbb{R}[X]</math>, solutions of <math>m</math> homogeneous linear equations in <math>n</math> unknowns as a subspace of <math>\mathbb{R}^n</math>, space of continuous real valued functions on a nonempty set <math>X</math> is a subspace of <math>F(X, \mathbb{R})</math>, properties of subspace such as necessary and sufficient condition for a non empty subset to be a subspace of a vector space, arbitrary intersection of</p> <p>subspaces of a vector space is a subspace; union of two subspaces is a subspace if and only if one is a subset of the other, Linear combinations of vectors in a vector space, Linear span <math>L(\delta)</math> of a non empty subset <math>\delta</math> of a vector space, <math>\delta</math> is the generating set of <math>L(\delta)</math> linear span of a non empty subset of a vector space is a subspace of the vector space, Linearly independent / Linearly dependent sets in a vector space, properties such as; a set of vectors in a vector space is linearly dependent if and only if one of the vectors <math>v_i</math> is a linear combination of the other vectors <math>v_j</math>.</p> |
| 12  | September-October | 15L | <p><b>Unit III: Basis and Linear Transformation</b></p> <p>Basis of a vector space, Dimension of a vector space, maximal linearly independent subset of a vector space is a basis of a vector space, minimal generating set of a vector space is a basis of a vector space, any set of <math>n+1</math> vectors in a vector space with <math>n</math> elements in its basis is linearly dependent, any two basis of a vector space have the same number of elements, any <math>n</math> linearly independent vectors in an <math>n</math> dimensional vector space is a basis of a vector space, if <math>W_1</math> &amp; <math>W_2</math> are subspaces of a vector space then <math>W_1 + W_2</math> is a subspace of the vector space, <math>\dim(W_1 + W_2) = \dim W_1 + \dim W_2 - \dim(W_1 \cap W_2)</math> extending the basis of a subspace to a basis of a vector space.</p> <p>Linear transformation, kernel, matrix associated with a linear transformation, properties such as; kernel of a linear transformation is a subspace of the domain space, for a linear transformation <math>T</math>, image <math>(T)</math> is a subspace of the co-domain space, if <math>V, W</math>, are vector spaces with <math>\{v_1, v_2, \dots, v_n\}</math> a basis of <math>V</math> &amp; <math>\{w_1, w_2, \dots, w_n\}</math> any vectors in <math>W</math> then there exists a unique linear transformation <math>T: V \rightarrow W</math> such</p>   |



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|  |  |  | that $T(v_i) = W_i, 1 \leq i \leq n$ , Rank nullity theorem (only statement) & examples. |
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Subject Teacher

  
Head of the Department

  
Principal  
SESS S. M. Gadgil's Limaye  
ACS College, Kalamboli,  
Tal.- Panvel, Dist. - Raigad.

SES's

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli.

**Teaching Plan** : Academic Year – 2021-22

Name of the Faculty: - TEERTH RAJ CHAUBEY

Class:- S. Y. B. Sc. PLAIN

Sub:- Mathematics

**Department:** Mathematics

| Sr. No.               | Month      | Available Period | Topic/Sub Topic to be Taught   |
|-----------------------|------------|------------------|--|
| <b>SEMESTER - III</b> |            |                  |  |
| 1.                    | June- July | 15L              | <b>Unit I Real Numbers</b><br><b>(a)</b> (i) Statements of algebraic and order properties of $\mathbb{R}$ .<br>(ii) Elementary consequences of these properties including the A.M. - G.M. inequality, Cauchy-Schwarz inequality, and Bernoulli inequality (without proof).<br><b>(b)</b> (i) Review of absolute value and neighborhood of a real number.<br>(ii) Hausdorff property.<br><b>(c)</b> Supremum (lub) and infimum (glb) of a subset of $\mathbb{R}$ lub axiom of $\mathbb{R}$ Consequences of lub axiom of $\mathbb{R}$ including.<br>(i) Archimedean property.<br>(ii) Density of rational numbers.<br>(iii) Existence of $n^{\text{th}}$ root of a positive real number (in particular square root).<br>(iv) Decimal representation of a real number.<br><b>(d)</b> (i) Nested Interval Theorem.<br>(ii) Open sets in $\mathbb{R}$ & closed sets as complements of open sets.<br>(iii) Limit points of a subset of $\mathbb{R}$ examples, characterization of a closed set as a set containing all its limit points.<br><b>(e)</b> Open cover of a subset of $\mathbb{R}$ , Compact subset of $\mathbb{R}$ , Definition and examples. A closed and bounded interval $[a; b]$ is compact. |

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|    |             |     | <p>(iii) Limit points of a subset of <math>\mathbb{R}</math> examples, characterization of a closed set as a set containing all its limit points.</p> <p>(e) Open cover of a subset of <math>\mathbb{R}</math>, Compact subset of <math>\mathbb{R}</math>, Definition and examples. A closed and bounded interval <math>[a; b]</math> is compact.</p>   |
| 2. | July-August | 15L | <p><b>Unit II Sequences, Limits and Continuity</b></p> <p>(a) Sequence of real numbers, Definition and examples. Sum, Difference, product, quotient &amp; scalar multiple of sequences.</p> <p>(b) Limit of a sequence, Convergent &amp; divergent sequences, Uniqueness of limit of a convergent sequence, Algebra of convergent sequences, Sandwich Theorem of sequences. Limits of standard sequences such as</p> $\left\{\frac{1}{n^{\alpha}}\right\} \alpha > 0, \{a^n\}  a  < 1, \{a^{1/n}\}, \{a^{1/n}\} a > 0, \left\{\frac{1}{n!}\right\}, \left\{\frac{a}{n}\right\} a \in \mathbb{R}$ <p>Examples of divergent sequences.</p> <p>(c) (i) Bounded sequences, A convergent sequence is bounded.</p> <p>(ii) Monotone sequences, Convergence of bounded monotone sequences, The number <math>e</math> as a limit of a sequence, Calculation of square root of a positive real number.</p> <p>(d) (i) Subsequences.</p> <p>(ii) Limit inferior and limit superior of a sequence.</p> <p>(iii) Bolzano-Weierstrass Theorem of sequences.</p> <p>(iv) Sequential characterization of limit points of a set.</p> <p>(e) Cauchy sequences, Cauchy completeness of <math>\mathbb{R}</math>.</p> <p>(f) Limit of a real valued function at a point</p> <p>(i) Review of the <math>\epsilon</math>-<math>\delta</math> definition of limit of functions at a point, uniqueness of limits of a function at a point whenever it exists.</p> |



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|    |                  |     | <p>(ii) Sequential characterization for limits of functions at a point, Theorems of limits (Limits of sum, difference, product, quotient, scalar multiple and sandwich theorem).</p> <p>(iii) Continuity of function at a point, <math>\epsilon</math>-<math>\delta</math> definition sequential criterion, Theorems about continuity of sum, difference, product, quotient and scalar multiple of functions at a point in the domain using <math>\epsilon</math>-<math>\delta</math> definition or sequential criterion. Continuity of composite functions. Examples of limits and continuity of a function at a point using sequential criterion.</p> <p>(iv) A continuous function on closed and bounded interval is bounded and attains bounds.</p>  |
| 3. | August-September | 15L | <p><b>Unit III Infinite Series</b></p> <p>(a) Infinite series of real numbers, The sequence of partial terms of an infinite series, convergence &amp; divergence of series, sum, difference &amp; multiple of convergent series are again convergent.</p> <p>(b) Cauchy criterion of convergence of series. Absolute convergence of a series, Geometric series.</p> <p>(c) Alternating series, Leibnitz' Theorem, Conditional convergence, An absolutely convergent series is conditionally convergent, but the converse is not true.</p> <p>(d) Rearrangement of series (without proof), Cauchy condensation test (statement only), application to convergence of p – series <math>\sum \frac{1}{n^p}</math> (<math>p &gt; 1</math>). Divergence of Harmonic series <math>\sum \frac{1}{n}</math>.</p> <p>(e) Tests for absolute convergence, Comparison test, Ratio test, Root test including proofs.</p> <p>(f) Power series, Radius of convergence of power series, The exponential, sine and cosine series.</p> |

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|   |                   |     | <p><b>(g)</b> Fourier series, Computing Fourier Coefficients of simple functions such as <math>x</math>, <math>x^2</math>, <math> x </math>, piecewise continuous functions on <math>[-\pi, \pi]</math>.</p>  |
| 4 | September-October | 15L | <p><b>Unit 1. Algorithms</b></p> <p><b>(a)</b> Definition of an algorithm, characteristics of an algorithm</p> <p>Selection and iterative constructs in pseudocode, simple examples such as</p> <p>(i) Finding the number of positive and negative integers in a given set,</p> <p>(ii) Finding absolute value of a real number,</p> <p>(iii) Exchanging values of variables,</p> <p>(iv) Sum of <math>n</math> given numbers.</p> <p><b>(b)</b> Searching and sorting algorithms, including</p> <p>(i) Finding maximum and/or minimum element in a finite sequence of integers.</p> <p>(ii) The linear search and binary search algorithms of an integer <math>x</math> in a finite sequence of distinct integers.</p> <p>(iii) Sorting of a finite sequence of integers in ascending order. Bubble sort and insertion sort.</p> <p><b>(c)</b> Algorithms on integers:</p> <p>(i) Computing quotient and remainder in division algorithm.</p> <p>(ii) Converting decimal number to a binary number.</p> <p>(iii) Modular exponent.</p> <p>(iv) Euclidean algorithm to find the g.c.d of two non-zero integers.</p> <p><b>(d)</b> Algorithms on matrices:</p> |

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|   |                   |     | <p>(i) Addition and multiplication of matrices.</p> <p>(ii) Transpose of a matrix.</p> <p>(iii) Power of a matrix.</p> <p><b>(e)</b> Complexity of algorithm: Big O notation, Growth of functions, Time complexity, Best case, Average case, Worst Case complexity. Using big O notation to express the best, average and worst case behavior for sorting and Searching algorithms.</p> <p><b>(f)</b> Recursion, Examples including:</p> <p>(i) Fibonacci sequence</p> <p>(ii) Computing <math>a^n</math> for non-negative integer n.</p> <p>(iii) Euclidean algorithm.</p> <p>(iv) Searching algorithm</p> <p>(v) Factorial of a non-negative integer.</p> <p>Comparison of recursive and iterative methods.</p> |
| 5 | September-October | 15L | <p><b>Unit II Graphs</b></p> <p><b>(a)</b> Introduction to graphs: Types of graphs: Simple graph, Multigraph, psuedograph, directed graph, directed multigraph. One example/graph model of each type to be discussed.</p> <p><b>(b)</b> (i) Graph Terminology: Adjacent vertices, degree of a vertex, isolated vertex, pendant vertex in a undirected graph.</p> <p>(ii) The handshaking Theorem for an undirected graph. An undirected graph has an even number odd vertices.</p>  |

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|   |                   |     | <p>(c) Some special simple graphs: Complete graph, cycle, wheel in a graph, Bipartite graph, regular graph.</p> <p>(d) Representing graphs and graph isomorphism.</p> <p>(i) Adjacency matrix of a simple graph.</p> <p>(ii) Incidence matrix of an undirected graph.</p> <p>(iii) Isomorphism of simple graphs.</p> <p>(e) Connectivity:</p> <p>(i) Paths circuit (or cycle) in a graph.</p> <p>(ii) Connected graphs, connected components in an undirected graph, A strongly connected directed graph, A weakly connected directed graph. A cut vertex.</p> <p>(iii) Connecting paths between vertices.</p> <p>(iv) Paths and isomorphisms.</p> <p>(v) Euler paths and circuits, Hamilton paths and circuits.</p> <p>Dirac's Theorem, Ore's Theorem</p> <p>(vi) Shortest path problem, The shortest path algorithm - Dijkstra's Algorithm.</p> <p>(f) Planar graphs, planar representation of graphs, Euler's formula. Kuratowski's Theorem (statement only).</p> |
| 6 | September-October | 15L | <p><b>Unit III Trees</b></p> <p>(a) (i) Trees: Definition and Examples.</p> <p>(ii) Forests, Rooted trees, sub trees, binary trees.</p> <p>(iii) Trees as models.</p>  |

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|                      |                      |            | <p>(iv) Properties of Trees.</p> <p><b>(b) Application of Trees:</b></p> <p>(i) Binary Search Trees, Locating and adding items to a Binary Search Tree.</p> <p>(ii) Decision Trees (simple examples).</p> <p>(iii) Game Trees, Minimax strategy and the value of a vertex in a Game Tree. Examples of Games such as Nim and Tic-tac-toe.</p> <p><b>(c) Tree Traversal, Traversal algorithm including preorder traversal, inorder traversal, post order traversal using recursion.</b></p> <p><b>(d) (i) Spanning Tree, Depth-First Search and Breadth-First Search.</b></p> <p>(ii) Minimum Spanning Trees, Prim's Algorithm, Kruskal's Algorithm</p> <p>(The Proofs of the results in this unit are not required and may be omitted).</p> |
| <b>SEMESTER - IV</b> |                      |            |  |
| 7.                   | October-<br>November | <b>15L</b> | <p><b>Unit 1. Differential Equations</b></p> <p><b>(a) First Order Differential Equations:</b></p> <p>(i) Review of separable differential equations, homogeneous and non-homogeneous differential equations.</p> <p>(ii) Exact differential equations and integrating factors. Rules for finding integrating factors</p> <p>of <math>M(x, y)dx + N(x, y)dy = 0</math> (without proof) when,</p>   |

$$\frac{N}{X} \cdot \frac{M}{Y} = h(y),$$

$$\frac{M}{Y} \cdot \frac{N}{X} = g(x),$$

$$\frac{M}{Y} \cdot \frac{N}{X} = f(xy),$$

(iii) Linear differential equations and Bernoulli differential equations.

(iv) Modeling with first order equations. Examples from Financial Mathematics, Chemistry, Environmental Science, Population growth and decay.

**(b) Second order Linear Differential Equations:**

(i) The general second order linear differential equation. Existence and Uniqueness Theorem for the solutions of a second order initial value problem (statement only).

(ii) Homogeneous and non-homogeneous second order linear differential equations:

1. The space of solutions of the homogeneous equations as a vector space.

2. Wronskian and linear independence of the solutions.

3. The general solution of homogeneous differential equation. The use of known solutions to find the general solution of a homogeneous equations.

4. The general solution of a non-homogeneous second order equation, Complementary functions and particular integrals.

(iii) The homogeneous equation with constant coefficients, auxiliary equation, the general solution corresponding to real and distinct roots, real and equal roots and complex roots of the auxiliary equation.

(iv) Non-homogeneous equations: The method of undetermined coefficients. The method of variation of parameters.

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| 8 | November-December | 15L | <p><b>Unit II. Multiple integrals</b></p> <p>Review of functions of two and three variables, partial derivatives and gradient of two or three variables.</p> <p>(a) Double integrals:</p> <p>(i) Definition of double integrals over rectangles.</p> <p>(ii) Properties of double integrals.</p> <p>(iii) Double integrals over bounded regions.</p> <p>(b) Fubini's Theorem (without proof). Double integrals as volumes.</p> <p>(c) Applications of Double integrals: Average value, Areas, Moments, Center of Mass.</p> <p>(d) Double integrals in polar form.</p> <p>(e) Triple integrals in Rectangular coordinates, Average, volumes.</p> <p>(f) Applications of Triple integrals: Mass, Moments, Parallel axis Theorem.</p> <p>(g) Triple integrals in Spherical and Cylindrical coordinates</p> |
| 9 | December-January  | 15L | <p><b>Unit III Integration of Vector Fields</b></p> <p>(a) Line Integrals, Definition, Evaluation for smooth curves. Mass and moments for coils, springs, thin rods.</p> <p>(b) Vector fields, Gradient fields, Work done by a force over a curve in space, Evaluation of work integrals.</p> <p>(c) Flow integrals and circulation around a curve.</p> <p>(d) Flux across a plane curve.</p> <p>(e) Path independence of the integral <math>\int_B^A \mathbf{F} \cdot d\mathbf{r}</math> in an open region, <math>\mathbf{F}</math> being a vector Field over the region and A, B points in the region. Conservative Fields, potential function.</p>   |


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|    |                  |     | <p>(f) The Fundamental theorems of line integrals (without proof).</p> <p>(g) Flux density (divergence), Circulation density (curl) at a point.</p> <p>(h) Green's Theorem in plane (without proof), Evaluation of line integrals using Green's Theorem.</p>   |
| 10 | January-February | 15L | <p><b>Unit I Linear Transformations</b></p> <p><b>(a)</b> Linear transformations - definition and properties, examples including:</p> <p>(i) Natural projection from <math>R^n</math> to <math>R^m</math> (<math>n &gt; m</math>)</p> <p>(ii) The map <math>L_A: R^n \rightarrow R^m</math> defined by <math>L_A(X) = AX</math>, where <math>A</math> is an <math>m \times n</math> matrix over <math>R</math>.</p> <p>(iii) Rotations &amp; reflections in <math>R^2</math>, Stretching &amp; Shearing in <math>R^2</math></p> <p>(iv) Orthogonal projections in <math>R^n</math></p> <p>(v) Functionals.</p> <p><b>(b)</b> (i) The sum and scalar multiple of linear transformations from <math>U</math> to <math>V</math> where <math>U, V</math> are finite dimensional vector spaces over <math>R</math> is again a linear transformation.</p> <p>(ii) The space <math>L(U; V)</math> of linear transformations from <math>U</math> to <math>V</math>.</p> <p>(iii) The dual space <math>V^*</math> where <math>V</math> is finite dimensional real vector space.</p> <p><b>(c)</b> (i) Kernel and image of a linear transformation.</p> <p>(ii) Rank-Nullity Theorem.</p> <p>(iii) The linear isomorphisms, inverse of a linear isomorphism.</p> <p>(iv) Composite of linear transformations.</p> <p><b>(d)</b> (i) Representation of a linear transformation from <math>U</math> to <math>V</math>, where <math>U</math> and <math>V</math> are finite dimensional real vector spaces by matrices with respect to the given ordered bases of <math>U</math> and <math>V</math>.</p> |



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|     |                |     | <p>The relation between the matrices of linear transformation from <math>U</math> to <math>U</math> with respect to different bases of <math>U</math>:</p> <p>(ii) Matrix of sum of linear transformations and scalar multiple of a linear transformation.</p> <p>(iii) Matrices of composite linear transformation and inverse of a linear transformation.</p> <p>(e) Equivalence of rank of an <math>m \times n</math> matrix <math>A</math> and rank of the linear transformation <math>LA : R^n \rightarrow R^m</math> (<math>LA(X) = AX</math>). The dimension of solution space of the system of linear equations <math>AX = 0</math> equals <math>n - \text{rank } A</math>.</p> <p>(f) The solutions of non-homogeneous systems of linear equations represented by <math>AX = B</math>.</p> <p>(i) Existence of a solution when <math>\text{rank}(A) = \text{rank}(A;B)</math>.</p> <p>(ii) The general solution of the system is the sum of a particular solution of the system &amp; the solution of the associated homogeneous system.</p> |
| 11. | February-March | 15L | <p><b>Unit II Determinants</b></p> <p>(a) Definition of determinant as an <math>n</math>-linear skew-symmetric function from <math>R^n \times R^n \times \dots \times R^n \rightarrow R</math> such that determinant of <math>(E^1, E^2, \dots, E^n)</math> is 1, where <math>E^j</math> denotes the <math>j^{\text{th}}</math> column of the <math>n \times n</math> identity matrix <math>I_n</math>. Determinant of a matrix as determinant of its column vectors (or row vectors).</p> <p>(b) (i) Existence and uniqueness of determinant function via permutations (without proof).</p> <p>(ii) Computation of determinant of <math>2 \times 2</math>, <math>3 \times 3</math> matrices, diagonal matrices.</p> <p>(iii) Basic results on determinants such as <math>\det(A^t) = \det(A)</math>, <math>\det(AB) = \det(A) \det(B)</math>.</p> <p>(iv) Laplace expansion of a determinant (statement only), Vander monde determinant, determinant of upper triangular and lower triangular matrices.</p>  |



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|    |                |     | <p>(c) (i) Linear dependence and independence of vectors in <math>\mathbb{R}^n</math> using determinants.</p> <p>(ii) The existence and uniqueness of the system <math>AX = B</math>, where <math>A</math> is an <math>n \times n</math> matrix with <math>\det(A) \neq 0</math>.</p> <p>(iii) Cofactors and minors, Adjoin of an <math>n \times n</math> matrix <math>A</math>. Basic results such as <math>A \cdot \text{adj}(A) = \det(A) \cdot I_n</math>. An <math>n \times n</math> real matrix <math>A</math> is invertible if and only if <math>\det A \neq 0</math>, <math>A^{-1} = \frac{1}{\det A} (\text{adj} A)</math> for an invertible matrix <math>A</math>.</p> <p>(iv) Cramer's rule.</p>  |
| 12 | February-March | 15L | <p><b>Unit III. Eigenvalues and eigenvectors</b></p> <p>(a) (i) Eigenvalues and eigenvectors of a linear transformation <math>T: V \rightarrow V</math>, where <math>V</math> is a finite dimensional real vector space, Eigenvalues and eigenvectors of linear transformations listed in unit I[a] as examples.</p> <p>(ii) Eigenvalues of <math>n \times n</math> real matrices.</p> <p>(iii) The linear independence of eigenvectors corresponding to distinct eigenvalues of a linear transformation.</p> <p>(b) (i) The characteristic polynomial of an <math>n \times n</math> real matrix, characteristic roots.</p> <p>(ii) Similar matrices, characteristic polynomials of similar matrices.</p> <p>(c) The characteristic polynomial of a linear transformation <math>T: V \rightarrow V</math>, where <math>V</math> is a finite dimensional real vector space.</p> |

  
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Teaching Plan: Academic Year -2022-23

Name of the Faculty : - Aniket P. Gaikwad

Class: - F.Y.BSC (chemistry)

Sub: - Organic Chemistry

Department: CHEMISTRY

| Sr. No              | Month       | Available Period       | Topic/Sub Topic to be Taught   |
|---------------------|-------------|------------------------|--|
| <b>SEMESTER - I</b> |             |                        |  |
| 1.                  | AUG<br>2022 | 5L<br><br>2L           | <p style="text-align: center;"><b>Paper I</b><br/><b>Basics of Organic Chemistry</b></p> <p><b>3.1 Classification and Nomenclature of Organic Compounds</b><br/>Review of basic rules of IUPAC nomenclature. Nomenclature of mono and bi-functional aliphatic compounds on the basis of priority order of the following classes of compounds: alkanes, alkenes, alkynes, haloalkanes, alcohols, ethers, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives (acid halides, esters, anhydrides, amides), nitro compounds, nitriles and amines; including their cyclic analogues.</p> <p><b>3.2 Bonding and Structure of organic compounds</b><br/>Hybridization: <math>sp^3</math>, <math>sp^2</math>, <math>sp</math> hybridization of carbon and nitrogen; <math>sp^3</math> and <math>sp^2</math> hybridizations of oxygen in Organic compounds (alcohol, ether, aldehyde, ketone, carboxylic acid, ester, cyanide, amine and amide)</p> |
| 2.                  | SEP<br>2022 | 2L<br><br>4L<br><br>2L | <p>Overlap of atomic orbitals: Overlaps of atomic orbitals to form sigma and pi bonds, shapes of organic molecules. Shapes of molecules; Influence of hybridization on bond properties (as applicable to ethane, ethene, ethyne)</p> <p><b>3.3 Fundamentals of organic reaction mechanism</b></p> <p>Electronic Effects: Inductive, electromeric, resonance and mesomeric effects, hyperconjugation and their applications; Dipole moment; Organic acids and bases; their relative strengths. Bond fission: Homolytic and Heterolytic fission with suitable examples. Electrophiles and Nucleophiles; Nucleophilicity and basicity; Types (primary, secondary, tertiary, allyl, benzyl), shape and their relative stability of reactive intermediates: Carbocations, Carbanions and Free radicals.</p> <p>Introduction to types of organic reactions: Addition, Elimination and Substitution reaction. (With one example of each)</p>                    |
| 3.                  | OCT<br>2022 | 10L                    | <p style="text-align: center;"><b>Paper II</b></p> <p><b>Stereochemistry I</b><br/>Fischer Projection, Newman and Sawhorse Projection formulae (of erythro, three isomers of tartaric acid and 2,3 dichlorobutane) and their interconversions ; Geometrical isomerism in alkene and cycloalkanes: cis-trans and syn-anti isomerism E/Z notations with C.I.P rules. Optical Isomerism: Optical Activity, Specific Rotation,</p>   |

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| 4. | NOV<br>2022         | 51. | Chirality/Asymmetry, Enantiomers, Molecules with two similar and dissimilar chiral-centres, Diastereoisomers, meso structures, racemic mixture and resolution (methods of resolution not expected). Relative and absolute configuration: D/L and R/S designations. Conformation analysis of alkanes (ethane, propane and n-butane); Relative stability with energy diagrams. |
| 5. | AUG-<br>OCT<br>2022 |     | <b>Practicals-</b><br>1. Method of Purification: Purification of a given organic compound by crystallization.<br>2. Characterization of organic compound containing C, H, (O), N, S and X  |



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| SEMESTER II                         |                 |                        |  |
|-------------------------------------|-----------------|------------------------|--|
| PAPER-I                             |                 |                        |  |
| Chemistry of Aliphatic Hydrocarbons |                 |                        |  |
| 1.                                  | JAN<br>2023     | 1L                     | <b>3.1 Carbon-Carbon sigma bonds</b><br>Chemistry of alkanes: Formation of alkanes, Wurtz Reaction   |
| 2.                                  | FEB<br>2023     | 2L<br><br>6L           | Wurtz-Fittig Reactions, Free radical substitutions: Halogenation -relative reactivity and selectivity.<br><b>3.2 Carbon-Carbon pi bonds:</b><br>Formation of alkenes and alkynes by elimination reactions: Mechanism of E1, E2, E1cb reactions. Saytzeff and Hofmann eliminations. Reactions of alkenes: Electrophilic additions their mechanisms (Markownikoff/ Anti Markownikoff addition), Mechanism of oxymercuration-demercuration, hydroboration-oxidation, ozonolysis, reduction(catalytic and chemical), syn and anti-hydroxylation (oxidation). 1, 2-and 1, 4- addition reactions in conjugated dienes and, Diels-Alder reaction; Allylic and benzylic bromination using N-bromosuccinimide and mechanism, e.g. propene, 1-butene, toluene, ethylbenzene. |
| 3.                                  | MAR<br>2023     | 3L<br><br>3L<br><br>2L | Reactions of alkynes: Acidity, Electrophilic and Nucleophilic additions. Hydration to form carbonyl compounds, Alkylation of terminal alkynes.<br><b>PAPER-II</b><br><b>3.1 Stereochemistry-II: Cycloalkanes and Conformational Analysis</b><br>Types of cycloalkanes and their relative stability, Baeyer strain theory<br>Conformation analysis of cyclohexane: Chair, Boat and Twist boat forms; Relative stability with energy.  |
| 4.                                  | APR<br>2023     | 10L                    | <b>3.2 Aromatic Hydrocarbons:</b><br>Aromaticity: Hückel's rule anti-aromaticity, aromatic character of arenes, cyclic carbocations/carbanions and heterocyclic compounds with suitable examples.<br>Electrophilic aromatic substitution: halogenation, nitration, sulphonation and Friedel-Craft alkylation/acylation with their mechanism, Hammond's postulate, Directing effects of the groups.   |
| 5.                                  | JAN-MAR<br>2023 |                        | <b>Practicals-</b><br>1. Method of Purification: Purification of a given organic compound by crystallization.<br>2. Characterization of organic compound containing C, H, (O), N, S and X  |

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| Sr. No.               | Month       | Available Period       | Topic/Sub Topic to be Taught  |
|-----------------------|-------------|------------------------|---|
| <b>SEMESTER - III</b> |             |                        |   |
| 1.                    | JUN<br>2022 | 4L<br><br>2L<br><br>2L | <p style="text-align: center;"><b>Paper -I</b></p> <p><b>3.1.1. Reactions and reactivity of halogenated hydrocarbons</b></p> <p><b>3.1.1. Alkyl halides:</b> Nucleophilic substitution reactions: <math>S_N1</math>, <math>S_N2</math> and <math>S_Ni</math> mechanisms with stereochemical aspects and factors affecting nucleophilic substitution reactions-nature of substrate, solvent, nucleophilic reagent and leaving group.</p> <p><b>3.1.2. Aryl halides:</b> Reactivity of aryl halides towards nucleophilic substitution reactions. Nucleophilic aromatic substitution (<math>S_NAr</math>) addition-elimination mechanism and benzyne mechanism.</p>                        |
| 2.                    | JUL<br>2022 | 4L<br><br><br>5L       | <p><b>3.1.2. Organomagnesium and organolithium compounds:</b> Nomenclature, nature, type and reactivity of carbon-metal bond. Preparation using alkyl / aryl halide. Structure, stability and reactions with compounds containing acidic hydrogen, carbonyl compounds, <math>CO_2</math>, cyanides and epoxides.</p> <p><b>3.2 Alcohols, phenols and epoxides:</b></p> <p><b>3.2.1. Alcohols:</b> Nomenclature, Preparation: Hydration of alkenes, hydrolysis of alkyl halides, reduction of aldehydes and ketones, using Grignard reagent. Properties: Hydrogen bonding, types and effect of hydrogen bonding on different properties. Acidity of alcohols, Reactions of alcohols.</p> |
| 3.                    | AUG<br>2022 | 5L<br><br>3L           | <p><b>3.2.2. Phenols:</b> Preparation, physical properties and acidic character. Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols.</p> <p><b>3.2.3. Epoxides:</b> Nomenclature, methods of preparation and reactions of epoxides: reactivity, ring opening reactions by nucleophiles (a) In acidic conditions: hydrolysis, reaction with halogen halide, alcohol, hydrogen cyanide. (b) In neutral or basic conditions: ammonia, amines, Grignard reagents, alkoxides.</p>  |
| 4.                    | SEP 2022    | 12L                    | <p><b>Carbonyl Compounds:</b></p> <p><b>3.1</b> Nomenclature of aliphatic, alicyclic and aromatic carbonyl compounds. Structure, reactivity of aldehydes and ketones and methods of preparation; Oxidation of primary and secondary alcohols using PCC, hydration of alkynes, action of Grignard reagent on esters, Rosenmund reduction, Gattermann – Koch formylation and Friedel Craft acylation of arenes <b>3.2</b> General mechanism of nucleophilic addition, and acid catalyzed nucleophilic addition reactions</p>  |
| 5.                    | OCT<br>2022 | 2L                     | <p><b>3.3</b> Reactions of aldehydes and ketones with <math>NaHSO_3</math>, <math>HCN</math>, <math>RMgX</math>, alcohol, amine, phenyl hydrazine, 2, 4-Dinitrophenyl hydrazine, <math>LiAlH_4</math> and <math>NaBH_4</math>. <b>3.4</b> Mechanisms of following reactions: Benzoin condensation, Knoevenagel condensation, Claisen-Schmidt and Cannizzaro reaction. <b>3.5</b> Keto-enol</p>  |

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|    |                 | 2L | tautomerism: Mechanism of acid and base catalysed enolization 3.6 Active methylene compounds: Acetylacetone, ethyl acetoacetate diethyl malonate, stabilised enols. Reactions of Acetylacetone and ethyl acetoacetate (alkylation, conversion to ketone, mono- and dicarboxylic acid)  |
| 6. | JUN-SEP<br>2022 |    | <p><b>Practicals-</b></p> <p>1. <b>Organic preparation and their purification:</b> Use 0.5-1.0g of the organic compound. Purify the product by recrystallization. Report theoretical yield, percentage yield and melting point of the purified product.</p> <p>2. <b>Preparation of compounds given in syllabus by various methods like Distillation , Purification, Recrystallization, etc.</b></p> |



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| SEMESTER IV |             |                  |   |
|-------------|-------------|------------------|---|
| Sr. No.     | Month       | Available Period | Topic/Sub Topic to be Taught  |
| 1.          | NOV<br>2023 | 12L              | <p><b>PAPER-I</b></p> <p><b>3.1 Carboxylic Acids and their Derivatives</b></p> <p>3.1.1. Nomenclature, structure and physical properties, acidity of carboxylic acids, effects of substituents on acid strength of aliphatic and aromatic carboxylic acids. 3.1.2. Preparation of carboxylic acids: oxidation of alcohols and alkyl benzene, carbonation of Grignard and hydrolysis of nitriles. 3.1.3. Reactions: Acidity, salt formation, decarboxylation, Reduction of carboxylic acids with <math>\text{LiAlH}_4</math>, diborane, Hell-Volhard-Zelinsky reaction, Conversion of carboxylic acid to acid chlorides, esters, amides and acid anhydrides and their relative reactivity. 3.1.4. Mechanism of nucleophilic acyl substitution and acid-catalysed nucleophilic acyl substitution. Interconversion of acid derivatives by nucleophilic acyl substitution. 3.1.5. Mechanism of Claisen condensation and Dieckmann condensation.</p> |
| 2.          | DEC<br>2023 | 4L               | <p><b>3.2 Sulphonic acids</b></p> <p>Nomenclature, preparation of aromatic sulphonic acids by sulphonation of benzene (with mechanism), toluene and naphthalene, Reactions: Acidity of arene sulfonic acid, Comparative acidity of carboxylic acid and sulfonic acids. Salt formation, desulphonation. Reaction with alcohol, phosphorous pentachloride, IPSO substitution.</p>   |
| 3.          | JAN<br>2023 | 6L               | <p><b>PAPER-II</b></p> <p><b>Nitrogen containing compounds and heterocyclic compounds:</b></p> <p><b>3.1 Amines</b></p> <p>Nomenclature, effect of substituent on basicity of aliphatic and aromatic amines; 3.1.1. Preparation: Reduction of aromatic nitro compounds using catalytic hydrogenation, chemical reduction using <math>\text{Fe-HCl}</math>, <math>\text{Sn-HCl}</math>, <math>\text{Zn-acetic acid}</math>, reduction of nitriles, ammonolysis of</p>  |
| 4.          | FEB<br>2023 | 6L               | <p>halides, reductive amination, Hofmann bromamide reaction. 3.1.2. Reactions- Salt Formation, N-acylation, N-alkylation, Hofmann's exhaustive methylation (HEM), Hofmann-elimination reaction, reaction with nitrous acid, carbylamine reaction, Electrophilic substitution in aromatic amines: bromination, nitration and sulphonation.</p>   |



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| 5. | MAR<br>2023         | 12L | <p><b>3.3 Heterocyclic Compounds</b></p> <p><b>3.3.1.</b> Classification, nomenclature, electronic structure, aromaticity in 5-numbered and 6-membered rings containing one heteroatom; <b>3.3.2.</b> Synthesis of Furan, Pyrrole (Paal-Knorr synthesis, Knorr pyrrole synthesis, and Hantzsch synthesis), Thiophene, Pyridine (Hantzsch synthesis), <b>3.3.3.</b> Reactivity of furan, pyrrole and thiophene towards electrophilic substitution reactions on the basis of stability of intermediate and of pyridine on the basis of electron distribution. Reactivity of pyridine towards nucleophilic substitution on the basis of electron distribution. <b>3.3.4.</b> Reactions of furan, pyrrole and thiophene: halogenation, nitration, sulphonation, Vilsmeier-Haack reaction, Friedel-Crafts reaction. Furan: Diels-Alder reaction, Ring opening. Pyrrole: Acidity and basicity of pyrrole. Comparison of basicity of pyrrole and pyrrolidine. <b>3.3.5.</b> Pyridine: Basicity. Comparison of basicity of pyridine, pyrrole and piperidine. Sulphonation of pyridine (with and without catalyst), reduction and action of sodamide (Chichibabin reaction).</p> |
| 6. | NOV-<br>FEB<br>2023 |     | <p><b>Practicals-</b></p> <p><b>1. Organic preparation and their purification:</b> Use 0.5-1.0g of the organic compound. Purify the product by recrystallization. Report theoretical yield, percentage yield and melting point of the purified product.</p> <p><b>2. Preparation of compounds given in syllabus by various methods like Distillation , Purification, Recrystallization, etc.</b></p> <p><b>3. Identification of given compound</b></p>  |



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Teaching Plan: Academic Year -2022-23

Name of the Faculty : - Aniket P. Gaikwad

Class: - T.Y.BSC (chemistry)

Sub: - Organic Chemistry

Department: CHEMISTRY

| SEMESTER V |             |                  |   |
|------------|-------------|------------------|---|
| Sr. No.    | Month       | Available Period | Topic/Sub Topic to be Taught  |
| 1.         | JUN<br>2022 | 15L              | <p><u>Subject: Organic chemistry ( SEM - V)</u></p> <p style="text-align: center;"><b>Unit II</b></p> <p><b>2.1 Stereochemistry I</b> <span style="float: right;"><b>5L</b></span><br/>           2.1.1 Molecular chirality and elements of symmetry: Mirror plane symmetry, inversion center, roation-refelction (alternating) axis. 2.1.2 Chirality of compounds without a stereogenic centre: cumulates and biphenyls.</p> <p><b>2.2 Agrochemicals</b> <span style="float: right;"><b>4L</b></span><br/>           2.2.1 General introduction &amp; scope, meaning &amp; examples of insecticides, herbicides, fungicide, rodenticide, pesticides, plant growth regulators. 2.2.2 Advantages &amp; disadvantages of agrochemical 2.2.3 Synthesis &amp; application of IAA ( indole Acetic acid) &amp; Endosulphan, 2.2.4 Biopesticides – Neem oil &amp; Karanj oil.</p> <p><b>2.3 Heterocyclic chemistry:</b> <span style="float: right;"><b>6L</b></span><br/>           2.3.1 Reactivity of pyridine-N-oxide, quinolone and iso-quinoline. 2.3.2 Preparation of pyridine-N-oxide, quinoline (Skraup synthesis) and iso-quinoline (Bischler-Napieralski synthesis). 2.3.3 Reactions of pyridine-N-oxide: halogenation, nitration and reaction with <math>\text{NaNH}_2/\text{liq. NH}_3</math>, <math>n\text{-BuLi}</math>. 2.3.4 Reactions of quinoline and isoquinoline; oxidation, reduction, nitration, halogenation and reaction with <math>\text{NaNH}_2/\text{liq. NH}_3</math>, <math>n\text{-BuLi}</math>.</p> |
| 2.         | JUL<br>2022 | 15L              | <p style="text-align: center;"><b>Unit III</b></p> <p><b>3.1 IUPAC</b> <span style="float: right;"><b>5L</b></span><br/>           IUPAC nomenclature of the following classes of compounds (including compounds upto 2 substituents / functional groups):<br/>           3.1.1 Bicyclic compounds – spiro, fused and bridged (upto 11 carbon atoms) – saturated and unsaturated compounds. 3.1.2 Biphenyls<br/>           3.1.3 Cummulenes with upto 3 double bonds<br/>           3.1.4 Quinolines and isoquinolines</p> <p><b>3.2 Organic Synthesis</b> <span style="float: right;"><b>10L</b></span><br/>           3.2.1 Introduction: Linear and convergent synthesis, criteria for an ideal synthesis, concept of chemoselectivity and regioselectivity with examples, calculation of yields.<br/>           3.2.2 Multicomponent Synthesis: Mannich reaction and Biginelli reaction. Synthesis with examples (no mechanism)<br/>           3.2.3 Green synthesis:<br/>           Introduction: Twelve principles, concept of atom economy and E-factor, calculations and their significance, numerical examples.<br/>           i) Green reagents: dimethyl carbonate.<br/>           ii) Green starting materials : D-glucose<br/>           iii) Green solvents : supercritical <math>\text{CO}_2</math><br/>           iv) Green catalysts: Bio catalysts.</p> 3.2.4 Planning of organic synthesis   |

|    |             |     |  |
|----|-------------|-----|--|
|    |             |     | <ul style="list-style-type: none"> <li>i) m-nitrophenol</li> <li>ii) o-chlorobenzoic acid</li> <li>iii) Alcohols (primary / secondary / tertiary) using Grignard reagents.</li> <li>iv) alkanes (using organolithium compounds)</li> </ul>   |
| 3. | AUG<br>2022 | 15L | <p style="text-align: center;"><b>Unit I</b></p> <p style="text-align: right;"><b>10L</b></p> <p><b>1.1 Mechanism of organic reactions</b></p> <p>1.1.1 The basic terms &amp; concepts, bond fission, reaction intermediates electrophiles &amp; nucleophiles, Ligand, Base Electrophilicity vs. acidity &amp; nucleophilicity vs basicity.</p> <p>1.1.2 Neighbouring group participation in nucleophilic substitution reactions: participation of lone pair of electrons, kinetics and stereochemical outcome. 1.1.3 Acyl nucleophilic substitution (Tetrahedral mechanism): Acid catalyzed esterification of carboxylic acids (<math>A_{AC}2</math>) and base promoted hydrolysis of esters (<math>B_{AC}2</math>).</p> <p>1.1.4 Pericyclic reactions, classification and nomenclature</p> <p>1.1.4.1 Electro cyclic reactions (ring opening and ring closing), cycloaddition, sigma tropic rearrangement, group transfer reactions, cheletropic reaction (definition and one example of each type)</p> <p>1.1.4.2 Pyrolytic elimination: Cope, Chugaev, pyrolysis of acetates</p> <p><b>1.2 Photochemistry</b> <span style="float: right;"><b>5L</b></span></p> <p>1.2.1 Introduction: Difference between thermal and photochemical reactions. Jablonski diagram, singlet and triplet states, allowed and forbidden transitions, fate of excited molecules, photosensitization.</p> <p>1.2.2 Photochemical reactions of olefins: photoisomerisation, photochemical rearrangement of 1,4-dienes (<math>di-\pi</math> methane)</p> <p>1.2.3 Photochemistry of carbonyl compounds: Norrish I, Norrish II cleavages. Photoreduction (e.g. benzophenone to benzpinacol)</p>            |
| 4. | SEP<br>2022 | 8L  | <p style="text-align: center;"><b>Unit IV</b></p> <p style="text-align: right;"><b>5L</b></p> <p><b>4.1 Spectroscopy I</b></p> <p>4.1.1 Introduction: Electromagnetic spectrum, units of wavelength and frequency</p> <p>4.1.2 UV – Visible spectroscopy: Basic theory, solvents, nature of UV-Visible spectrum, concept of chromophore, auxochrome, bathochromic and hypsochromic shifts, hyperchromic and hypochromic effects, chromophore-chromophore and chromophore-auxochrome interactions.</p> <p>4.1.3 Mass spectrometry: Basic theory. Nature of mass spectrum. General rules of fragmentation. Importance of molecular ion peak, isotopic peaks, base peak, nitrogen rule, rule of 13 for determination of empirical formula and molecular formula. Fragmentation of alkanes and aliphatic carbonyl compounds.</p> <p><b>4.2 Natural Products</b> <span style="float: right;"><b>10L</b></span></p> <p>4.2.1. Terpenoids: Introduction, Isoprene rule, special isoprene rule and the gem-dialkyl rule.</p> <p>4.2.2 Citral:</p> <ul style="list-style-type: none"> <li>a) Structural determination of citral.</li> <li>b) Synthesis of citral from methyl heptenone</li> <li>c) Isomerism in citral. (cis and trans form).</li> </ul> <p>4.2.3. Alkaloids: Introduction and occurrence. Hofmann's exhaustive methylation and degradation in: simple open chain and N – substituted monocyclic amines.</p> <p>4.2.4 Nicotine:</p> <ul style="list-style-type: none"> <li>a) Structural determination of nicotine. (Pinner's work included)</li> <li>b) Synthesis of nicotine from nicotinic acid</li> <li>c) Harmful effects of nicotine.</li> </ul> <p>4.2.5 Hormones:</p> |
|    | OCT<br>2022 | 7L  |  |

JUN-  
SEP  
2022

Introduction, structure of adrenaline (epinephrine), physiological action of adrenaline.

Synthesis of adrenaline from

- a) Catechol
- b) p-hydroxybenzaldehyde (Ott's synthesis)

**Practicals**

**II) Binary Mixture Separation & identification (Solid + Solid)**

(2.0 g mixture to be given)

1. Minimum six mixtures to be completed by the learners.
2. Components of the mixture should include water soluble and water insoluble acids (carboxylic acid), water insoluble phenols ( $\alpha$ -naphthol,  $\beta$ -naphthol), water insoluble bases (nitroanilines), water soluble (urea and thiourea) and water insoluble neutrals (Aromatic hydrocarbons, m- dinitrobenzene, anilides, amides)
3. A sample of binary mixture to be given (<1.0 gram) to the learners for detection of chemical type of mixture. After correct determination of the chemical type, the fixing reagent should be decided by the learners for separation.
4. Follow separation scheme with the bulk sample of the binary mixture.
5. After separation of the components into independent components A and B,
  - a. One component (decided by the examiner) is to be analyzed and identified by chemical method with melting point and also by IR spectroscopy. (This component is not to be weighed).
  - b. The other component is to be purified, dried, weighed and melting point is to be determined.



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Head

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Teaching Plan: Academic Year -2022-23

Name of the Faculty : - Aniket P. Gaikwad

Class: - T.Y.BSC (chemistry)

Sub: - Organic Chemistry

Department: CHEMISTRY

| SEMESTER VI |          |                  |   |
|-------------|----------|------------------|---|
| Sr. No.     | Month    | Available Period | Topic/Sub Topic to be Taught  |
| 1.          | NOV 2022 | 3L               | <p><b>Unit IV</b></p> <p><b>4.1 Polymer</b> <span style="float: right;"><b>8L</b></span></p> <p>4.1.1 Introduction: terms monomer, polymer, homopolymer, copolymer, thermoplastics and thermosets.</p>  |
| 2.          | DEC 2022 | 12L              | <p>4.1.2 Addition polymers: polyethylene, polypropylene, teflon, polystyrene, PVC, uses.</p> <p>4.1.3 Condensation polymers: polyesters, polyamides, polyurethanes, polycarbonates, phenol formaldehyde resins. Uses</p> <p>4.1.4 Stereochemistry of polymers: Tacticity, Mechanism of stereochemical control of polymerization using Ziegler Natta catalysts.</p> <p>4.1.5 Natural and synthetic rubbers: Polymerisation of isoprene: 1,2 &amp; 1,4 addition (cis and trans), Styrene butadiene copolymer.</p> <p>4.1.6 Additives to polymers: Plasticisers, stabilizers and fillers.</p> <p>4.1.7 Biodegradable polymers: Classification and uses. Polylactic acid structure, properties and use for packaging and medical purposes.</p> <p><b>4.2 Catalysts and Reagents</b> <span style="float: right;"><b>7L</b></span></p> <p>Study of the following catalysts and reagents with respect to functional group transformations and selectivity (no mechanism).</p> <p><b>4.2.1 Catalysts:</b> Catalysts for hydrogenation:</p> <ol style="list-style-type: none"> <li>Raney Nickel</li> <li>Pt and PtO<sub>2</sub> (C=C, CN, NO<sub>2</sub>, aromatic ring)</li> <li>Pd/C: C=C, COCl → CHO (Rosenmund)</li> <li>Lindlar catalyst: alkynes</li> </ol> <p><b>4.2.2 Reagents:</b></p> <ol style="list-style-type: none"> <li>LiAlH<sub>4</sub> (reduction of CO, COOR, CN, NO<sub>2</sub>)</li> <li>NaBH<sub>4</sub> (reduction of CO)</li> <li>SeO<sub>2</sub> (oxidation of CH<sub>2</sub> alpha to CO)</li> <li>mCPBA (epoxidation of C=C)</li> <li>NBS (allylic and benzylic bromination)</li> </ol> |
| 3.          | JAN 2023 | 15L              | <p><b>Unit II</b></p> <p><b>2.1 Molecular Rearrangement</b> <span style="float: right;"><b>5L</b></span></p> <p>Mechanism of the following rearrangements with examples and stereochemistry wherever applicable.</p> <ol style="list-style-type: none"> <li>2.1.1 Migration to the electron deficient carbon: Pinacol-pinacolone rearrangement.</li> <li>2.1.2 Migration to the electron deficient nitrogen: Beckmann rearrangement.</li> <li>2.1.3 Migration involving a carbanion: Favorski rearrangement.</li> <li>2.1.4 Name reactions: Michael addition, Wittig reaction.</li> </ol>   |

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|    |             |     | <p><b>2.2 Carbohydrates</b> <span style="float: right;"><b>10L</b></span></p> <p>2.2.1 Introduction: classification, reducing and non-reducing sugars, DL, Notification</p> <p>2.2.2 Structures of monosaccharides: Fischer projection (4-6 carbon monosaccharides) and Haworth formula (furanose and pyranose forms of pentoses and hexoses)</p> <p>Interconversion: open chain and Haworth forms of monosaccharides with 5 and 6 carbons. Chair conformation with stereochemistry of D-glucose, Stability of chair form of D-glucose</p> <p>2.2.3 Stereoisomers of D-glucose: enantiomer, diastereomers, anomers, epimers.</p> <p>2.2.4 Mutarotation in D-glucose with mechanism</p> <p>2.2.5 Chain lengthening &amp; shortening reactions: Modified Kiliani-Fischer synthesis (D-arabinose to D-glucose and D-mannose), Wohl method (D-glucose to D-arabinose)</p> <p>2.2.6 Reactions of D-glucose and D-fructose:<br/> (a) Osazone formation (b) reduction: <math>\text{H}_2/\text{Ni}</math>, <math>\text{NaBH}_4</math> (c) oxidation: bromine water, <math>\text{HNO}_3</math>, <math>\text{HIO}_4</math> (d) acetylation (e) methylation: (d) and (e) with cyclic pyranose forms</p> <p>2.2.7 Glycosides: general structure</p>  |
| 4. | FEB<br>2023 | 15L | <p><b>Unit I</b></p> <p><b>1.1 Stereochemistry II</b> <span style="float: right;"><b>10L</b></span></p> <p>1.1.1 Stereoselectivity and stereospecificity : Idea of enantioselectivity (ee) and diastereoselectivity<br/> (de) , Topicity : enantiotopic and diastereotopic atoms, groups and faces.</p> <p>1.1.2 Stereochemistry of –<br/> i) Substitution reactions : <math>\text{S}_{\text{N}}</math> (reaction of alcohol with thionyl chloride)<br/> ii) Elimination reactions: <math>\text{E}_2</math>-Base induced dehydrohalogenation of 1-bromo-1,2-diphenylpropane.<br/> iii) Addition reactions to olefins:<br/> a) bromination (electrophilic anti addition)<br/> b) syn hydroxylation with <math>\text{O}_3/\text{O}_4</math> and <math>\text{KMnO}_4</math><br/> c) epoxidation followed by hydrolysis.</p> <p><b>1.2 Amino acids &amp; Proteins</b> <span style="float: right;"><b>5L</b></span></p> <p>1.2.1 <math>\alpha</math>-Amino acids: General Structure, configuration, and classification based on structure and nutrition. Properties: pH dependency of ionic structure, isoelectric point and zwitter ion. Methods of preparations: Strecker synthesis, amidomalonnate synthesis, Erlenmeyer azalactone synthesis.</p> <p>1.2.2 Polypeptides and Proteins: Polypeptides: Peptide bond. Nomenclature and representation of polypeptides (di- and tri-peptides) with examples.</p> |

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| 5. | MAR<br>2023         | 15L | <p style="text-align: center;"><b>Unit III</b></p> <p><b>3.1 Spectroscopy II</b> <span style="float: right;">10L</span></p> <p><b>3.1.1</b> IR Spectroscopy: Basic theory, nature of IR spectrum, selection rule, fingerprint region.</p> <p><b>3.1.2</b> PMR Spectroscopy: Basic theory of NMR, nature of PMR spectrum, chemical shift (<math>\delta</math> unit), standard for PMR, solvents used. Factors affecting chemical shift: (1) inductive effect (2) anisotropic effect (with reference to C=C, C=C, C=O and benzene ring). Spin-spin coupling and coupling constant. application of deuterium exchange. Application of PMR in structure determination.</p> <p><b>3.1.3</b> Spectral characteristics of following classes of organic compounds, including benzene and monosubstituted benzenes, with respect to IR and PMR: (1) alkanes (2) alkenes (3) alkynes (4) haloalkanes (5) alcohols (6) carbonyl compounds (7) ethers (8) amines (broad regions characteristic of different groups are expected). Problems of structure elucidation of simple organic compounds using individual or combined use of UV-Vis, IR, Mass and NMR spectroscopic technique are expected. (Index of hydrogen deficiency should be the first step in solving the problems).</p> <p><b>3.2 Nucleic Acids</b> <span style="float: right;">5L</span></p> <p>Controlled hydrolysis of nucleic acids. sugars and bases in nucleic acids. Structures of nucleosides and nucleotides in DNA and RNA. Structures of nucleic acids (DNA and RNA) including base pairing modified solid phase nucleotide synthesis.</p> |
| 6. | JAN-<br>MAR<br>2023 |     | <p><b>Practical-</b></p> <p><b>Chemistry Practicals :- I) Binary Mixture Separation: Separation of mixture containing (VL + NVL) &amp; (VL+ S) components.</b></p> <ol style="list-style-type: none"> <li>1. Minimum Six mixtures to be completed by the learners.</li> <li>2. Components of the liq-liq mixture should include volatile liquids like acetone, methylacetate, ethylacetate, isopropylalcohol, methyl alcohol, ethyl alcohol, chloroform and non- volatile liquids like chlorobenzene, bromobenzene, aniline, N,N-dimethylaniline, acetophenone, nitrobenzene, ethyl benzoate.</li> <li>3. Components of the liq- solid mixture should include volatile liquids like acetone, methylacetate, ethylacetate, ethyl alcohol, methyl alcohol, isopropylalcohol, chloroform and solids such as water insoluble acids, phenols, bases, neutral.</li> <li>4. A sample of the mixture one ml to be given to the learner for detection of the physical type of the mixture.</li> <li>5. After correct determination of physical type, separation of the binary mixture to be carried out by distillation method using microscale technique.</li> <li>6. After separation into component A and component B, the physical constants and the yield of the separated components is to be determined.</li> </ol>   |

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Teaching Plan

Academic Year -2023 -2023

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class- F.Y.B.Sc. Chemistry

Semester: I

Name of the Professor: Bhagat V.S.

Paper -I (UNIT.II)

| Sr.No.                      | Month               | Period/<br>Lectures | Topic/Sub topic to be taught   |
|-----------------------------|---------------------|---------------------|--|
| <b>SEMESTER I – Paper I</b> |                     |                     |  |
| 1                           | Aug-<br>Sep<br>2022 | 10L                 | <p>2.1 Atomic structure: (10L)<br/>(Qualitative treatment only; it is expected that the learner knows the mathematical statements and understands their physical significance after completing this topic. No derivations of the mathematical equations required)</p> <p>a) <b>Historical perspectives of the atomic structure; Rutherford's Atomic Model, Bohr's theory, its limitations and atomic spectrum of hydrogen atom. Structure of hydrogen atom.</b></p> <p>Rutherford's Atomic structure<br/>Drawbacks Rutherford's Atomic structure<br/>Bohr's theory<br/>Atomic spectrum of hydrogen atom<br/>Limitations of Bohr's Theory<br/>Dual Nature of Electrons-Particles waves<br/>Heisenberg's uncertainty Principle</p> <p><b>Hydrogenic atoms:</b><br/>1. Simple principles of quantum mechanics;<br/>a) Atomic orbitals</p> <ul style="list-style-type: none"><li>• Hydrogenic energy levels</li><li>• Shells, subshells and orbitals</li></ul> |



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|                              |              |      | <ul style="list-style-type: none"> <li>• <b>Electron spin</b></li> <li>• <b>Radial shapes of orbitals</b></li> <li>• <b>Radial distribution function</b></li> <li>• <b>Angular shapes of orbitals</b></li> </ul> <ol style="list-style-type: none"> <li>1. Many Electron Atoms <ol style="list-style-type: none"> <li>i) Penetration and shielding</li> <li>ii) Effective nuclear charge</li> </ol> </li> <li>2. Aufbau principle</li> </ol>   |
| 2                            | Sep-2022     | 5L   | <p><b>2.2: Periodic Table and periodicity: (5L)</b></p> <p>Long form of Periodic Table; Classification for elements as main group, transition and inner transition elements; Periodicity in the following properties: Atomic and ionic size; electron gain enthalpy; ionization enthalpy, effective nuclear charge (Slater's rule); electronegativity; Pauling, Mulliken and Alred Rochow electronegativities (Numerical problems expected, wherever applicable.)</p>  |
| <b>SEMESTER I – Paper II</b> |              |      |  |
| 1                            | Oct-Nov-2022 | 10 L | <p><b>2.0 Comparative chemistry of Main Group Elements: (15L)</b></p> <p>Metallic and non-metallic nature,<br/> <b>oxidation states</b> 1. oxidation states of p-blocks Elements<br/> 2 Oxidation states and Inert pair effect</p> <p><b>Electronegativity:</b> 1. Atomic Size<br/> 2. Oxidation state<br/> 3. Hybridization of the central atom<br/> 4. Partial Ionic charge</p> <p><b>Anomalous behavior of second period elements</b><br/> [ Lithium, Beryllium, Boron, Carbon, Nitrogen, Oxygen, Flourine ]</p> <p><b>Allotropy</b><br/> Enantiotropy, Monotropy, Dynamic Allotropy<br/> Allotropes of group 13 elements<br/> Allotropes Forms of group 13 elements</p> <ul style="list-style-type: none"> <li>• Allotropes of carbon</li> </ul> |

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|                                  |              |    | <ul style="list-style-type: none"> <li>Allotropes of Silicon</li> <li>Allotropes of Phosphours</li> </ul> <p>Allotropes Forms of group 16 elements</p> <ul style="list-style-type: none"> <li>Allotropes of Sulphur</li> <li>Allotropes of Selenium, Tellurium ,and Polonium</li> </ul> <p><b>Catenation (Self Linkage)</b></p> <p><b>Diagonal relationship</b></p> <ul style="list-style-type: none"> <li>Diagonal relationship between Li and Mg</li> <li>Diagonal relationship between Be and Al</li> <li>Diagonal relationship between B and Si</li> </ul>   |
| 2                                | Nov-2022     | 5L | <p><b>A. Comparative chemistry of carbides, nitrides, oxides and hydroxides of group I and group II elements.</b></p> <p><b>B. Some important compounds-</b><br/> <math>\text{NaHCO}_3</math>, <math>\text{Na}_2\text{CO}_3</math>, <math>\text{NaCl}</math>, <math>\text{NaOH}</math>, <math>\text{CaO}</math>, <math>\text{CaCO}_3</math>; oxides of carbon, oxides and oxyacids of sulphur and nitrogen with respect to environmental aspects.</p>  |
| <b>CHEMISTRY LAB: Semester I</b> |              |    |  |
| 1                                | Sep-Oct-2022 |    | <p><b>Unit II: Inorganic Chemistry</b></p> <ol style="list-style-type: none"> <li>Commercial analysis of (any two) <ol style="list-style-type: none"> <li>Mineral acid</li> <li>Organic acid</li> <li>Salt of weak acid and strong base.</li> </ol> </li> <li>Titration using double indicator: analysis of solution of <math>\text{Na}_2\text{CO}_3</math> and <math>\text{NaHCO}_3</math>.</li> <li>Gravimetric analysis <ol style="list-style-type: none"> <li>To determine the percent purity of sample of <math>\text{BaSO}_4</math> containing <math>\text{NH}_4\text{Cl}</math></li> <li>To determine the percent purity of <math>\text{ZnO}</math> containing <math>\text{ZnCO}_3</math>.</li> </ol> </li> </ol> |

Subject Teacher

Signature

Head of the dept.

Principal

**PRINCIPAL**

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Teaching Plan

Academic Year -2023 -2023

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class- F.Y.B.Sc. Chemistry

Semester: II

Name of the Professor: Bhagat V.S.

| Sr.No.                   | Month                 | Period/<br>Lectures | Topic/Sub topic to be taught   |
|--------------------------|-----------------------|---------------------|--|
| <b>Paper I : Unit II</b> |                       |                     |  |
| 1                        | Dec2022-<br>Jan -2023 | 7                   | <b>2.1 Concept of Qualitative Analysis:</b><br><br>a) Testing of Gaseous Evolutes, Role of Papers impregnated with Reagents in qualitative analysis (with reference to papers impregnated with starch iodide, potassium dichromate, lead acetate, dimethylglyoxime and oxine reagents).<br><br>b) Precipitation equilibria, effect of common ions, uncommon ions, oxidation states, buffer action, complexing agents on precipitation of ionic compounds. (Balanced chemical equations and numerical problems expected.) |
| 2                        | Jan -Feb-<br>2023     | 8                   | <b>2.2 Acid Base Theories:</b><br>Arrhenius, Lowry- Bronsted, Lewis, Solvent – Solute concept of acids and bases, Hard and Soft acids and bases. Applications of HSAB<br>Applications of acid base chemistry in:<br>i) Understanding organic reactions like Friedel Craft's (acylation/alkylation)   |

reaction

- ii) Volumetric analysis with special reference to calculation of titration curve involving strong acid and strong base.

**SEMESTER II – Paper II Unit II**

|   |              |   |  |
|---|--------------|---|--|
| 1 | Feb-Mar-2023 | 7 | <b>2.1 : Chemical Bond and Reactivity:</b><br>Types of chemical bond, comparison between ionic and covalent bonds, polarizability (Fajan's Rule), shapes of molecules, Lewis dot structure, Sidgwick Powell Theory, basic VSEPR theory for AB <sub>n</sub> type molecules with and without lone pair of electrons, isoelectronic principles, applications and limitations of VSEPR theory.   |
| 2 | Mar-2023     | 8 | <b>2.2 : Oxidation Reduction Chemistry:</b> <ul style="list-style-type: none"><li>a) Reduction potentials</li><li>b) Redox potentials: half reactions; balancing redox equations.</li><li>c) Redox stability in water<ul style="list-style-type: none"><li>i) Latimer and Frost Diagrams</li><li>ii) pH dependence of redox potentials.</li></ul></li><li>d) Applications of redox chemistry<ul style="list-style-type: none"><li>i) Extraction of elements: (example: isolation of copper by auto reduction)</li><li>ii) Redox reagents in Volumetric analysis: a) I<sub>2</sub>; b) KMnO<sub>4</sub></li><li>iii) Titration curves: i) single electron systems (example Ce(IV) against Fe(II)); and ii) Multi electron systems as in KMnO<sub>4</sub> against Fe(II)</li></ul></li></ul> |

## CHEMISTRY Practical (LAB): Semester II

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|---|--------------------------|--|
| 1 | Feb -<br>March -<br>2023 | <p><b>1. Qualitative analysis: (at least 4 mixtures to be analyzed)</b><br/>Semi-micro inorganic qualitative analysis of a sample containing two cations and two anions.<br/>Cations (from amongst):<br/><math>\text{Pb}^{2+}</math>, <math>\text{Ba}^{2+}</math>, <math>\text{Ca}^{2+}</math>, <math>\text{Sr}^{2+}</math>, <math>\text{Cu}^{2+}</math>, <math>\text{Cd}^{2+}</math>, <math>\text{Fe}^{2+}</math>, <math>\text{Ni}^{2+}</math>, <math>\text{Mn}^{2+}</math>, <math>\text{Mg}^{2+}</math>, <math>\text{Al}^{3+}</math>, <math>\text{Cr}^{3+}</math>, <math>\text{K}^+</math>, <math>\text{NH}_4^+</math><br/>Anions ( From amongst):<br/><math>\text{CO}_3^{2-}</math>, <math>\text{S}^{2-}</math>, <math>\text{SO}_3^{2-}</math>, <math>\text{NO}_2^-</math>, <math>\text{NO}_3^-</math>, <math>\text{Cl}^-</math>, <math>\text{Br}^-</math>, <math>\text{I}^-</math>, <math>\text{SO}_4^{2-}</math>, <math>\text{PO}_4^{3-}</math><br/>(Scheme of analysis should avoid use of sulphide ion in any form for precipitation / separation of cations.)</p> <p><b>2. Redox Titration:</b> To determine the percentage of copper(II) present in a given sample by titration against a standard aqueous solution of sodium thiosulfate (iodometry titration)</p> |
|---|--------------------------|--|

Subject Teacher



PP Mahajan  
Principal

I/C PRINCIPAL  
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ACS College, Karamboli,  
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**S.M.D.L. Arts, Science & Commerce College, Kalamboli. (Navi Mumbai)**  
**Teaching Plan: Academic Year: 2022-2023**

Name of The Faculty : - Mr. Palkar S.R.  
 Class :- S.Y.B.Sc.(P)  
 Subject :- Physical Chemistry

| Sr. No.             | Month           | Available Period | Topic/Sub. Topic to be Taught  |
|---------------------|-----------------|------------------|--|
| <b>SEMESTER-III</b> |                 |                  |  |
| 1                   | June, 2022      | 08               | <b>Paper-I</b><br><b>1.1 Chemical Thermodynamics-II(8L)</b><br>1.1.1 Free Energy Functions: Helmholtz Free Energy, Gibb's Free Energy, Variation of Gibb's free energy with Pressure and Temperature.<br>1.1.2 Gibbs-Helmholtz equation, van't Hoff reaction isotherm and van't Hoff reaction isochore. (Numericals expected).<br>1.1.3 Thermodynamics of Open System: Partial Molal Properties, Chemical Potential and its variation with Pressure and Temperature, Gibb's Duhem equation.<br>1.1.4 Concept of Fugacity and Activity  |
| 2                   | July, 2022      | 07               | <b>1.2 Electrochemistry: (7L)</b><br>1.2.1 Conductivity, equivalent and molar conductivity and their variation with dilution for weak and strong electrolytes.<br>1.2.2 Kohlrausch law of independent migration of ions.<br>1.2.3 Applications of conductance measurements: determination of degree of ionization and ionization constant of weak electrolyte, solubility and solubility product of sparingly soluble salts, ionic product of water. (Numericals expected).<br>1.2.4 Transference number and its experimental determination using Moving boundary method. (Numericals expected). Factors affecting transference number.      |
| 3                   | August, 2022    | 07               | <b>Paper-II</b><br><b>1.1 Chemical Kinetics-II (7L)</b><br>1.1.1 Types of Complex Chemical reactions: Reversible or opposing, consecutive and parallel reactions (No derivations, only examples expected),<br>Thermal chain reactions: H. and Br. reaction. (only steps involved, no kinetic expression expected).<br>1.1.2 Effect of temperature on the rate of reaction, Arrhenius equation, Concept of energy of activation (Ea). (Numericals expected).<br>1.1.3 Theories of reaction rates: Collision theory and activated complex theory of bimolecular reactions. Comparison between the two theories<br>(Qualitative treatment only) |
| 4                   | September, 2022 | 08               | <b>1.2 Solutions: (8 L)</b><br>1.2.1 Thermodynamics of ideal solutions: Ideal solutions and Raoult's law, deviations from Raoult's law-non-ideal solutions. Vapour pressure-composition and temperature -composition curves of ideal and non-ideal solutions. Distillation of solutions.Lever rule.Azeotropes.<br>1.2.2 Partial miscibility of liquids: Critical solution temperature;   |

|             |                |    |   |
|-------------|----------------|----|---|
|             |                |    | effect of impurity on partial miscibility of liquids with respect to Phenol-Water, Triethanolamine – Water and Nicotine – Water systems<br>1.2.3 Immiscibility of liquids- Principle of steam distillation.<br>1.2.4 Nernst distribution law and its applications, solvent extraction.  |
| 5           | October, 2022  | -- | Practical & Theory Examination  |
| SEMESTER-IV |                |    |   |
| 1           | November, 2022 | 08 | <b>Paper-I</b><br><b>1.1 Electrochemistry-II: (8 L)</b><br>1.1.1 Electrochemical conventions, Reversible and irreversible cells.<br>1.1.2 Nernst equation and its importance, Types of electrodes, Standard electrode potential, Electrochemical series (Numericals expected).<br>1.1.3 Thermodynamics of a reversible cell, calculation of thermodynamic properties: $\Delta G$ , $\Delta H$ and $\Delta S$ from EMF data. (Numericals expected)<br>1.1.4 Calculation of equilibrium constant from EMF data. (Numericals expected)<br>1.1.5 Concentration cells with transference and without transference. Liquid junction potential and salt bridge.<br>1.1.6 pH determination using hydrogen electrode and quinhydrone electrode. (Numericals expected) |
| 2           | December, 2022 | 07 | <b>1.2 Phase Equilibria: (7L)</b><br>1.2.1 Phases, components and degrees of freedom of a system, criteria of phase equilibrium. Gibbs Phase Rule and its thermodynamic derivation.<br>1.2.2 Derivation of Clausius – Clapeyron equation and its importance in phase equilibria. (numericals expected)<br>1.2.3 Phase diagrams of one-component systems (water and sulphur).<br>1.2.4 Two component systems involving eutectics, congruent and incongruent melting points (lead-silver system).   |
| 3           | January, 2023  | 07 | <b>Paper-II 1.1 Solid State: (7L)</b><br>1.1.1 Recapitulation of laws of crystallography and types of crystals<br>1.1.2 Characteristics of simple cubic, face centered cubic and body centered cubic systems, interplanar distance in cubic lattice (only expression for ratio of interplanar distances are expected)<br>1.1.3 Use of X-rays in the study of crystal structure, Bragg's equation (derivation expected), X-rays diffraction method of studying crystal lattice structure, structure of NaCl and KCl. Determination of Avogadro's number (Numericals expected)  |
| 4           | February, 2023 | 08 | <b>1.2 Catalysis: (8 L)</b> 1.2.1 Types of catalysis, catalytic activity, specificity and selectivity, inhibitors, catalyst poisoning and deactivation<br>1.2.2 Mechanisms and kinetics of acid-base catalyzed reactions, effect of pH.<br>1.2.3 Mechanisms and kinetics of enzyme catalyzed reactions (Michaelis-Menten equation)<br>1.2.4 Effect of particle size and efficiency of nanoparticles as catalyst.  |
| 5           | March, 2023    |    | Practical Examination   |
| 6           | April, 2023    | -- | Theory Examination  |

  
Subject Teacher

  
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Tal : Parvej, Dist : Raigad.

**S.M.D.L. Arts, Science & Commerce College, Kalamboli. (Navi Mumbai)**  
**Teaching Plan: Academic Year: 2022-2023**


Name of the Faculty :- Mr. Palkar S.R.  
 Class :- S.Y.B.Sc.(P)  
 Subject :- Physical Chemistry Practicals (Semester-III)

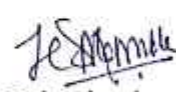
| Sr. No. | Month           | Available Period | Practicals   |
|---------|-----------------|------------------|--|
| 1       | July, 2022      | 8                | 1. To verify Ostwald's dilution law for weak acid conductometrically.<br>2. To determine dissociation constant of weak acid conductometrically.  |
| 2       | August, 2022    | 8                | 3. To determine the critical solution temperature (CST) of phenol - Water System.<br>4. Determination of energy of activation of acid catalyzed hydrolysis of methyl acetate.                      |
| 3       | September, 2022 | 8                | 5. To investigate the reaction between $K_2S_2O_8$ and KI with equal initial concentrations of the reactants<br>6. To determine solubility of sparingly soluble salts (anytwo) conductometrically. |

Subject :- Physical Chemistry Practicals (Semester-IV)

|   |                |   | Practicals   |
|---|----------------|---|--|
| 1 | December, 2022 | 8 | 1. To determine standard EMF and the standard free energy change of Daniel cell potentiometrically .     |
| 2 | January, 2023  | 8 | 2. To determine the amount of HCl in the given sample potentiometrically.                                |
| 3 | February, 2023 | 8 | 3. Compare the strengths of HCl and $H_2SO_4$ by studying kinetics of acid hydrolysis of methyl acetate. |

  
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**S.M.D.L. Arts, Science & Commerce College, Kulamboli. (Navi Mumbai)**  
**Teaching Plan: Academic Year: 2022-2023**

Name of The Faculty :- Mr. Palkar S.R.  
 Class :- T.Y.B.Sc.(P)  
 Subject :- Physical Chemistry

| Sr. No.           | Month      | Available Period | Topic/Sub. Topic to be Taught  |
|-------------------|------------|------------------|--|
| <b>SEMESTER-V</b> |            |                  |  |
| 1                 | June, 2022 | 05               | <p><b>1.0 MOLECULAR SPECTROSCOPY</b><br/>                     1.1 Rotational Spectrum: Introduction to dipole moment, polarization of a bond, bond moment, molecular structure, .Rotational spectrum of a diatomic molecule, rigid rotor, moment of inertia, energy levels, conditions for obtaining pure rotational spectrum, selection rule, nature of spectrum, determination of internuclear distance and isotopic shift.</p>  |
| 2                 | July, 2022 | 20               | <p>1.2 Vibrational spectrum: Vibrational motion, degrees of freedom, modes of vibration, vibrational spectrum of a diatomic molecule, simple harmonic oscillator, energy levels, zero point energy, conditions for obtaining vibrational spectrum, selection rule, nature of spectrum.</p> <p>1.3 Vibrational-Rotational spectrum of diatomic molecule: energy levels, selection rule, nature of spectrum, P and R branch lines. Anharmonic oscillator - energy levels, selection rule, fundamental band, overtones. Application of vibrational-rotational spectrum in determination of force constant and its significance. Infrared spectra of simple molecules like H<sub>2</sub>O and CO<sub>2</sub>.</p> <p>1.4 Raman Spectroscopy : Scattering of electromagnetic radiation, Rayleigh scattering, Raman scattering, nature of Raman spectrum, Stoke's lines, anti-Stoke's lines, Raman shift, quantum theory of Raman spectrum, comparative study of IR and Raman spectra, rule of mutual exclusion- CO<sub>2</sub> molecule.</p> <p><b>2.0 CHEMICAL THERMODYNAMICS</b><br/>                     2.1.1 Colligative properties: Vapour pressure and relative lowering of vapour pressure. Measurement of lowering of vapour pressure - Static and Dynamic method.</p> <p>2.1.2 Solutions of Solid in Liquid:<br/>                     2.1.2.1 Elevation in boiling point of a solution, thermodynamic derivation relating elevation in boiling point of the solution and molar mass of non-volatile solute.</p> <p>2.1.2.2 Depression in freezing point of a solution, thermodynamic derivation relating the depression in the freezing point of a solution and the molar mass of the non-volatile solute. Beckmann Method and Rast Method.</p> <p>2.1.3 Osmotic Pressure : Introduction, thermodynamic derivation of Van't Hoff equation, Van't Hoff Factor. Measurement of Osmotic Pressure - Berkeley and Hartley's Method, Reverse Osmosis.</p> |

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|---|-----------------|----|--|
| 3 | August, 2022    | 20 | <p>2.2 CHEMICAL KINETICS <span style="float: right;">5L</span></p> <p>2.2.1 Collision theory of reaction rates : Application of collision theory to</p> <p>1. Unimolecular reaction Lindemann theory and</p> <p>2. Bimolecular reaction. (derivation expected for both)</p> <p>2.2.2 Classification of reactions as slow, fast and ultra -fast. Study of kinetics of fast reactions by Stop flow method and Flash photolysis (No derivation expected).</p> <p>3.0 NUCLEAR CHEMISTRY <span style="float: right;">15L</span></p> <p>3.1. Introduction: Basic terms-radioactive constants (decay constant, half life and average life) and units of radioactivity</p> <p>3.2 Detection and Measurement of Radioactivity: Types and characteristics of nuclear radiations, behaviour of ion pairs in electric field, detection and measurement of nuclear radiations using G. M. Counter and Scintillation Counter.</p> <p>3.3 Application of use of radioisotopes as Tracers : chemical reaction mechanism, age determination - dating by C<sup>14</sup> .</p> <p>3.4 Nuclear reactions: nuclear transmutation (one example for each projectile), artificial radioactivity, Q - value of nuclear reaction, threshold energy.</p> <p>3.5 Fission Process : Fissile and fertile material, nuclear fission, chain reaction, factor controlling fission process. multiplication factor and critical size or mass of fissionable material, nuclear power reactor and breeder reactor.</p> <p>3.6 Fusion Process : Thermonuclear reactions occurring on stellar bodies and earth.</p> |
| 4 | September, 2022 | 15 | <p>4.1 SURFACE CHEMISTRY <span style="float: right;">6L</span></p> <p>4.1.1 Adsorption: Physical and Chemical Adsorption, types of adsorption isotherms . Langmuir's adsorption isotherm (Postulates and derivation expected). B.E.T. equation for multilayer adsorption, (derivation not expected). Determination of surface area of an adsorbent using B.E.T. equation.</p> <p>4.2 COLLOIDAL STATE <span style="float: right;">9L</span></p> <p>4.2.1 Introduction to colloids - Emulsions, Gels and Sols</p> <p>4.2.2 Electrical Properties : Origin of charges on colloidal particles, Concept of electrical double layer, zeta potential, Helmholtz and Stern model. Electro-kinetic phenomena - Electrophoresis, Electro-osmosis, Streaming potential, Sedimentation potential; Donnan Membrane Equilibrium.</p> <p>4.2.3 Colloidal electrolytes : Introduction, micelle formation,</p> <p>4.2.4 Surfactants: Classification and applications of surfactants in detergents and food industry</p>   |
| 5 | October, 2022   | -- | Practical & Theory Examination   |

| SEMESTER-VI |                |    |   |
|-------------|----------------|----|---|
| 1           | November, 2022 | 08 | <p><b>1.1 ELECTROCHEMISTRY</b> <span style="float: right;">7L</span></p> <p>1.1.1 Activity and Activity Coefficient: Lewis concept, ionic strength, Mean ionic activity and mean ionic activity coefficient of an electrolyte, expression for activities of electrolytes. DebyeHuckel limiting law (No derivation).</p> <p>1.1.2 Classification of cells: Chemical cells and Concentration cells. Chemical cells with and without transference, Electrode Concentration cells, Electrolyte concentration cells with and without transference (derivations are expected),</p>  |
| 2           | December, 2022 | 15 | <p><b>2.0 POLYMERS</b> <span style="float: right;">15L</span></p> <p>2.1 Basic terms : macromolecule, monomer, repeat unit, degree of polymerization.</p> <p>2.2. Classification of polymers: Classification based on source, structure, thermal response and physical properties.</p> <p>2.3. Molar masses of polymers: Number average, Weight average, Viscosity average molar mass, Monodispersity and Polydispersity</p> <p>2.4. Method of determining molar masses of polymers : Viscosity method using Ostwald Viscometer. (derivation expected)</p> <p>2.5. Light Emitting Polymers : Introduction, Characteristics, Method of preparation and applications.</p> <p>2.6. Antioxidants and Stabilizers : Antioxidants , Ultraviolet stabilizers, Colourants, Antistatic agents and Curing agents.</p>   |
| 3           | January, 2023  | 23 | <p><b>1.2 APPLIED ELECTROCHEMISTRY</b> <span style="float: right;">8L</span></p> <p>1.2.1 Polarization: concentration polarization and it's elimination</p> <p>1.2.2 Decomposition Potential and Overvoltage : Introduction, experimental determination of decomposition potential, factors affecting decomposition potential. Tafel's equation for hydrogen overvoltage, experimental determination of over -voltage</p> <p><b>3.1 BASICS OF QUANTUM CHEMISTRY</b> <span style="float: right;">10 L</span></p> <p>3.1.1 Classical mechanics: Introduction, limitations of classical mechanics, Black body radiation, photoelectric effect, Compton effect.</p> <p>3.1.2 Quantum mechanics : Introduction, Planck's theory of quantization, wave particle duality, de -Broglie's equation, Heisenberg's uncertainty principle.</p> <p>3.1.3 Progressive and standing waves- Introduction, boundary conditions, Schrodinger's time independent wave equation (No derivation expected), interpretation and properties of wave function.</p> |

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|   |                |    | <p>3.1.4 Quantum mechanics : State function and its significance, Concept of operators - definition, addition, subtraction and multiplication of operators, commutative and non - commutative operators, linear operator, Hamiltonian operator, Eigen function and Eigen value.</p> <p>3.2 RENEWABLE ENERGY RESOURCES <span style="float: right;">5L</span></p> <p>3.2.1. Renewable energy resources : Introduction.</p> <p>3.2.2 Solar energy: Solar cells, Photovoltaic effect, Differences between conductors, semiconductors, insulators and its band gap, Semiconductors as solar energy converters, Silicon solar cell</p> <p>3.2.3. Hydrogen : Fuel of the future, production of hydrogen by direct electrolysis of water, advantages of hydrogen as a universal energy medium.</p> |
| 4 | February, 2023 | 15 | <p>4.1 NMR -NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY <span style="float: right;">7L</span></p> <p>4.1.1. Principle : Nuclear spin, magnetic moment, nuclear 'g' factor, energy levels, Larmor precession, Relaxation processes in NMR ( spin -spin relaxation and spin - lattice relaxation).</p> <p>4.1.2. Instrumentation: NMR Spectrometer</p> <p>4.2 ELECTRON SPIN RESONANCE SPECTROSCOPY</p> <p>4.2.1. Principle: fundamental equation, g-value -dimensionless constant or electron g-factor, hyperfine splitting.</p> <p>4.2.2. Instrumentation: ESR spectrometer, ESR spectrum of hydrogen and deuterium</p>   |
| 5 | March, 2023    |    | Practical Examination  |
| 6 | April, 2023    | -- | Theory Examination   |

*[Signature]*

Subject Teacher

*[Signature]*

Head of the Department

Department of Chemistry  
S. M. D. L. College, Kalamboli.

*[Signature]*

Principal

S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.



**S.M.D.L. Arts, Science & Commerce College, Kalamboli. (Navi Mumbai)**  
**Teaching Plan: Academic Year: 2022-2023**

Name of the Faculty : - Mr. Palkar S.R.

Class :- T.Y.B.Sc.(P)

Subject :- Physical Chemistry Practicals (Semester-V)

| Sr. No. | Month           | Available Period | Practicals  |
|---------|-----------------|------------------|---|
| 1       | July, 2022      | 12               | <p>Non-Instrumental<br/>Colligative properties<br/>To determine the molecular weight of compound by Rast Method</p> <p>Chemical Kinetics<br/>To determine the order between <math>K_2S_2O_8</math> and KI by fractional change method. (six units and three units)</p>                                |
| 2       | August, 2022    | 12               | <p>Surface phenomena<br/>To investigate the adsorption of acetic acid on activated charcoal and test the validity of Freundlich adsorption isotherm.</p> <p>Instrumental<br/>Potentiometry<br/>To determine the solubility product and solubility of AgCl potentiometrically using chemical cell.</p> |
| 3       | September, 2022 | 12               | <p>Conductometry<br/>To determine the velocity constant of alkaline hydrolysis of ethyl acetate by conductometric method.</p> <p>pH-metry<br/>To determine acidic and basic dissociation constants of amino acid and hence to calculate isoelectric point.</p>  |

Subject :- Physical Chemistry Practicals (Semester-VI)

| Sr. No. | Month          | Available Period | Practicals   |
|---------|----------------|------------------|--|
|         |                |                  | Practicals   |
| 1       | December, 2022 | 12               | <p>Non-Instrumental<br/>Chemical Kinetics<br/>To interpret the order of reaction graphically from the given experimental data and calculate the specific rate constant. (No fractional order)</p> <p>Viscosity<br/>To determine the molecular weight of high polymer polyvinyl alcohol (PVA) by viscosity measurement.</p> |
| 2       | January, 2023  | 12               | Instrumental<br>Potentiometry  |

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|   |                |    | <p>To determine the amount of iodide, bromide and chloride in the mixture by potentiometric titration with silver nitrate.</p> <p>To determine the number of electrons in the redox reaction between ferrous ammonium sulphate and ceric sulphate potentiometrically.</p>                                    |
| 3 | February, 2023 | 12 | <p><b>Conductometry</b><br/>To titrate a mixture of weak acid and strong acid against strong base and estimate the amount of each acid in the mixture conductometrically.</p> <p><b>Colorimetry</b><br/>To estimate the amount of Fe(III) in the complex formation with salicylic acid by Static Method.</p> |

*[Signature]*  
Subject Teacher

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Head of the Department  
Department of Chemistry  
S. M. D. L. College, Kalamboli.



*[Signature]*  
Principal  
**PRINCIPAL**  
S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.

**SES'S****SHIKSHAN MAHARASHI DADASAHEB LIMAYE ARTS, COMMERCE  
AND SCIENCE COLLEGE, KALAMBOLI****Teaching Plan****Academic Year 2022-2023****Name of the Faculty- Science****Sub- Inorganic Chemistry****Class-T.Y.B.Sc. Chemistry****Semester : V****Name of the Professor : Bhagat V.S.****COURSE CODE: USCH502**

| Sr.No.   | Month     | Period / Lectures | Topic/Sub topic to be taught   |
|--|-----------|-------------------|--|
| <b>UNIT.1 : Molecular Symmetry and Chemical Bonding Available Lectures: - 6L</b> |           |                   |  |
| 1  | July-2022 | 1                 | <b>1.CHEMICAL BONDING</b><br>1.1.1 Introduction and Importance of Symmetry in Chemistry.   |
| 2  | July-2022 | 3                 | 1.1.2 Symmetry elements and Symmetry operations<br>a) Centre of Symmetry or Inversion Centre (i)<br>eg.trans dichloroethylene<br>b) Proper Rotational axis ( $C_n$ )<br>eg. $C_2$ rotational axis of symmetry in $H_2O$<br>c)Plane of symmetry or Mirror plane ( $\sigma$ )<br>d)Improper rotational axis ( $S_n$ )<br>eg. Rotation -reflection operation in trans dichloroethylene<br>e)The Identity (E)<br>i)We do not do anything on the molecule<br>ii)we rotate the molecule through $360^\circ$ ( $\theta = 360^\circ$ )<br>$C_2 = E$ or $S_n = E$ |
|  |           |                   | <b>1.1.3 Concept of a Point Group with illustrations using the following point groups :(i)<math>C_{\infty v}</math> (ii) <math>D_{\infty h}</math> (iii) <math>C_{2v}</math> (iv) <math>C_{3v}</math> (v)<math>C_{2h}</math> and (vi)<math>D_{3h}</math></b><br>Concept of a Point Group   |

|   |           |   |  |
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| 3 | July-2022 | 2 | <p>I) C-type point groups<br/>           II) D-type Point groups<br/>           III) Higher symmetry point groups</p> <ol style="list-style-type: none"> <li><math>C_{\infty v}</math> Point groups. Eg: HCl, S=C=O</li> <li><math>D_{\infty h}</math> Point groups. eg: H-H molecule</li> <li><math>C_{2v}</math> Point groups. eg: H<sub>2</sub>O molecule</li> <li><math>C_{3v}</math> Point groups. eg: NH<sub>3</sub> molecule</li> <li><math>C_{2h}</math> Point groups. eg: trans-dichloroethylene.</li> <li><math>D_{3h}</math> Point groups. eg: BCl<sub>3</sub></li> </ol> |
|---|-----------|---|--|

| Sr.No.  | Month    | Period / Lectures | Topic/Sub topic to be taught  |
|---|----------|-------------------|---|
| <b>UNIT.1 : Molecular Symmetry and Chemical Bonding Available Lectures: -9L</b> |          |                   |   |
| 1   | Jul-2022 | 1L                | <p><b>1.2 Molecular Orbital Theory for heteronuclear diatomic and polyatomic species</b><br/>           Introduction<br/>           1 Molecular Orbital Theory</p> <ul style="list-style-type: none"> <li>Grade &amp; Ungraded nature of s, p and d orbitals</li> <li>Symmetry of molecular orbitals<br/>             Approximately the same energy ii) same or matching symmetry iii) positive overlap to form bonding orbital.</li> <li>Combination of atomic orbitals for the formation of MOs</li> </ul>  |
| 2   | Jul-2022 | 3L                | <p>1.2.1 Comparison between homonuclear diatomic molecular orbitals and heteronuclear diatomic molecules.</p> <ul style="list-style-type: none"> <li><b>Homonuclear Diatomics</b><br/>             Molecules consisting of two identical atoms are said to be homonuclear diatomic, such as: H<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub>, and F<sub>2</sub>.</li> </ul> <ol style="list-style-type: none"> <li>The atomic orbitals of the two atoms are from the same valence shell &amp; their energy levels should be nearly the same</li> <li>The symmetry individuals A.Os with respect to the axis joining the two nuclei are the same even after the A.Os combine</li> <li>The orbitals are directed in space in such a way that</li> </ol> |



|   |          |    |  |
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|   |          |    | <p>they can have maximum overlap.</p> <ul style="list-style-type: none"> <li>• <b>Heteronuclear Diatomics</b><br/>Molecules consisting of two non-identical atoms are said to be heteronuclear diatomic, such as: CO, NO, HF, and LiF.</li> </ul> <p>i) The two atoms have different electronegativities.<br/>ii) have different exchange energy.<br/>iii) The contribution of atomic orbitals towards the molecular orbitals is not the same</p> <p>A) Effect of different electronegativities.<br/>B) Effect on covalent bond energy<br/>C) Contribution of atomic orbitals towards the molecular orbitals</p> |
| 3 | Jul-2022 | 2L | <p>1.2.2. Heteronuclear diatomic molecules like CO, NO and HCl, appreciation of modified MO diagram for CO.</p> <p>1) Carbon monoxide : CO molecule<br/>Improved or modified molecular orbital diagram<br/>2) Nitric Oxide: NO molecule<br/>3) Hydrogen Chloride : HCL molecule</p>  |
| 4 | Jul-2022 | 3L | <p><b>1.2.3 Molecular orbital theory for molecular species using <math>H_3</math> and <math>H_3^+</math> (correlation diagram expected).</b></p> <p>i) Molecular orbital theory for molecular Polyatomic species<br/>ii) Labelling of orbitals in linear and non linear molecule<br/>iii) Trihydrogen <math>H_3</math> Species &amp; Trihydrogen ion <math>H_3^+</math>. i) Formation of group orbitals <math>\psi_g</math> ii) Combination of atomic orbitals of central atom (Hc) with the group orbitals<br/>iv) <math>BeH_2</math> molecule.<br/>v) Water molecule.</p>                                      |

| Sr.No.                                | Month    | Period / Lectures | Topic/Sub topic to be taught  |
|---------------------------------------|----------|-------------------|---|
| <b>UNIT.2 : Solid State Chemistry</b> |          |                   | <b>Available Lectures: - 11L</b>  |
| 1                                     | Jul-2022 | 2                 | <p><b>2.1 Structures of Solids</b></p> <p><b>Introductions</b></p> <p>2.2.1 Explanation of terms viz.crystal lattice, lattice points, unit cells and lattice constants.</p> <p>1)Crystal lattice or space lattice: Lattice means network. Crystal lattice is an orderly array of repeating unit</p> <p>2) Lattice Points: The points at which the particles are arranged are called lattice point</p> <p>3)Unit cell : The smallest geometrical portion of the crystal which can be used to build up the whole crystal</p> <p>4)Lattice Constants</p> |
| 2                                     | Aug-2022 | 5                 | <p>2.1.2 Closest packing of rigid spheres(hcp,ccp), packing density in simple cubic, bcc and fcc lattices. Relationship between density, radius of unit cell and lattice parameters.</p> <p>Efficiency of Packing</p> <p>i)Atomic packing factor or packing density in a simple cubic (SC) lattice</p> <p>ii)Packing density in body centered cubic (bcc) lattice</p> <p>iii) Packing density in Face centered cubic (fcc) lattice</p> <p>Relation between density, radius of unit cell and lattice parameters</p>                                    |
| 3                                     | Aug-2022 | 4L.               | <p><b>2.1.3 Stoichiometric Point defects in solids (discussion on Frankel and Schottky defects expected).</b></p> <p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Point defects <ul style="list-style-type: none"> <li>i) Impurities</li> <li>ii) Interstitial</li> <li>iii) Vacancies</li> </ul> </li> </ul> <p>Consequences of Frankel and Schottky defects.</p>  |

|   |          |   |  |
|---|----------|---|--|
| 4 | Aug-2022 | 2   | <b>2.2 Superconductivity (4L)</b>  |
|   |          |   | 2.2.1 Discovery of superconductivity   |
|   |          | 2   | 2.2.2 Explanation of terms like superconductivity, transition temperature, Meissner effect.  |
|   |          |   | 2.2.3 Different types of super conductors viz. conventional superconductors, alkali metal fullerenes, high temperature super conductors. |
|   |          | 2.2.4 Brief application of superconductors. |  |

| Sr.No.   | Month      | Period / Lectures | Topic/Sub topic to be taught  |
|--|------------|-------------------|---|
| <b>UNIT.3 : Chemistry of Inner Transition Elements</b> |            |                   | <b>Available Lectures: - 15L</b>  |
| 1  | Sep -2022  | 2                 | <b>3.1 Introduction</b> :, Position in periodic table and electronic configuration of lanthanides and actinides.  |
| 2  | Sep-2022   | 6                 | <b>3.2 Chemistry of Lanthanides</b><br>Lanthanides series<br>i) Electronic configuration<br><b>Properties of lanthanides</b><br>a)Oxidation state<br>b) Lanthanide Contraction & its Consequences<br>Effects of lanthanides contraction<br>i)decreasing basicity<br>ii)Variation in the properties of lanthanides<br>iii)Similarities between yttrium and lanthanons<br>iv)similarities between zirconium and hafnium<br>v)Abnormally high densities of post lanthanides<br>vi) Nobel character of post lanthanides<br>c)Magnetic and spectral Properties<br>d) Ability to form complexes<br>i)Ion-pair associations<br>ii)Non-chelated species |
| 3  | Sep - 2022 | 6                 | <b>3.3</b> :Occurrence, extraction and separation of lanthanides by (i) Ion Exchange method and (ii) Solvent extraction method (Principles and technique)<br>i)Extraction<br>Individual separation  |


|   |          |   |   |
|---|----------|---|---|
|   |          |   | i) Ion Exchange method<br>Ion exchange equilibria and the significance of complexing agent<br>ii) Solvent extraction method<br>Tributyl phosphate (TBP) extraction<br>Bis(2-ethyl hexyl) Phosphoric acid (HDEHP) Extraction |
| 4 | Sep 2022 | 1 | <b>3.4 Applications of lanthanides</b><br>i) Commercial applications<br>ii) Nuclear applications<br>iii) Magnetic, Electronics, and Laser Applications  |



| Sr.No.                               | Month      | Period / Lectures | Topic/Sub topic to be taught   |
|--------------------------------------|------------|-------------------|--|
| <b>UNIT.4 : Some selected topics</b> |            |                   | <b>Available Lectures: - 15L</b>   |
| 1                                    | Sep - 2022 | 2                 | <b>4. SOME SELECTED TOPICS</b><br><b>4.1 Chemistry of Non-aqueous Solvents (5 L)</b><br><b>Physical properties</b><br>i) Melting and boiling points<br>ii) Heat of fusion and vaporization<br>iii) Dipole moment<br>iv) Dielectric constant<br>v) Viscosity<br><b>Chemical Properties</b><br>i) Acidic and basic characteristics<br>ii) Oxidizing and reducing characteristics |
| 2                                    | Sep - 2022 | 1                 | <b>4.1.1 Classification of solvents and importance of non-aqueous solvents.</b><br><b>1. Classification of solvents</b><br>i) Protic and aprotic solvents<br>ii) Acid solvents, Basic solvents, Amphoteric solvents<br>iii) Ionizing and Non-ionizing solvents<br><b>importance of non-aqueous solvents</b>  |
|                                      |            |                   | <b>4.1.2 Characteristics and study of liquid ammonia, dinitrogen tetra oxide as non-aqueous solvents with respect to : (i) acid-base reactions and (ii) redox</b>  |


|   |            |    |  |
|---|------------|----|--|
| 3 | Sep - 2022 | 2  | <p>reactions</p> <p><b>Liquid ammonia:</b> Solubility in liquid ammonia<br/> a)Ionic compounds b)Non-metals c)Metals<br/> Chemical Reaction in liq.Ammonia: a)Acid-base reaction b)Redox reactions</p> <p><b>Liquid Dinitrogen :</b>a)Acid-base reaction<br/> b)Complex formation reactions<br/> c)Reaction with metals<br/> d)Solvate formation</p>   |
| 1 | Oct-2022   | 2L | <p><b>4.2 Comparative Chemistry of Group 16 (5L)</b></p> <p><b>Electronic Configuration</b></p> <p><b>Physical properties</b></p> <p><b>Trends in Physical properties</b></p> <ol style="list-style-type: none"> <li>1)Atomic size ,atomic volume and density</li> <li>2)Ionization energy,electropositive and electronegative</li> <li>3)Non-metallic and metallic character</li> <li>4)Melting and boiling points</li> <li>5)conductivity</li> <li>6)oxidation states : a)By passing 2 electrons b)By sharing 2 electrons c)By forming a double bond d)By accepting a pair of electrons</li> <li>7)Catenation</li> <li>8)Tendency towards formation of hydrogen bond</li> <li>9)Molecular structure</li> <li>10)Allotropy</li> </ol> <p>Anomalous behavior of oxygen</p> |
| 2 | Oct-2022   | 1L | <p>4.2.1 General characteristics, allotropy ,oxides and oxoacids of Sulphur</p> <p><b>Allotropy,oxygen,Sulphur</b></p> <ol style="list-style-type: none"> <li>1)Rhombic or Sulphur</li> <li>2)Monoclinic or <math>\beta</math>Sulphur</li> <li>3)<math>\gamma</math>Sulphur</li> <li>4)Plastics or <math>\gamma</math> Sulphur</li> <li>5)Colloidal Sulphur</li> <li>6)Engel's or <math>\epsilon</math>Sulphur</li> </ol>  |

|   |            |    |  |
|---|------------|----|--|
|   |            |    | Selenium ,Tellurium and Polonium<br>Chemical properties  |
| 3 | Oct-2022   | 2L | 4.2.2 Manufacture of sulphuric acid by contact process.<br><b>Principles</b> :Choice of catalyst<br>a)Platinised asbestos b)Vanadium pentoxide ( $V_2O_5$ )<br>Effects of pressure<br>Effect of concentration  |
| 1 | Oct - 2021 | 1L | <b>4.3 Comparative Chemistry of Group 17 (5L)</b><br>Electronic Configuration<br>Trends in Physical properties and Chemical properties<br>Chemical Properties<br>i)Reaction with metals and non-metals<br>ii)Reaction with water<br>iii) Reaction with Hydrogen<br>iv) Reaction with Hydrocarbons<br>v)Reaction with Alkali<br>vi)Bleaching action<br>Displacement reactions     |
| 2 | Oct - 2021 | 2L | <b>4.3.1 General characteristics, anomalous properties of fluorine,compounds with hydrogen(preparation and properties), oxoacids of chlorine</b><br>Trends in properties<br>i)Thermal stability<br>ii)Acid strength<br>iii)oxidizing property<br>Structure and geometry of oxyacid of chlorine<br>i)Hypochloride ion<br>ii)Chlorite ion<br>iii)chloate ion<br>iv)Perchlorate ion |
| 3 | Oct - 2021 | 2L | 4.3.2 Chemistry of interhalogens with reference to preparations, properties and structures (on the basis of VSEPR theory) .<br>General methods of preparations   |

|  |  |  |  |
|--|--|--|--|
|  |  |  | <p>i) Direct combination of halogens<br/>ii) Action of halogens on interhalogens<br/>iii) Disproportionation<br/>General Properties<br/><b>Structures of interhalogens</b><br/>1) XY type interhalogen<br/>2) XY<sub>3</sub> type interhalogen<br/>3) XY<sub>5</sub> type interhalogen<br/>4) XY<sub>7</sub> type interhalogen</p> |
|--|--|--|--|

  
Subject teacher

  
  
Signature  
Head of the dept.

  
Principal

SES's

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year : 2022-23

Name of the Faculty : - Dr. Usha Sainger

Class :- S.Y B.Sc.

Sub :- Foundation Course

Semester III

Department : Science

| Sr. No. | Month          | Available Period | Topic/ SubTopic to be taught  |
|---------|----------------|------------------|---|
| 1.      | July           | 12               | <b>MODULE 1 - HUMAN RIGHTS PROVISIONS, VIOLATION AND REDRESSAL:</b><br>A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanism<br>Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms<br>B. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms.<br>C. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms.<br>D. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms |
| 2.      | July<br>August | 05<br>06         | <b>MODULE II- DEALING WITH ENVIRONMENTAL CONCERNS :</b><br>A) . Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects.<br>B) Some locally relevant case studies of environmental disasters.<br>C) Dealing with disasters - factors to be considered in prevention , mitigation (relief and rehabilitation) and disaster preparedness.<br>D) Human rights issues in addressing disasters - Issues related to compensation, equitable and fair distribution of   |



*M. Kamble*

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ACS College, Kalamboli,  
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## Syllabus Completion Report

Academic Year : 2022-23

Name of the Teacher: Mali Pratiksha Pandharinath

Department of : Geography

Program: B.A. (Arts)

Course : Geography

| Sr. No. | Class    | Subject  | Topic No.                           | Semester | Syllabus Completed | Remark |
|---------|----------|--|-------------------------------------|----------|--------------------|--------|
| 1.      | F.Y.Bcom | Environmental Studies                                      | 1 <sup>st</sup> to IV <sup>th</sup> | I        | Yes                |        |
| 2.      | T.Y.B.A. | Geography of Maharashtra                                   | 1 <sup>st</sup> to V <sup>th</sup>  | V        | Yes                |        |
| 3.      | T.Y.B.A. | Tools and Techniques in Geography for Spatial Analysis - I | 1 <sup>st</sup> to V <sup>th</sup>  | V        | Yes                |        |
| 4.      | T.Y.B.A. | Regional Planning & Development                            | 1 <sup>st</sup> to V <sup>th</sup>  | V        | Yes                |        |
| 5.      | T.Y.B.A. | Geography of Resources                                     | 1 <sup>st</sup> to V <sup>th</sup>  | V        | Yes                |        |
| 6.      | T.Y.B.A. | Geospatial Technology                                      | 1 <sup>st</sup> to V <sup>th</sup>  | V        | Yes                |        |

Date: 02/11/2022



*Mali*  
SUBJECT TEACHER

*PP Mahajan*  
HEAD OF DEPARTMENT  
Head  
Department of Geography  
S. M. D. L. College, Kalambohi.

*S. S. Umaye*  
I/C PRINCIPAL  
SES'S S. PRINCIPAL Umaye  
ACS College, Kalambohi,  
Tal :- Panvel, Dist :- Raigad.

## Syllabus Completion Report

Academic Year: 2022-23

Name of the Teacher: Mali Pratiksha Pandharinath

Department of : Geography

Program: B.A. (Arts)

Course : Geography

| Sr. No. | Class    | Subject   | Topic No.                          | Semester | Syllabus Completed | Remark |
|---------|----------|---|------------------------------------|----------|--------------------|--------|
| 1.      | F.Y.Bcom | Environmental Studies                                       | 1 <sup>st</sup> to 5 <sup>th</sup> | II       | Yes                |        |
| 2.      | T.Y.B.A. | Political Geography   | 1 <sup>st</sup> to 5 <sup>th</sup> | VI       | Yes                |        |
| 3.      | T.Y.B.A. | Tools and Techniques in Geography for Spatial Analysis – II | 1 <sup>st</sup> to 5 <sup>th</sup> | VI       | Yes                |        |
| 4.      | T.Y.B.A. | Economic Geography  | 1 <sup>st</sup> to 5 <sup>th</sup> | VI       | Yes                |        |
| 5.      | T.Y.B.A. | Social Geography  | 1 <sup>st</sup> to 5 <sup>th</sup> | VI       | Yes                |        |
| 6.      | T.Y.B.A. | Project Report  | 1 <sup>st</sup> to 5 <sup>th</sup> | VI       | Yes                |        |

Date: 03/04/2023



*Mali*  
SUBJECT TEACHER

*PP Mahajan*  
HEAD OF DEPARTMENT  
Head  
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*PP Mahajan*  
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SES'S S. M. D. L. College, Limaye  
ACE Building, S. M. D. L. Hill,  
Tal :- Panvel, Dist :- Raigad.

## Syllabus Completion Report

Academic Year : 2022-23

Name of the Teacher: Dr. Priti Prasad Mahajan

Department of : Geography

Program: B.A. (Arts)

Course : Geography

| Sr. No. | Class     | Subject                  | Topic No.                           | Semester | Syllabus Completed | Remark |
|---------|-----------|--------------------------|-------------------------------------|----------|--------------------|--------|
| 1.      | F.Y.B. A. | Human Geography          | I <sup>st</sup> to IV <sup>th</sup> | I        | Yes                |        |
| 2.      | S.Y.B.A.  | Geography of Maharashtra | I <sup>st</sup> to V <sup>th</sup>  | III      | Yes                |        |
| 3.      | S.Y.B.A.  | Agriculture Geography    | I <sup>st</sup> to V <sup>th</sup>  | III      | Yes                |        |
| 4.      | F.Y.B.A.  | Foundation Course I      | I <sup>st</sup> to V <sup>th</sup>  | I        | Yes                |        |
| 5.      | S.Y.B.A.  | Foundation Course II     | I <sup>st</sup> to V <sup>th</sup>  | III      | Yes                |        |
| 6.      | T.Y.B.A.  | Geography of Settlement  | I <sup>st</sup> to V <sup>th</sup>  | V        | Yes                |        |

Date: 02/11/2022



*PPMahajan*  
SUBJECT TEACHER

*PPMahajan*  
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## Syllabus Completion Report

Academic Year: 2022-23

Name of the Teacher: Dr. Priti Prasad Mahajan

Department of : Geography

Program: B.A. (Arts)

Course : Geography

| Sr. No. | Class     | Subject                      | Topic No.                          | Semester | Syllabus Completed | Remark |
|---------|-----------|------------------------------|------------------------------------|----------|--------------------|--------|
| 1.      | F.Y.B. A. | Geography of Environmental   | I <sup>st</sup> to V <sup>th</sup> | II       | Yes                |        |
| 2.      | S.Y.B.A.  | Geography of India           | I <sup>st</sup> to V <sup>th</sup> | IV       | Yes                |        |
| 3.      | S.Y.B.A.  | Travel and Tourism Geography | I <sup>st</sup> to V <sup>th</sup> | IV       | Yes                |        |
| 4.      | F.Y.B.A.  | Foundation Course I          | I <sup>st</sup> to V <sup>th</sup> | II       | Yes                |        |
| 5.      | S.Y.B.A.  | Foundation Course II         | I <sup>st</sup> to V <sup>th</sup> | IV       | Yes                |        |
| 6.      | T.Y.B.A.  | Environmental Geography      | I <sup>st</sup> to V <sup>th</sup> | VI       | Yes                |        |

Date: 03/04/2023



*PP Mahajan*  
SUBJECT TEACHER

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Tal. - Panvel, Dist. - Raigad.

## SYLLABUS COMPLETION REPORT

Academic Year 2022-23

NAME OF THE TEACHER: Prof. Dr. Manisha Bansode

DEPARTMENT: - Marathi PROGRAMME: - B. A. Course: Marathi

| Sr. No | CLASS | SUBJECT                       | TOPIC NO. | SEMESTER | SYLLABUS COMPLETED | REMARK |
|--------|-------|-------------------------------|-----------|----------|--------------------|--------|
| 1      | FYBA  | Marathi compulsory            | --        | I        | YES                |        |
| 2      | SYBA  | Marathi - III                 | --        | III      | YES                |        |
| 3      | TYBA  | Linguistics & Marathi Grammer | --        | V        | YES                |        |
| 4      | TYBA  | Modern Marathi Literature     | --        | V        | YES                |        |
| 5      | TYBA  | Occupational Marathi          | --        | V        | YES                |        |

DATE:-  
F.Y.B.A - 18/11/2022  
S.Y.B.A - 01/10/2022  
T.Y.B.A - 14/10/2022

*Manisha Bansode*

SUBJECT TEACHER

*Manisha Bansode*

Head

Department of Marathi  
HEAD OF DEPARTMENT  
S. M. D. L. College, Kalamboli.

*Manisha Bansode*

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ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigarh



## SYLLABUS COMPLETION REPORT

Academic Year 2022-23

NAME OF THE TEACHER: : Prof. Dr. Manisha Bansode

DEPARTMENT: - Marathi PROGRAMME: - B.A. Course: Marathi

| Sr. No | CLASS | SUBJECT                       | TOPIC NO. | SEMESTER | SYLLABUS COMPLETED | REMARK |
|--------|-------|-------------------------------|-----------|----------|--------------------|--------|
| 1      | FYBA  | Marathi compulsory            | --        | II       | YES                |        |
| 2      | SYBA  | Marathi - III                 | --        | IV       | YES                |        |
| 3      | TYBA  | Linguistics & Marathi Grammer | --        | IV       | YES                |        |
| 4      | TYBA  | Modern Marathi Literature     | --        | VI       | YES                |        |
| 5      | TYBA  | Occupational Marathi          | --        | VI       | YES                |        |

F.Y.B.A. - 20/03/2023

S.Y.B.A. - 01/03/2023

DATE: -

T.Y.B.A. - 21/3/2023

*Manisha Bansode*

SUBJECT TEACHER

*Manisha Bansode*

Head

Department of Marathi  
HEAD OF DEPARTMENT  
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*P. M. Mahajan*

V.G. PRINCIPAL  
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ACS College, Kalamboli.  
Tal :- Panvel, Dist :- Raigad



Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science college Kalamboli

Syllabus Completion Report

Acadmeic year – 2022-23

Name of the Teacher :- Dr. Ramesh Jadhavar

Department – Marathi

Program :- B.A.

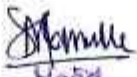
Course :- Marathi


| Sr. no | Class | Subject                          | Semester | Syllabus completed |
|--------|-------|----------------------------------|----------|--------------------|
| 1      | FYBA  | Marathi Optional                 | I        | YES                |
| 2      | SYBA  | Marathi - II                     | III      | YES                |
| 3      | TYBA  | History of medieval Marathi Lit. | V        | YES                |
| 4      | TYBA  | Indian and Western Theories      | V        | YES                |
| 5      | TYBA  | Literature and Society           | V        | YES                |

Date :- 10/10/2022

  
Subject Teacher



  
Head of the Department  
Department of Marathi  
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Principal  
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ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science college Kalamboli

Syllabus Completion Report

Academic year – 2022-23

Name of the Teacher :- Dr. Ramesh Jadhavar

Department – Marathi

Program :- B.A.

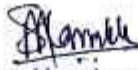
Course :- Marathi

| Sr. no | Class | Subject                          | Semester | Syllabus completed |
|--------|-------|----------------------------------|----------|--------------------|
| 1      | FYBA  | Marathi Optional                 | II       | YES                |
| 2      | SYBA  | Marathi - II                     | IV       | YES                |
| 3      | TYBA  | History of medieval Marathi Lit. | VI       | YES                |
| 4      | TYBA  | Indian and Western Theories      | VI       | YES                |
| 5      | TYBA  | Literature and Society           | VI       | YES                |

Date :- 29/03/2023

  
Subject Teacher



  
Head of the Department  
Department of Marathi  
S. M. D. L. College Kalamboli.

  
Principal  
PRINCIPAL  
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ACS College, Kalamboli,  
Tal: Porvet Dist: Raigad.



## Syllabus Completion Report

Academic Year :2022-23 (Jun – Nov)

Name of the Teacher- Mr. Avinash Pawar

Department of : History

Program: B.A.

Course: History

| Sr. No. | Class    | Subject   | Module No. | Semester | Syllabus Completed | Remark |
|---------|----------|---|------------|----------|--------------------|--------|
| 1       | S.Y.B.A. | Ancient India from Earliest Times to 1000 A.D.    | ITO IV     | III      | Yes                |        |
| 2       | T.Y.B.A. | History of Medieval India (1000 CE – 1526 CE)     | ITO IV     | V        | Yes                |        |
| 3       | T.Y.B.A. | Introduction to Archaeology                       | ITO IV     | V        | Yes                |        |
| 4       | T.Y.B.A. | History of the Marathas (1630 CE -1707 CE)        | ITO IV     | V        | Yes                |        |
| 5       | T.Y.B.A. | History of Contemporary World (1945 CE - 2000 CE) | ITO IV     | V        | Yes                |        |

Date: 02/11/2022

SUBJECT TEACHER

HEAD OF DEPARTMENT

Department of History  
S. M. D. L. College, Kalambohi.

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Syllabus Completion Report

Academic Year :2022-23 (Nov-Apr)

Name of the Teacher- Mr. Avinash Pawar

Department of : History

Program: B.A.

Course: History

| Sr. No. | Class    | Subject   | Module No. | Semester | Syllabus Completed | Remark |
|---------|----------|---|------------|----------|--------------------|--------|
| 1       | S.Y.B.A. | Ancient India from Earliest Times to 1000 A.D.    | ITO IV     | IV       | Yes                |        |
| 2       | T.Y.B.A. | History of Medieval India (1000 CE - 1526 CE)     | ITO IV     | VI       | Yes                |        |
| 3       | T.Y.B.A. | Introduction to Archaeology                       | ITO IV     | VI       | Yes                |        |
| 4       | T.Y.B.A. | History of the Marathas (1630 CE -1707 CE)        | ITO IV     | VI       | Yes                |        |
| 5       | T.Y.B.A. | History of Contemporary World (1945 CE - 2000 CE) | ITO IV     | VI       | Yes                |        |

Date: 13/03/2023

SUBJECT TEACHER



HEAD OF DEPARTMENT  
Department of History  
S. M. D. L. College, Kalamboili.



I/C PRINCIPAL



SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboili,  
Tal. - Panvel, Dist. - Raigad.

Syllabus Completion Report  
Academic Year : 2022-23

Name of the Teacher - DR. JADHAV B. B.

Department of : HISTORY

Program: B.A.

Course: HISTORY

| Sr. No. | Class    | Subject  | Topic No. | Semester | Syllabus Completed | Remark |
|---------|----------|--|-----------|----------|--------------------|--------|
| 1       | F.Y.B.A. | History of Modern India: Society and Economy                       | ITO IV    | II       | Yes                |        |
| 2       | S.Y.B.A. | Landmarks in World History, 1300 A.D.-1945 A.D.                    | ITO IV    | IV       | Yes                |        |
| 3       | T.Y.B.A. | Core Course V: History of Contemporary India (1947 CE- 2000 CE)    | ITO IV    | VI       | Yes                |        |
| 4       | T.Y.B.A. | Core Course VII: History of the Marathas (1707 CE - 1818 CE)       | ITO IV    | VI       | Yes                |        |
| 5       | T.Y.B.A. | Elective Course IX A - Research Methodology and Sources of History | ITO IV    | VI       | Yes                |        |

Date: 18/03/2023

SUBJECT TEACHER



DR. JADHAV B. B.

**HEAD OF DEPARTMENT**  
Department of History

**Principal**  
S. M. D. L. College, Kalamboili.

**SES'S S. M. Dadasaheb Limaye**  
ACS College, Kalamboili,  
Tal. - Panvel, Dist. - Raigad.

Syllabus Completion Report

Academic Year : 2022-23

Name of the Teacher- - DR. JADHAV B. B.

Department of : HISTORY

Program: B.A.

Course: HISTORY

| Sr. No. | Class    | Subject  | Topic No. | Semester | Syllabus Completed | Remark |
|---------|----------|--|-----------|----------|--------------------|--------|
| 1       | F.Y.B.A. | History of Modern India: Society and Economy                       | ITO IV    | II       | Yes                |        |
| 2       | S.Y.B.A. | Landmarks in World History, 1300 A.D.-1945 A.D.                    | ITO IV    | IV       | Yes                |        |
| 3       | T.Y.B.A. | Core Course V: History of Contemporary India (1947 CE- 2000 CE)    | ITO IV    | VI       | Yes                |        |
| 4       | T.Y.B.A. | Core Course VII: History of the Marathas (1707 CE - 1818 CE)       | ITO IV    | VI       | Yes                |        |
| 5       | T.Y.B.A. | Elective Course IX A - Research Methodology and Sources of History | ITO IV    | VI       | Yes                |        |

Date: 24/05/2023

SUBJECT TEACHER



HEAD OF DEPARTMENT

Department of History

S. M. D. L. College, Kalamboli:

Principal

I/C PRINCIPAL

SESS S. M. Dadasahab Limaye

ACS College, Kalamboli,

Tal. - Panvel. Dist. - Raigad.

Syllabus Completion Report

Academic Year : 2022-23

Name of the Teacher - DR. JADHAV B. B.

Department of : HISTORY

Program : B.A.

Course : HISTORY

| Sr. No. | Class    | Subject  | Topic No. | Semester | Syllabus Completed | Remark |
|---------|----------|--|-----------|----------|--------------------|--------|
| 1       | F.Y.B.A. | History of Modern India (1857-1947)                                | ITO IV    | I        | Yes                |        |
| 2       | S.Y.B.A. | Landmarks in World History, 1300 A.D.-1945 A.D.                    | ITO IV    | III      | Yes                |        |
| 3       | T.Y.B.A. | Core Course V: History of Modern Maharashtra (1818 CE-1960 CE)     | ITO IV    | V        | Yes                |        |
| 4       | T.Y.B.A. | Core Course VII- History of the Marathas (1630 CE - 1707CE)        | ITO IV    | V        | Yes                |        |
| 5       | T.Y.B.A. | Elective Course IX A - Research Methodology and Sources of History | ITO IV    | V        | Yes                |        |

Date: 02/11/2022

SUBJECT TEACHER



HEAD OF DEPARTMENT

Department of History

S. M. D. L. College, Kalamboli.



I/C PRINCIPAL

SES'S S. M. Dadasaheb Limaye

ACS College, Kalamboli,

Tal. Panvel Dist. Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce & Science College Kalamboli.

SYLLABUS COMPLETION REPORT

Academic Year: 2022-23

Name of the Teacher: MAHAJAN SANJAY BABURAO

Department of Economics

Program: B.A (Arts)


Course: Economics

| Sr. No. | Class    | Subject                                     | Topic No.                           | Semester | Syllabus Completed | Remark |
|---------|----------|---|-------------------------------------|----------|--------------------|--------|
| 1.      | S.Y.B.A  | Macroeconomics –II                          | I <sup>st</sup> to IV <sup>th</sup> | IV       | Yes                |        |
| 2.      | T.Y.B.A. | Advanced Macroeconomics-III, Paper No XIII  | I <sup>st</sup> to IV <sup>th</sup> | VI       | Yes                |        |
| 3.      | T.Y.B.A. | International Economics Paper No. XIV       | I <sup>st</sup> to IV <sup>th</sup> | VI       | Yes                |        |
| 4.      | T.Y.B.A. | Industrial & Labour Economics, Paper No. XV | I <sup>st</sup> to IV <sup>th</sup> | VI       | Yes                |        |
| 5.      | T.Y.B.A  | Rural Development Paper No. XVI             | I <sup>st</sup> to IV <sup>th</sup> | VI       | Yes                |        |

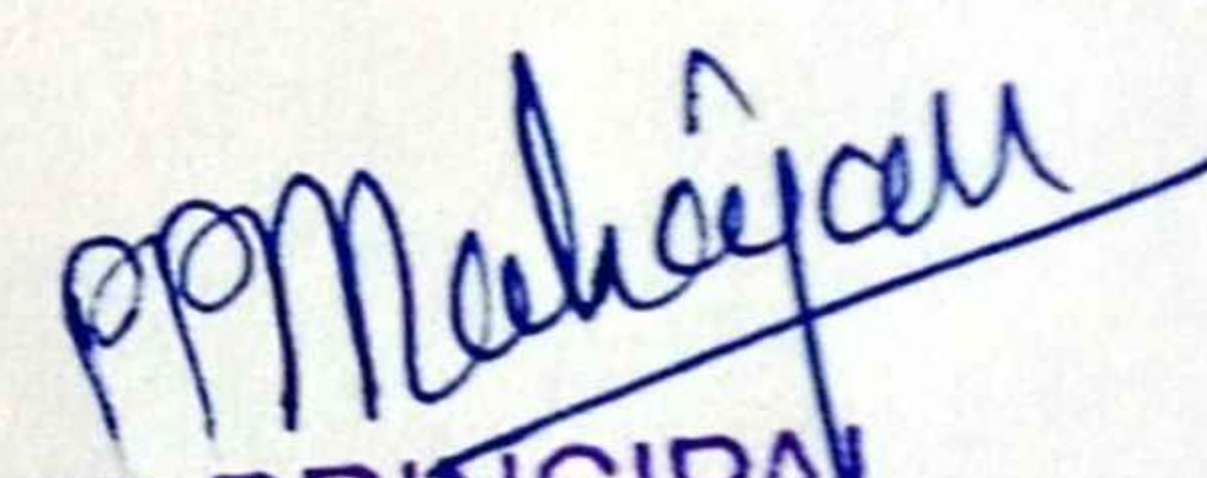
DATE: SYBA: - 03-03-2023

TYBA: - 25-03-2023

  
SUBJECT TEACHER

  
HEAD OF DEPARTMENT  
Department of Economics  
S. M. D. L. College, Kalamboli.



  
PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
AGS College, Kalamboli,  
Tal :- Pangel, Dist :- Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Science & Commerce College,  
Kalamboli Navi Mumbai.

Academic Year-2022-23

SYLLABUS COMPLETION REPORT

Name of the Teacher: MAHAJAN SANJAY BABURAO

Department of Economics


Program: B.A (Arts)

Course: Economics


| Sr. No. | Class    | Subject   | Topic No.                           | Semester | Syllabus Completed | Remark |
|---------|----------|---|-------------------------------------|----------|--------------------|--------|
| 1.      | S.Y.B.A  | Economics: Macroeconomics –I,<br>Paper No. III              | I <sup>st</sup> to IV <sup>th</sup> | III      | Yes                |        |
| 2.      | T.Y.B.A. | Advanced Microeconomics- III,<br>Paper No VII               | I <sup>st</sup> to IV <sup>th</sup> | V        | Yes                |        |
| 3.      | T.Y.B.A. | Economics of Growth &<br>Development Paper No. VIII         | I <sup>st</sup> to IV <sup>th</sup> | V        | Yes                |        |
| 4.      | T.Y.B.A. | Industrial & Labour Economics,<br>Paper No. IX              | I <sup>st</sup> to IV <sup>th</sup> | V        | Yes                |        |
| 5.      | T.Y.B.A  | Entrepreneurship & Small Scale<br>Industries, Paper No. – X | I <sup>st</sup> to IV <sup>th</sup> | V        | Yes                |        |

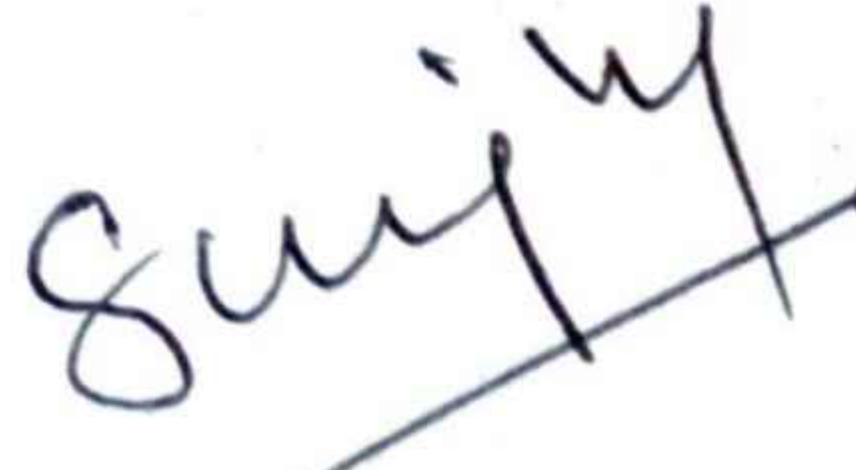
DATE: 20-10-2022, TYBA Syllabus Completed


04-10-2022, SYBA Syllabus Completed

  
SUBJECT TEACHER



  
HEAD OF DEPARTMENT  
Department of Economics  
S. M. D. L. College, Kalamboli.

  
IQAC CO-ORDINATOR

  
PRINCIPAL  
S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Parnel, Dist : Raigad.

Syllabus Completion Report

Academic Year : 2022-23

Name of the Teacher: SALUNKHE VASUNDHARA DATTARAM

Department of : ECONOMICS

Program: B.A. (Arts)

Course : Economics

| Sr. No. | Class    | Subject                        | Topic No.                           | Semester | Syllabus Completed | Remark |
|---------|----------|--------------------------------|-------------------------------------|----------|--------------------|--------|
| 1.      | F.Y.B.A. | Micro Economics - I            | I <sup>st</sup> to IV <sup>th</sup> | I        | Yes                |        |
| 2.      | S.Y.B.A. | Introduction To Advertising- I | I <sup>st</sup> to IV <sup>th</sup> | III      | Yes                |        |
| 3.      | S.Y.B.A. | Public Finance                 | I <sup>st</sup> to IV <sup>th</sup> | III      | Yes                |        |
| 4.      | T.Y.B.A. | Environmental Economics - I    | I <sup>st</sup> to IV <sup>th</sup> | V        | Yes                |        |
| 5.      | T.Y.B.A. | Economy of Maharashtra - I     | I <sup>st</sup> to IV <sup>th</sup> | V        | Yes                |        |

Date: F.Y.B.A. 18-11-2022  
S.Y.B.A. 01-10-2022  
T.Y.B.A. 14-10-2022

*Vasundhara*

SUBJECT TEACHER

*guyy*

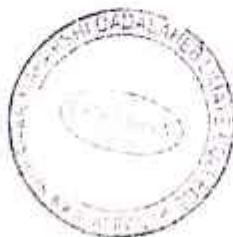
IQAC CO-ORDINATOR

*guyy*

HEAD OF DEPARTMENT  
Department of Economics  
S.E.S.'s S. M. Dadasaheb Limaye

*S. M. Dadasaheb Limaye*  
PRINCIPAL

PRINCIPAL  
S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Parvel, Dist : Raigad





## SYLLABUS COMPLETION REPORT

Academic Year: 2022-23

Name of the Teacher: SALUNKHE VASUNDHARA DATTARAM

Department of Economics

Program: B.A (Arts)

Course: Economics

| Sr. No. | Class    | Subject                                       | Topic No.                           | Semester | Syllabus Completed | Remark |
|---------|----------|---|-------------------------------------|----------|--------------------|--------|
| 1.      | F.Y.B.A. | Microeconomics -II                            | I <sup>st</sup> to IV <sup>th</sup> | II       | Yes                |        |
| 2.      | S.Y.B.A. | Indian Economy , Paper No VI                  | I <sup>st</sup> to IV <sup>th</sup> | IV       | Yes                |        |
| 3.      | S.Y.B.A. | Introducation to Advertising - II             | I <sup>st</sup> to IV <sup>th</sup> | IV       | Yes                |        |
| 4.      | T.Y.B.A. | Environmental Economics - II , Paper No. XVII | I <sup>st</sup> to IV <sup>th</sup> | VI       | Yes                |        |
| 5.      | T.Y.B.A. | Economy of Maharashtra -II Paper No. XVIII    | I <sup>st</sup> to IV <sup>th</sup> | VI       | Yes                |        |

F.Y.B.A. - 20-03-2023

DATE: S.Y.B.A. - 01-03-2023

T.Y.B.A. - 21-03-2023

*Baldev*

SUBJECT TEACHER

*Emily*

HEAD OF DEPARTMENT

*P.P. Mahajan*

PRINCIPAL  
SES'S S. M. Pathashah Limaye  
ACS COLLEGE, Kulkarni,  
Tal: Pimpri, Dist: P. H. D.



Shikshan Maharshi Dadasaheb Limaye Arts, Science & Commerce College,  
Kalamboli, Navi Mumbai.

Academic Year- 2022-2023

Date: 14/10/2022

To,

The Principal,

SMDL College, Kalamboli.

Subject: Regarding the completion of teaching the syllabus of TYBA,

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my TYBA syllabus by teaching in stipulated time.

Class: TYBA Semester – V

Subject Name:- 1. Environmental Economics – I

2. Economy of Maharashtra – I



Salunkhe V. D.

(Subject Teacher)



PRINCIPAL  
S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli, Navi Mumbai  
Tal : Parvati, Dist : Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Science & Commerce College,  
Kalamboli, Navi Mumbai.

Academic Year- 2022-2023

Date: 18/11/2022

To,

The Principal,

SMDL College, Kalamboli.

Subject: Regarding the completion of teaching the syllabus of FYBA,


Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my FYBA syllabus by teaching in stipulated time.

Class: FYBA

Semester – I

Subject Name:- 1. Micro Economics – I



Salunkhe V. D.

(Subject Teacher)



PRINCIPAL

S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Science & Commerce College,  
Kalamboli, Navi Mumbai.

Academic Year- 2022-2023

Date: 01/10/2022

To,

The Principal,

SMDL College, Kalamboli.

Subject: Regarding the completion of teaching the syllabus of SYBA,

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my SYBA syllabus by teaching in stipulated time.

Class: SYBA

Semester – III

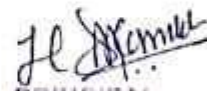
Subject Name:- 1. Introduction To Advertising- I

2. Public Finance



Salunkhe V. D.

(Subject Teacher)



PRINCIPAL

S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Science & Commerce College,  
Kalamboli, Navi Mumbai.  
Academic Year- 2022-2023

Date: 21-03- 2023

To,  
The Principal,  
SMDL College, Kalamboli.

Subject: Regarding the completion of teaching the syllabus of TYBA Semester VI  
( Environmental Economics – II & Economy of Maharashtra - II)

Respected Madam ,

Through this declaration letter, I would like to say that, I have been  
completed my TYBA ( Environmental Economics - II & Economy of  
Maharashtra - II) syllabus by teaching in stipulated time.



*Beesare*

Salunkhe V.D.

(Subject Teacher)

*PP Mahajan*  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Science & Commerce College,  
Kalamboli, Navi Mumbai.  
Academic Year- 2022-2023

Date: 01-03- 2023

To,  
The Principal,  
SMDL College, Kalamboli.

Subject: Regarding the completion of teaching the syllabus of SYBA Semester IV  
( Indian Economy & Advertising- II)

Respected Madam ,

Through this declaration letter, I would like to say that, I have been  
completed my SYBA ( Indian Economy & Advertising- II) syllabus by teaching in  
stipulated time.

*Salunkhe V.D.*  
Salunkhe V.D.

(Subject Teacher)



*P. M. Mahajan*  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Science & Commerce College,  
Kalamboli, Navi Mumbai.  
Academic Year- 2022-2023

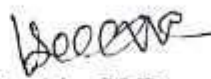
Date: 20-03- 2023

To,  
The Principal,  
SMDL College, Kalamboli.

Subject: Regarding the completion of teaching the syllabus of FYBA Semester II  
( Micro Economics - II)


Respected Madam ,

Through this declaration letter, I would like to say that, I have been  
completed my ( Micro Economics - II) syllabus by teaching in stipulated time.

  
Salunkhe V.D.

(Subject Teacher)



  
PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

## SYLLABUS COMPLETION REPORT

**Academic Year: 2022-2023**

**Name of the Teacher: Bhagat Varsha S.**


**Department: Chemistry**

**Program: B.Sc.(Science)**

**Course : Chemistry**

| Sr. No. | Class       | Subject             | Unit No.          | Semester | Syllabus Completed | Remark |
|---------|-------------|---------------------|-------------------|----------|--------------------|--------|
| 1       | F.Y.B.Sc.   | Inorganic Chemistry | II (Paper I & II) | II       | Yes                |        |
| 2       | S. Y. B.Sc. | Inorganic Chemistry | II (Paper I & II) | IV       | Yes                |        |
| 3       | T. Y. B.Sc  | Inorganic Chemistry | I to IV           | VI       | Yes                |        |

DATE: 23/03/2023

  
SUBJECT TEACHER



  
PRINCIPAL  
IC PRINCIPAL  
S.S. S. M. Dadasaheb Limaye  
ACS College, Rajamboli,  
Tal. - Ranvel, Dist. - Raigad.



## SYLLABUS COMPLETION REPORT

Academic Year: 2022-2023

Name of the Teacher: Bhagat Varsha S.

Department: Chemistry

Program: B.Sc.(Science)

Course : Chemistry

| Sr. No. | Class       | Subject             | Unit No.          | Semester | Syllabus Completed | Remark |
|---------|-------------|---------------------|-------------------|----------|--------------------|--------|
| 1       | F. Y. B.Sc. | Inorganic Chemistry | II (Paper I & II) | I        | Yes                |        |
| 2       | S. Y. B.Sc. | Inorganic Chemistry | II (Paper I & II) | III      | Yes                |        |
| 3       | T. Y. B.Sc  | Inorganic Chemistry | I to IV           | V        | Yes                |        |

DATE: 21/11/2022

SUBJECT TEACHER



PRINCIPAL

PRINCIPAL

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamoli,  
Tal : Panvel, Dist : Raigad.

**SES SHIKSHAN MAHARSHI DADASAHEB LIMAYE ,  
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 04/03/23

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of F.Y.B.Sc. Sem II  
Chemistry.**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my F.Y.B. Sc.  
Sem. II Chemistry syllabus by teaching in stipulated time.

Class: T.Y.B.Sc. Chemistry

Semester: II

Subject Name: Physical Chemistry

Academic Year: 2022-23



  
Subject Teacher

Ms. Archana Sitaram Yadav

**SES SHIKSHAN MAHARSHI DADASAHEB LIMAYE ,  
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 04/03/23

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of S. Y. B. Sc. Sem. IV  
Chemistry.**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my **S. Y. B. Sc. Sem. IV Chemistry syllabus** by teaching in stipulated time.

Class: S. Y. B. Sc. (Chemistry)

Semester: IV

Subject Name: Physical Chemistry

Academic Year: 2022-23



*Archana Sitaram Yadav*  
Subject Teacher

Ms. Archana Sitaram Yadav

**SES SHIKSHAN MAHARSHI DADASAHEB LIMAYE ,  
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 04/03/23

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of T.Y.B.Sc. Sem VI  
Chemistry.**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my T.Y.B. Sc.  
Sem. VI Chemistry syllabus by teaching in stipulated time.

Class: T.Y.B.Sc. (Chemistry)

Semester: VI

Subject Name: Physical Chemistry

Academic Year: 2022-23



*Archana Sitaram Yadav*  
Subject Teacher

Ms. Archana Sitaram Yadav

**SES**  
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE ,**  
**ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

**SYLLABUS COMPLETION REPORT**

**Academic Year: 2022-23**

**Name of the Teacher:** Ms. Archana Sitaram Yadav

**Department:** Chemistry

**Program:** B.Sc. (Science)

**Subject:** Physical Chemistry

| Sr. No. | Class       | Subject            | Unit No.    | Semester | Syllabus Completed | Remark |
|---------|-------------|--------------------|-------------|----------|--------------------|--------|
| 1       | F.Y.B.Sc.   | Physical Chemistry | I & II      | II       | Yes                |        |
| 2       | S.Y.B.SC.   | Physical Chemistry | I,II, III   | IV       | Yes                |        |
| 3       | T. Y. B.Sc. | Physical Chemistry | I,II,III,IV | VI       | Yes                |        |

**DATE:** 04/03/23

  
**SUBJECT TEACHER**



  
**PRINCIPAL**  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

Shikshan Maharshi Dadasaheb Limaye, Arts, Science & Commerce College, Kalamboli

## SYLLABUS COMPLETION REPORT

Academic Year: 2022-23

Name of the Teacher: Mr. Palkar S.R.

Department of Chemistry

Program: B.Sc. (Science)

Course: Chemistry

| S.N. | Class     | Subject            | Unit No.     | Semester | Syllabus Completed | Remark |
|------|-----------|--------------------|--------------|----------|--------------------|--------|
| 1    | F.Y.B.Sc. | Physical Chemistry | I (Paper-I)  | I        | Yes                |        |
|      |           | Physical Chemistry | I (Paper-II) | I        | Yes                |        |
| 2    | F.Y.B.Sc. | Physical Chemistry | Practicals   | I        | Yes                |        |

Date: 14<sup>TH</sup> November, 2022



SUBJECT TEACHER



HEAD OF DEPARTMENT

Department of Chemistry  
S. M. D. L. College, Kalamboli.



PRINCIPAL  
PRINCIPAL

S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.

Shikshan Maharshi Dadasaheb Limaye, Arts, Science & Commerce College, Kalamboli

## SYLLABUS COMPLETION REPORT

Academic Year: 2022-23

Name of the Teacher: Mr. Palkar S.R.

Department of Chemistry

Program: B.Sc. (Science)

Course: Chemistry

| S.N. | Class     | Subject            | Unit No.     | Semester | Syllabus Completed | Remark |
|------|-----------|--------------------|--------------|----------|--------------------|--------|
| 1    | F.Y.B.Sc. | Physical Chemistry | I (Paper-I)  | I        | Yes                |        |
|      |           | Physical Chemistry | I (Paper-II) | I        | Yes                |        |
| 2    | F.Y.B.Sc. | Physical Chemistry | Practicals   | I        | Yes                |        |


Date: 14<sup>TH</sup> November, 2022



SUBJECT TEACHER



HEAD OF DEPARTMENT



PRINCIPAL

S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal. Panvel, Dist. Raigad.

**S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI**

Date: 3<sup>rd</sup> October 2022

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of teaching the syllabus of T.Y.B.Sc. Sem-V**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my T.Y.B.Sc. Semester-V syllabus by teaching in stipulated time.

Class: T.Y.B.Sc.

Semester: FIFTH

Subject Name: Physical Chemistry (UNIT 1 TO 4) Theory & Practicals

Academic Year: 2022-2023



*[Signature]*  
Mr. Palkar Snehal Ram  
(Subject Teacher)

*[Signature]*  
**PRINCIPAL**  
S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.



**S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI**

Date: 3<sup>rd</sup> October 2022

To,  
The Principal.  
S.M.D.L. College.

**Subject: Regarding the completion of teaching the syllabus of S.Y.B.Sc. Sem-III**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my **S.Y.B.Sc. Semester-III** syllabus by teaching in stipulated time.

Class: S.Y.B.Sc.

Semester: THIRD

Academic Year: 2022-2023

Subject Name: Physical Chemistry (UNIT I For Paper I & II) Theory & Practicals



*Snehal Ram*  
Mr. Palkar Snehal Ram  
(Subject Teacher)

*S. M. Darasaheb Limaye*  
PRINCIPAL  
S.E.S.'s S. M. Darasaheb Limaye  
College, Kalamboli.  
Tal : Panvel, Dist : Raigad.

**S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI**

Date: 14<sup>TH</sup> November, 2022

To,  
The Principal.  
S.M.D.L. College.

**Subject: Regarding the completion of teaching the syllabus of F.Y.B.Sc. Sem-I**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my **F.Y.B.Sc. Semester-I** syllabus by teaching in stipulated time.


Class: F.Y.B.Sc.

Semester: First

Academic Year: 2022-2023

Subject Name: Physical Chemistry (Unit-I For Paper I & II) Theory & Practicals



  
Mr. Palkar Snehal Ram  
(Subject Teacher)

  
**PRINCIPAL**  
S.E.S.'s S. M. Dadasaheb Limaye  
College, Kalamboli,  
Tal : Panvel, Dist : Raigad.

**SES's**  
**Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.**

**SYLLABUS COMPLETION REPORT**

**Academic Year : 2022-23**

Name of the Teacher : Mr. Aniket Gaikwad

Department of Chemistry

Program : B.Sc. (Science)

Course : Chemistry

| Sr. No. | Class       | Subject           | Unit No. | Semester | Syllabus Completed | Remark |
|---------|-------------|-------------------|----------|----------|--------------------|--------|
| 1       | F.Y.B.Sc.   | Organic Chemistry | 1 & 2    | I        | Yes                |        |
| 2       | S. Y. B.Sc. | Organic Chemistry | 1,2,3    | III      | Yes                |        |
| 3       | T. Y. B.Sc. | Organic Chemistry | 1,2,3,4  | V        | Yes                |        |

DATE: 6/10/2022



SUBJECT TEACHER



HEAD OF DEPARTMENT  
**Head**

Department of Chemistry  
S. M. D. L. College, Kalamboli.



PRINCIPAL  
I/C PRINCIPAL

SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.



**SES's**  
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,**  
**ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 6/10/2022

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of F. Y. B. Sc. Sem. I**

**Chemistry .**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my F. Y. B. Sc. Sem. I Chemistry syllabus by teaching in stipulated time.

Class: F. Y. B. Sc. (Chemistry)

Semester: FIRST

Subject Name: Organic Chemistry

Academic Year: 2022-23



**Mr. Aniket Gaikwad**

**SES's**  
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,**  
**ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 6/10/2022

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of S.Y.B.Sc. Sem III**

**Chemistry.**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my S.Y.B. Sc. Sem. III Chemistry syllabus by teaching in stipulated time.

Class: S.Y.B.Sc. (Chemistry)

Semester: THIRD

Subject Name: Organic Chemistry

Academic Year: 2022-23



**Mr. Aniket Gaikwad**

**SES's**  
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,**  
**ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 6/10/2022

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of T.Y.B.Sc. Sem V**

**Chemistry .**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my T.Y.B. Sc. Sem. V Chemistry syllabus by teaching in stipulated time.

Class: T.Y.B.Sc. (Chemistry)

Semester: FIFTH

Subject Name: Organic Chemistry

Academic Year: 2022-23



A handwritten signature in blue ink that reads 'Aniket Gaikwad'.

**Mr. Aniket Gaikwad**

SES's  
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

**SYLLABUS COMPLETION REPORT**

**Academic Year : 2022-23**

Name of the Teacher : Mr. Aniket Gaikawad

Department of Chemistry

Program : B.Sc. (Science)

Course : Chemistry

| Sr. No. | Class       | Subject           | Unit No. | Semester | Syllabus Completed | Remark |
|---------|-------------|-------------------|----------|----------|--------------------|--------|
| 1       | F.Y.B.Sc.   | Organic Chemistry | 1 & 2    | II       | Yes                |        |
| 2       | S. Y. B.Sc. | Organic Chemistry | 1,2,3    | IV       | Yes                |        |
| 3       | T. Y. B.Sc. | Organic Chemistry | 1,2,3,4  | VI       | Yes                |        |

DATE: 4/3/2023



SUBJECT TEACHER



HEAD OF DEPARTMENT  
**Head**

Department of Chemistry  
S. M. D. L. College, Kalamboli.



PRINCIPAL  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.



**SES's**  
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,**  
**ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 4/3/2023

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of F. Y. B. Sc. Sem. II**

**Chemistry .**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my F. Y. B. Sc. Sem. II Chemistry syllabus by teaching in stipulated time.

Class: F. Y. B. Sc. (Chemistry)

Semester: SECOND

Subject Name: Organic Chemistry

Academic Year: 2022-23



  
**Mr. Aniket Gaikwad**



**SES'S**  
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,**  
**ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 4/8/2023

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of S.Y.B.Sc. Sem IV**

**Chemistry.**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my S.Y.B. Sc. Sem. IV Chemistry syllabus by teaching in stipulated time.

Class: S.Y.B.Sc. (Chemistry)

Semester: FOURTH

Subject Name: Organic Chemistry

Academic Year: 2022-23



**Mr. Aniket Gaikwad**

SES's  
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,  
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 4/3/2023

To,  
The Principal,  
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of T.Y.B.Sc. Sem VI**

**Chemistry .**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my T.Y.B. Sc. Sem. VI Chemistry syllabus by teaching in stipulated time.

Class: T.Y.B.Sc.Chemistry

Semester: SIXTH

Subject Name: Organic Chemistry

Academic Year: 2022-23



A handwritten signature in blue ink, appearing to read 'Aniket Gaikwad'.

**Mr. Aniket Gaikwad**

**SES's**  
**Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and**  
**Science College, Kalamboli.**  
**SYLLABUS COMPLETION REPORT**  
**Academic year - 2022-23**

**Name of teacher:** Dr. Usha Rajiv Sainger


Department of Foundation Course

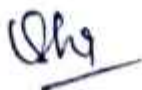
Program: B.Sc.(plain)


Course: F.C. & Botany

| Sr. No. | class     | subject                | No. of topics | Semester | Syllabus completed | remark |
|---------|-----------|------------------------|---------------|----------|--------------------|--------|
| 1.      | F.Y.B.Sc. | Foundation Course- I   | I TO IV       | I        | YES                |        |
| 2.      | F.Y.B.Sc. | Botany - I             | I TO III      | I        | YES                |        |
| 3.      | F.Y.B.Sc. | Botany - II            | I TO III      | I        | YES                |        |
| 4.      | S.Y.B.Sc. | Foundation Course -III | I TO IV       | III      | YES                |        |

DATE: 21-11-2023

  
SUBJECT TEACHER  
Dr. Usha R. Sainger

  
HEAD OF DEPARTMENT  
Dr. Usha R. Sainger

  
PRINCIPAL  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

**SES's**  
**Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and**  
**Science College, Kalamboli.**  
**SYLLABUS COMPLETION REPORT**

**Academic year:2022-23**

**Name of teacher:** Dr. Usha Rajiv Sainger

Department of Foundation Course

Program: B.Sc.(plain)

Course: F.C. & BOTANY

| Sr. No. | class     | subject                | No. of topics | Semester | Syllabus completed | remark |
|---------|-----------|------------------------|---------------|----------|--------------------|--------|
| 1.      | F.Y.B.Sc. | Foundation Course- I   | I TO VI       | II       | YES                |        |
| 2.      | F.Y.B.Sc. | Botany - I             | I TO III      | II       | YES                |        |
| 3.      | F.Y.B.Sc. | Botany - II            | I TO III      | II       | YES                |        |
| 4.      | S.Y.B.Sc. | Foundation Course -III | I TO V        | IV       | YES                |        |

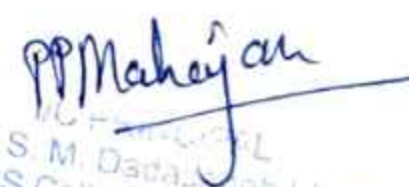
DATE: 09-03-2023



SUBJECT TEACHER  
Dr. Usha R. Sainger



HEAD OF DEPARTMENT  
Dr. Usha R. Sainger



SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal. - Panvel, Dist. - Raigad.

PRINCIPAL

SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,  
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI

Academic Year 2021-22  
SYLLABUS COMPLETION REPORT

Name of the Teacher : TEERTH RAJ CHAUBEY

Department of MATHEMATICS

Program : Science

Course : MATHEMATICS

| Sr. No. | Class       | Subject     | Unit No. | Semester | Syllabus Completed | Remark |
|---------|-------------|-------------|----------|----------|--------------------|--------|
| 1       | F. Y. B.Sc. | MATHEMATICS | I TO III | I        | Yes                |        |
| 2       | F. Y. B.Sc. | MATHEMATICS | I TO III | I        | Yes                |        |
| 3       | S. Y. B.Sc. | MATHEMATICS | I TO III | III      | Yes                |        |
| 4       | S.Y. B.Sc.  | MATHEMATICS | I TO III | III      | Yes                |        |
| 5       | S.Y. B.Sc.  | MATHEMATICS | I TO III | III      | Yes                |        |

DATE :31.2.2021



Principal

Teacher



HOD



Subject



**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,  
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

**Academic Year 2021-22  
SYLLABUS COMPLETION REPORT**

**Name of the Teacher : TEERTH RAJ CHAUBEY**

**Department of MATHEMATICS**

**Program : Science**

**Course : MATHEMATICS**

| Sr. No. | Class       | Subject     | Unit No. | Semester | Syllabus Completed | Remark |
|---------|-------------|-------------|----------|----------|--------------------|--------|
| 1       | F. Y. B.Sc. | MATHEMATICS | I TO III | II       | Yes                |        |
| 2       | F. Y. B.Sc. | MATHEMATICS | I TO III | II       | Yes                |        |
| 3       | S. Y. B.Sc. | MATHEMATICS | I TO III | IV       | Yes                |        |
| 4       | S.Y. B.Sc.  | MATHEMATICS | I TO III | IV       | Yes                |        |
| 5       | S.Y. B.Sc.  | MATHEMATICS | I TO III | IV       | Yes                |        |

DATE :31.2.2021

PRINCIPAL

Principal Teacher  
SES'S S. D. Limaye  
ACS College, Kalamboli,  
Tal. - Parner, Dist. - Raigad.

  
HOD  
Subject

S.E.S.

SHIKSHAN MAHARASHI DADASHEB LIMAYE COLLEGE, KALAMBOLI

ACADAMIC YEAR 2022-23

DEPARTMENT OF GEOGRAPHY


Leave Record with Necessary Adjustment

Teacher Name :- Dr. Mahajan Priti P.

| Month/Date | CL/ML/DL  | Necessary Adjustment   |
|------------|---|--|
| June       | C.L. : 20/06/2022   | Mrs. Kamble Manisha (F.Y.B.A.)<br>Mrs. Salunkhe V.D. (S.Y.B.A.)                              |
| July       | D.L. : 06/07/2022<br>C.L. : 02/07/2022, 04/07/2022,<br>05/07/2022, 07/07/2022 | Mr. Jadhavar R.B. (F.Y.B.A.)<br>Mrs. Salunkhe V.D. (S.Y.B.A.)<br>Mrs. Mali P.P. (T.Y.B.A.)   |
| August     | M.L. : 15/08/2022 to 19/08/2022   | Mrs. Kamble Manisha (F.Y.B.A.)<br>Mr. Jadhavar R.B. (S.Y.B.A.)<br>Mrs. Mali P.P. (T.Y.B.A.)  |
| September  | C.L. : 14/09/2022   | Mr. Jadhavar R.B. (F.Y.B.A.)<br>Mrs. Salunkhe V.D. (S.Y.B.A.)<br>Mrs. Mali P.P. (T.Y.B.A.)   |
| October    | D.L. : 14/10/2022, 18/10/2022,<br>19/10/2022                                  | Mrs. Salunkhe V.D. (F.Y.B.A.)<br>Mrs. Kamble Manisha (S.Y.B.A.)<br>Mrs. Mali P.P. (T.Y.B.A.) |
| November   | D.L. : 11/11/2022   | Mr. Jadhavar R.B. (F.Y.B.A.)<br>Mrs. Mali P.P. (T.Y.B.A.)                                    |



|          |  |  |
|----------|--|--|
| December | C.L. : 09/12/2022, 10/12/2022                | Mrs. Kamble Manisha (F.Y.B.A.)<br>Mrs. Salunkhe V.D. (S.Y.B.A.)<br>Mrs. Mali P.P. (T.Y.B.A.) |
| January  | D.L. : 06/01/2023, 18/01/2023,<br>19/01/2023 | Mrs. Kamble Manisha (F.Y.B.A.)<br>Mr. Jadhavar R.B. (S.Y.B.A.)<br>Mrs. Mali P.P. (T.Y.B.A.)  |
| February | -----  | -----  |
| March    | -----  | -----  |
| April    | C.L. : 15/04/2023                            |  |

  
 Head of Department  
 Department of Geography  
 S. M. D. L. College, Kalamboli.

  
 Subject Teacher

  
 Principal  
 110 PRINCIPAL  
 SES'S S. M. Dadasaheb Limaye  
 ACS College, Kalamboli,  
 Tal.- Panvel, Dist. - Raigad.





S.E.S.

SHIKSHAN MAHARASHI DADASHEB LIMAYE COLLEGE, KALAMBOLI

ACADAMIC YEAR 2022-23

DEPARTMENT OF GEOGRAPHY

Leave Record with Necessary Adjustment

Teacher Name :- Mrs. Mali Pratiksha Pandharinath

| Month/Date | CL/ML/DL                        | Necessary Adjustment  |
|------------|---------------------------------|---|
| June       | -----                           | -----   |
| July       | -----                           | -----   |
| August     | C.L. : 24/08/2022               | Dr. Mahajan P.P. (T.Y.B.A.)                                 |
| September  | C.L. : 13/09/2022 to 15/09/2022 | Dr. Mahajan P.P. (T.Y.B.A.)<br>Dr. Bharti Arote (F.Y.B.Com) |
| October    | D.L. : 17/10/2022, 18/10/2022   | Dr. Mahajan P.P. (T.Y.B.A.)                                 |
| November   | C.L. : 07/11/2022<br>15/11/2022 | Dr. Mahajan P.P. (T.Y.B.A.)                                 |



|          |   |  |
|----------|---|--|
| December | -----   | -----  |
| January  | -----   | -----  |
| February | D.L. : 23/02/2023 to 25/02/2023               | Dr. Mahajan P.P. (T.Y.B.A.)<br>Dr. Bharti Arote (F.Y.B.Com)<br>Mrs. Prajakti Patil (F.Y.B.Com) |
| March    | C.L. : 01/03/2023<br>04/03/2023<br>22/03/2023 | Dr. Mahajan P.P. (T.Y.B.A.)<br>Dr. Bharti Arote (F.Y.B.Com)<br>Mrs. Prajakti Patil (F.Y.B.Com) |
| April    | D.L. : 06/04/2023<br>11/04/2023               | Dr. Mahajan P.P. (T.Y.B.A.)<br>Dr. Bharti Arote (F.Y.B.Com)<br>Mrs. Prajakti Patil (F.Y.B.Com) |

*PP Mahajan*  
Head of Department  
Department of Geography  
S. M. D. L. College, Kalamboli.

*P. Mali*  
Subject Teacher

*PP Mahajan*  
Principal  
SES'S S. M. DeJasankar Limaye  
ACS College, Kalamboli,  
Tal.- Panvel, Dist. - Raigad.



SES's  
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli.

Academic Year -2022-23

Department of Chemistry

Leave Record with Necessary Adjustments

Miss. Archana Yadav

| Month                  | CL/ML/DL | Necessary Adjustments   |
|------------------------|----------|---|
| January                | -----    | -----   |
| February<br>07/02/2023 | CL       | TY Mr. Gaikwad Aniket<br>SY Mrs. Patil Surekha<br>FY Mrs Usha Sainger |
| March                  | -----    | -----   |
| April<br>15/04/2023    | CL       | TY Mr. Gaikwad Aniket<br>SY Miss Aarti Yadav<br>FY Mrs Usha Sainger   |
| 18/04/2023             | CL       | TY Mr. Gaikwad Aniket<br>SY Mrs. Patil Surekha<br>FY Mrs Usha Sainger |

HOD  
Head

Department of Chemistry  
S. M. D. L. College, Kalamboli.



PRINCIPAL  
PRINCIPAL

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad

S.E.S'S

SHIKSHAN MAHARASHI DADASHEB LIMAYE COLLEGE, KALAMBOLI

ACADAMIC YEAR 2022- 23

DEPARTMENT OF ECONOMICS

LEAVE RECORD WITH NECESSARY ADJUSTMENT



TEACHER NAME :- Mrs. SALUNKHE V.D. ( Assistant Prof)

| MONTH     | DATE - CL/ML/DL        | NECESSARY ADJUSTMENT  |
|-----------|------------------------|---|
| JUNE      | 20, 21 - CL            | S.Y. - Dr. JADHVAR R.B.<br>T.Y. - Mr. MAHAJAN S.B.                            |
| JULY      | 25, 26 - CL            | F.Y. - Dr. BANSODE M.N.<br>T.Y. - Mr. MAHAJAN S.B.                            |
| AUGUST    | 18-19 - CL             | F.Y. - Dr. JADHVAR R.B.<br>T.Y. - Mr. MAHAJAN S.B.                            |
| SEPTEMBER | 17, 24 - DL            | F.Y. - Dr. BANSODE M.N.<br>T.Y. - Mr. MAHAJAN S.B.                            |
| COTOBER   | 1, 8, 15,- DL, 17 - CL | F.Y. - Dr. BANSODE M.N.<br>S.Y. - Dr. JADHVAR R.B.<br>T.Y. - Mr. MAHAJAN S.B. |
| NOVEMBER  | 5, 12, 19 - DL         | F.Y. - Dr. BANSODE M.N.<br>S.Y. - Dr. JADHVAR R.B.<br>T.Y. - Mr. MAHAJAN S.B. |
| DECEMBER  | --                     | --  |
| JANUARY   | 27 - CL                | --  |
| FEBRUARY  | 27- DL , 1, 2 CL       | F.Y. - Dr. BANSODE M.N.<br>S.Y. - Dr. JADHVAR R.B.<br>T.Y. - Mr. MAHAJAN S.B. |
| MARCH     | --                     | --  |
| APRIL     | 13, 15 - CL            | --  |

Head of Department

Department of Economics  
S. M. D. L. College, Kalamboli.

Subject Teacher

Principal

SES'S S. M. Dadasheeb Limaye  
ACS College, Kalamboli,  
Tal :- Panvel, Dist :- Raigad.

**SES's**  
**Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,**  
**Kalamboli.**

**Academic Year –2022-23**

**Department of Chemistry**

**Leave Record with Necessary Adjustments**

**Mrs.R .S. Palkar**

| Month                  | CL/ML/DL | Necessary Adjustments                          |
|------------------------|----------|--|
| June                   |          |  |
| July<br>30/07/2022     | DL       | SY Mrs. Patil Surekha<br>TY Mrs. Bhagat Varsha |
| August                 | -----    | -----  |
| September              | -----    | -----  |
| October                | -----    | -----  |
| November               | -----    | -----  |
| December<br>15/12/2022 | CL       | TY Mrs. Bhagat Varsha<br>SY Mrs. Patil Surekha |
| 16/12/2022             | CL       | TY Mr. Gaikwad Aniket<br>SY Miss. Aarti Yadav  |
| 19/12/2022             | CL       | SY Mrs. Patil Surekha<br>TY Mrs. Bhagat Varsha |
| 20/12/2022             | CL       | TY Mrs. Bhagat Varsha<br>SY Mrs. Patil Surekha |



**HOD**

**Head**

Department of Chemistry  
S. M. D. L. College, Kalamboli.



**PRINCIPAL**

**PRINCIPAL**

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal: Panvel, Dist: Raigad

SES's  
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,  
Kalamboli.

Academic Year -2022-23

Department of Chemistry

Leave Record with Necessary Adjustments

Mrs.Varsha Bhagat

| Month                  | CL/ML/DL | Necessary Adjustments  |
|------------------------|----------|--|
| June                   | -----    | -----  |
| July                   | -----    | -----  |
| August<br>18/08/2022   | DL       | TY Mr. Palkar Snehal<br>SY Mrs. Patil Surekha<br>FY Mr Teerth Raj Chaubey  |
| September              | -----    | -----  |
| October                | -----    | -----  |
| November               | -----    | -----  |
| December<br>17/12/2022 | CL       | TY Mr. Palkar Snehal<br>SY Mrs. Patil Surekha<br>FY Mr Teerth Raj Chaubey  |
| 19/12/2022             | CL       | TY Mr. Gaikwad Aniket<br>SY Mrs. Patil Surekha<br>FY Mr Teerth Raj Chaubey |
| January                | -----    | -----  |
| February               | -----    | -----  |
| March                  | -----    | -----  |
| April                  | -----    | -----  |
| May                    | -----    | -----  |
| June                   | -----    | -----  |



HOD  
Head

Department of Chemistry  
S. M. D. L. College, Kalamboli.



  
PRINCIPAL  
PRINCIPAL

SES's S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal : Panvel, Dist : Raigad

S.E.S'S

SHIKSHAN MAHARASHI DADASHEB LIMAYE COLLEGE, KALAMBOLI

ACADAMIC YEAR 2022-23

DEPARTMENT OF ECONOMICS

LEAVE RECORD WITH NECESSARY ADJUSTMENT



TEACHER NAME :- Mr. MAHAJAN S.B. ( Associate Prof)

| MONTH     | DATE - CL/ML/DL | NECESSARY ADJUSTMENT                                 |
|-----------|-----------------|--|
| JUNE      | --              | --   |
| JULY      | 12, 12 - CL     | T.Y. - Mrs. SALUNKHE V.D.<br>S.Y. - DR. BANSODE M.N. |
| AUGUST    | --              | --   |
| SEPTEMBER | 30 - CL         | T.Y. - Mrs. SALUNKHE V.D.<br>S.Y. - DR. BANSODE M.N. |
| COTOBER   | --              | --   |
| NOVEMBER  | --              | --   |
| DECEMBER  | --              | --   |
| JANUARY   | --              | --   |
| FEBRUARY  | 24, 25 - CL     | S.Y. -Dr. JADHVAR R.B.<br>T.Y. - Mrs. SALUNKHE V.D.  |
| MARCH     | 23 - DL         | S.Y. -Dr. JADHVAR R.B.<br>T.Y. - Mrs. SALUNKHE V.D.  |
| APRIL     | --              | --   |

*Sujay*  
Head of Department

*Sujay*  
Subject Teacher

*P.P. Mahajan*  
Principal  
I/C PRINCIPAL  
SES'S S. M. Dadasaheb Limaye  
ACS College, Kalamboli,  
Tal :- Parvel, Dist :- Raigad.

Department of Economics  
S. M. D. L. College, Kalamboli.