

6.5.1


**Shirur Shikshan Prasarak Mandal's
Chandmal Tarachand Bora Arts, Commerce and Science College
Shirur, Dist.-Pune**

Certificate Course Committee 2020-21

The following Add-on/Certificate Courses were conducted by different departments during the academic year.

Sr. No.	Name of Add on /Certificate programs offered	Subject
1.	Certificate Course in Bhashan Kaushalya	Marathi
2.	Certificate Course in Anuvad ka Mahtva	Hindi
3.	Certificate Course in Communication Skills	English
4.	Certificate Course in Goods and Services Tax (GST)	Economics
5.	Certificate Course in Income Tax Procedure	Commerce
6.	Add-on Course in Vedic Mathematics	Mathematics
7.	Certificate Course in Fundamental Chemistry	Chemistry
8.	Add-on Course in Fundamentals of Surveying	Geography
9.	Add -on Course in Programming Principles and algorithms	BBACA
10.	Add-on Course in Environmental Awareness	BBACA
11.	Add-on Course in Personality and Soft Skills development	BBA
12.	Add-on Course in Environmental Awareness	BBA




Dr. K. C. Mohite
Principal
C. T. Bora College
Shirur, (Dist. Pune)

S.S.P.MANDAL'S
Chandmal Tarachand Bora College, Shirur
(Arts, Commerce & Science)

Academic Year: 2020-21

Department of Chemistry
(Certificate Course)

Title: Fundamentals of Chemistry

Course Co-ordinator

Prof. Smt.P.S.Tathe

Faculty:

Dr.P.S.Veerkar (H.O.D)

Dr.S.V.Patil

Prof.K.D.Badave

Prof.I.H.Pathan

Prof.S.H.Kawade

Prof.P.S.Tathe

Prof. A.N.Randhave

Prof.A.B.Salunkhe

Objectives of Course:

- This course is designed for M.Sc I (Organic and Analytical Chemistry) students.
- The purpose of this course is to form a bridge between UG and PG degree courses.
- Student will be able to prepare solutions of different concentrations from pure chemicals and also can prepare solutions from stock solutions.
- To have basic knowledge in Physical chemistry, Organic chemistry and Inorganic chemistry.
- To enhance the skill of students about use of scientific calculator.
- Library resources for Practical Work
- Introduction, calibration of equipment's used in Laboratory


Syllabus:


- Chemical kinetics
- Thermodynamics
- Reaction mechanism
- Types of Reactions
- Fundamental concepts of Inorganic chemistry
- Coordination chemistry
- Basic instrumental techniques
- Introduction, calibration of glassware's used in Laboratory
- Introduction, calibration of equipment's used in Laboratory
- Sample preparation for analysis
- Use of calculator in research work,
- Solution preparation in laboratory
- Purification of chemical compounds
- MSDS
- Spectroscopy
- Structural effects in Organic chemistry
- First Aid training


❖ Details of Lecture Arrangement

Time Table

Day Time	Day 1 3/02/2021	Day 2 4/02/2021	Day 3 5/02/2021	Day 4 6/02/2021	Day 5 8/02/2021	Day 6 9/02/2021
11.00-12.30pm	Opening Ceremony of Course Fundamentals of Chemistry	Chemical kinetics	Reaction mechanism	Use of calculator in research work	Fundamental concepts of Inorganic chemistry	Basic instrumental techniques.
1.00-2.30 pm	Library resources for Practical Work	Colligative Properties	Stereochemistry	Fundamental base units	Periodicity of elements	Structural effects in Organic Chemistry
	Day 7 10/02/2021	Day 8 11/02/2021	Day 9 12/02/2021	Day 10 13/02/2021	Day 11 15/02/2021	Day 12 16/02/2021
11.00-12.30pm	MSDS	Molecular Spectroscopy	Organic Spectroscopy	First aid training	Elements of symmetry	Oxidation Reduction reactions
1.00-2.30 pm	Calibration of equipment's used in Laboratory	Thermodynamics	Types of Reactions	Sample and Solution preparation for analysis	Coordination chemistry	Valedictory Function


Prof. P.S. Tathe
 Co-ordinator
 (Certificate course)


Dr. P.S. Yeerkar
 Head, Department of Chemistry
 Department of Chemistry,
 C. T. Bora College, Shirur
 Dist. Pune (Maharashtra)


Dr. K.C. Mohite
Principal
C. T. Bora College
 Shirur, (Dist. Pune)

S. S. P. Mandal's
Chandmal Tarachand Bora College, Shirur
Students-Teacher Guardian Scheme
Report of Activity (2020-2021)

In academic year 2020-21 college organized some student centric program under this Students-Teacher Guardian Scheme, the college invites parents of under graduate and post graduate students. The college organizes career guidance program to communicate various avenues available in different fields for the students in today's competitive world. It is also an effort to convey the parents about the availability of different activities, programs and courses in the college.

In the academic year 2020-21 orientation and counseling program is organized for the parents of under graduate students. As a part of this program online lecture was organized on 17 November, 2020 on Opportunities and Challenges of Online Education System for parents of graduate students in the guidance of respected Principal Dr. K. C. Mohite. As an expert he guided the parents on the new changes, flexibility and opportunities of online education system. 'Sir also highlighted challenges of online education system such as lack of digital infrastructure facilities, limited social interactions and questionable credibility of degrees.

In this program parent raised some questions about curriculum and also regarding student safety etc. Principal Dr. K. C. Mohite sir has resolved all the queries of the parents.



Dr. S. B. Bhoite
Coordinator,

Students-Teacher Guardian Scheme

STUDENT - TEACHER GUARDIAN SCHEME

✦ ABOUT COMMITTEE

- C.T. Bora College has a teacher guardian scheme, where teachers of the college take up the responsibility of safe guarding and nurturing the admitted students.
- The teacher act as buffer for the student and help them to get adapted to college environment.
- This scheme, which is perhaps the only one of its kind, guarantees additional assurance to the student and takes some burden off the parents and lessens their anxiety.
- In this scheme, 20 to 40 students are assigned to each teacher guardian (TG) of the institution per year.
- The guardianship of a responsible staff matters a lot, particularly during the first few months of a student stay at college.
- This scheme is available to offer support and advice to the student.
- The student are free to contact the guardian teacher with a wide range of worries , including personal , home and family relationship , depression , anxiety and loneliness.

✦ AREA AND SCOPE

- Institution has introduced this scheme to have one to one interaction with student.
- For a batch of about 20 to 40 students, a teacher is assigned the role of teacher-guardian. Teacher guardian works as a friend, philosopher and guide for this student.
- He keep the track of every student's day to day activities and observes daily attendance, test results, internal assessment , term end examination result and other related information of student .
- He encourages the student to participate in co-curricular & and extracurricular activities.

- He gives academic feedback to the parent /guardians regularly. He also counsels the students to solve difficulties encountered not only in a college campus but in their personal lives too.

✚ **Teacher Guardian act as a mentor to students and offers them emotional and academic support along with motivation on the following areas :**

1. To establish personal, institution relation with student
2. To know the social, economic and educational background of the student
3. To help student to enhance their skills.
4. To solve their academic problems.
5. To increase their attendance in college and class.
6. To prepare them to face challenges in life

✚ **AIMS AND OBJECTIVES**

- To adaptation the new student to the campus life in college.
- To provide academic counseling.
- To enlighten the students of professional ethic and conduct.
- To ease the trauma of transfer to new place.
- To communicate with wards parent.
- Providing emotional support to student on individual basis.
- Helping student overcome home sickness.
- Establishing report between teacher, student, and parent.
- Monitoring attendance and behavioral aspect of every student
- Identifying weak areas and working out remedies helping students thereby Taking their complete care

✚ **WORKING**

- Distribution of students to teachers.
- Meeting of guardian teacher with student.
- Form filling by student.
- Guidance to student.
- Record of performance.
- Counseling to student

↓ RULES

- 1) Total student of each class are distributed in the groups depending on number of teachers teaches to them and for each group one teacher is appointed as students guardian teacher.
- 2) Guardian teacher scheme forms are filled for each guardian who gives all information about overall performance of student.
- 3) To meet students every month.

✦ OUTPUT OF SCHEME

- 1) Attendance of student increases.
- 2) Overall performance of student in study increases.
- 3) Students become bold to solve their problems.
- 4) Co operative nature of student increases.
- 5) It helps to develop relation between student & teacher
- 6) It helps to maintain discipline in college
- 7) It helps students to enhance academic performance

Sample Performance Report:

Shirur Shikshan Prasarak Mandal's Chandmal Tarachand Bora College, Shirur, Dist: Pune Student's Guardian Scheme (A.Y. 2014-15)						
Guardian Teacher:			Dept:			
PERFORMANCE REPORT OF THE STUDENTS						
Class:		Division:		Roll No.: From..... To		
Special Subject:						
Roll No.	Name of student	Remarks by Guardian Teacher			Mobile Number	Signature
		*Attendance	*Test/Tutorials	*Performance after counseling		

* Performance- Good/Satisfactory/Poor/Bad

Date:/...../.....

Signature




Dr. K. E. Mohite
Principal
C. T. Bora College
Shirur, (Dist. Pune)