



SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S

# SHRI SHIVAJI ARTS, COMMERCE AND SCIENCE COLLEGE, MOTALA

(NAAC Re-accredited with B<sup>+</sup> Grade with CGPA 2.64)

ISO 9001: 2015 Certified College



AQAR 2022-23

Assessment & Accreditation by NAAC

## CRITERION – I CURRICULAR ASPECTS

QnM – 1.2.2

Number of Certificate/Value added  
Courses offered and online courses of  
MOOCs, SWAYAM, NPTEL etc.



# Botany

**Certificate course 2022-23**  
**(Organic Farming)**

10/23/2020

Sant Gadge Baba Amravati University, Amravati Mail - Approval of fresh programmes / courses under NSQF for the year 2020-21



Arts, Commerce and Science Mahavidyalaya Motala &lt;acsm317@sgbau.ac.in&gt;

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

1 message

nsqfugc2020@gmail.com <nsqfugc2020@gmail.com>  
To: acsm317@sgbau.ac.in

Thu, Oct 22, 2020 at 4:04 PM

Dear Sir/Madam,

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

Programme/s	Course/s
Diploma	Information Technology and Web Designing
Certificate	Organic Farming

The institution must adhere to the following terms and conditions:

1. The institutions shall run the courses in accordance with the provisions of the UGC Guidelines for Providing Skill-based Education under National Skills Qualifications Framework.
2. The institution shall meet the requirements of infrastructure and laboratory facilities for running the skill-based courses.
3. The institutions which are recommended for running skill courses in the fields like medical, law etc. shall meet the parameters specified by the respective regulatory bodies/professional councils before starting those courses.
4. The institutions shall run the courses on regular mode only and the courses shall not be run on online/distance education mode and through franchise agreement / arrangements.
5. The institution shall furnish details regarding students admitted (course-wise) for the forthcoming academic session on the online portal by 30.11.2020. The link to the portal is <https://nsqf.ugc.ac.in/>

With regards,

Yours faithfully,

(Dr. Mriganka Sekhar Sarma)  
(Education Officer)

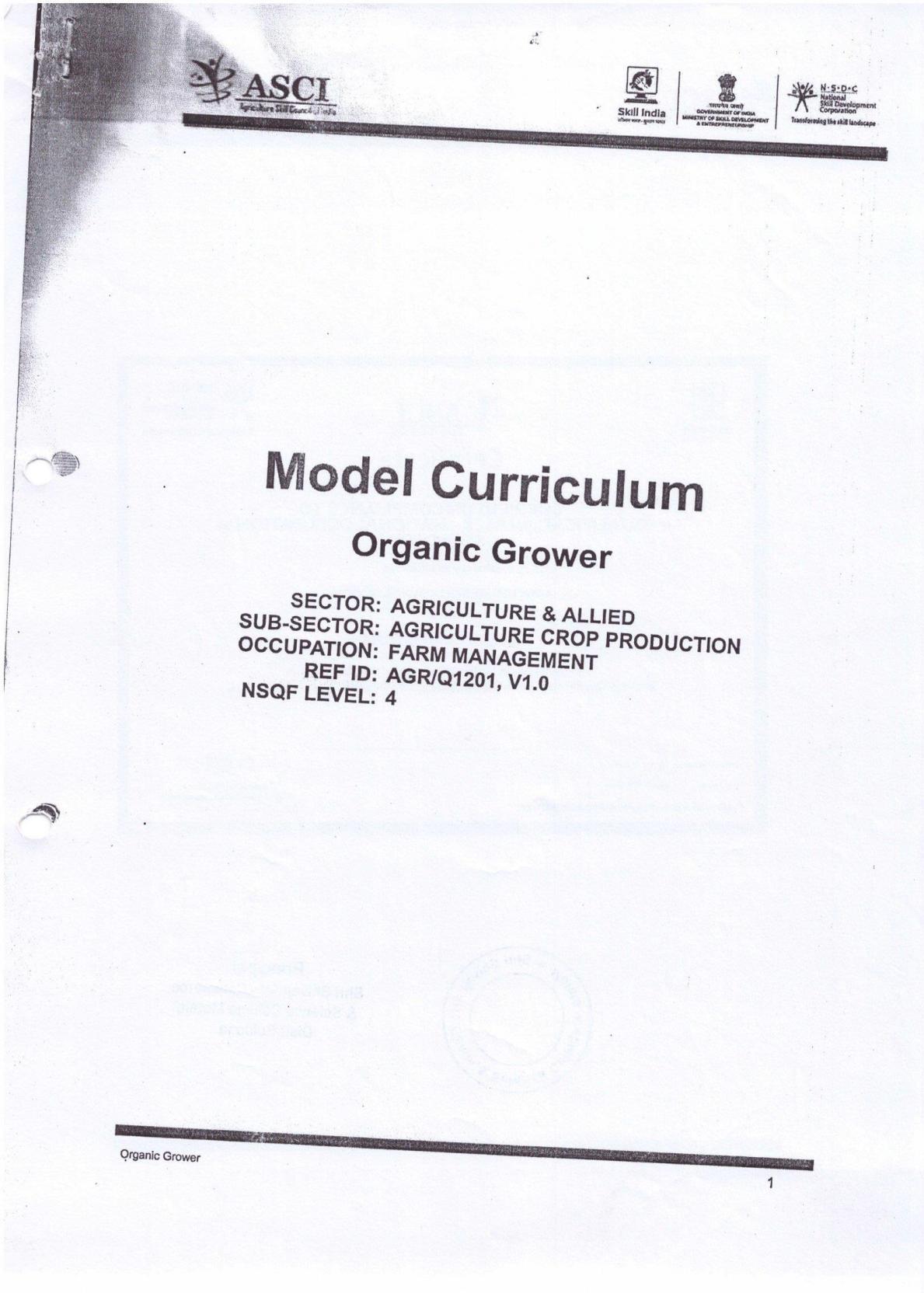
Arts, Commerce & Science College  
At Post Tq Old Malkapur Road Motala

IQAC COORDINATOR  
Shri Shivaji Arts, Commerce  
and Science College, Motala



Principal  
Shri Shivaji Arts, Commerce  
& Science College Motala  
Dist. Buldana

<https://mail.google.com/mail/u/1?ik=8cfc7c754f&view=pt&search=all&permthid=thread-f%3A1681247848638779956&siml=msg-f%3A168124784863...> 1/1



# Model Curriculum

## Organic Grower

SECTOR: AGRICULTURE & ALLIED  
SUB-SECTOR: AGRICULTURE CROP PRODUCTION  
OCCUPATION: FARM MANAGEMENT  
REF ID: AGR/Q1201, V1.0  
NSQF LEVEL: 4

Organic Grower



## TABLE OF CONTENTS

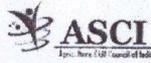
1. Curriculum	04
2. Trainer Prerequisites	09
3. Annexure: Assessment Criteria	10

  
 IQAC CO-ORDINATOR  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala

  
 Principal  
 Shri Shivaji Arts, Commerce  
 & Science College Motala  
 Distt. Buldana



Organic Grower

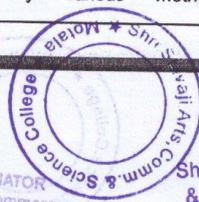


This course encompasses 10 out of 10 National Occupational Standards (NOS) of "Organic Grower" Qualification Pack issued by "Agriculture Skill Council of India".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<b>Introduction</b>  Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 00:00  Corresponding NOS Code Bridge Module	<ul style="list-style-type: none"> <li>• General Instructions to the Trainee</li> <li>• Understand the Role of a Organic Grower</li> <li>• Understand and study the Scopes and Opportunities of Organic Farming</li> <li>• Study the Need of Organic Farming in India</li> </ul>	Laptop, white board, marker, projector
2	<b>Undertake planning for Organic Farming</b>  Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00  Corresponding NOS Code AGR/N1201	<ul style="list-style-type: none"> <li>• Selection of Crop</li> <li>• Understand the need of safe farming practices</li> <li>• Understand and practice the type of safe farming practices</li> <li>• Transition to Organic Farming                             <ul style="list-style-type: none"> <li>- Estimate the cost and time of Organic Farming</li> <li>- Budget estimation</li> <li>- Understand the phased approach to be taken to transition to organic farming</li> </ul> </li> <li>• Prepare Crop portfolios – Multi crop, Feasible crop</li> <li>• Prepare Yearly Plan / Crop Schedule</li> </ul>	Laptop, white board, marker, projector, Record Keeping Book, receipts, voucher
3	<b>Seed Selection &amp; treatment under organic farming</b>  Theory Duration (hh:mm) 10:00  Practical Duration (hh:mm) 10:00  Corresponding NOS Code AGR/N1202	<ul style="list-style-type: none"> <li>• Crop Selection                             <ul style="list-style-type: none"> <li>- Identify main crop and companion crop</li> <li>- Plan for intercrop, mixed crop, relay crop, trap crop etc</li> <li>- Plan for crop rotation cycle</li> <li>- Crop schedule</li> </ul> </li> <li>• Selection of seed variety – insect pest resistant, non genetically modified etc</li> <li>• Seed Treatment                             <ul style="list-style-type: none"> <li>- understand the organic practices for seed treatment</li> <li>- identify inputs/material to be used for organic seed treatment</li> <li>- preparation of inputs for seed treatment</li> <li>- implementation of seed treatment</li> </ul> </li> </ul>	Laptop, white board, Marker, Laptop, projector, bio inputs, bio fertilizers
4	<b>Soil nutrient management under Organic farming</b>  Theory Duration (hh:mm) 10:00	<ul style="list-style-type: none"> <li>• Understand the concept of soil nutrient management under organic farming</li> <li>• Understand the Soil Activation and Soil enhancement                             <ul style="list-style-type: none"> <li>- understand importance of top soil in organic cultivation</li> <li>- identify various methods of</li> </ul> </li> </ul>	White Board, Marker, Laptop, projector, bio fertilizers, soil testing tools/equipments, FYM, compost etc

Organic Grower

IQAC CO-ORDINATOR  
Shri Shivaji Arts, Commerce  
and Science College, Motala



Principal  
Shri Shivaji Arts, Commerce  
& Science College Motala  
Distt. Buldana

5

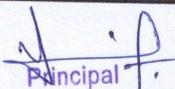


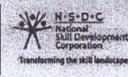
Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<b>Corresponding NOS Code</b> AGR/N1206		
8	<b>Harvest and Post – harvest management under organic farming</b>  Theory Duration (hh:mm) 05:00  Practical Duration (hh:mm) 10:00  Corresponding NOS Code AGR/N1207	<ul style="list-style-type: none"> <li>Harvesting of the crop: Crop maturity, moisture content during harvesting, etc</li> <li>Understand about the physical admixture during harvesting</li> <li>Harvesting methods and handling of harvested crops</li> <li>Understand the Post harvest management practices like grading, storage, organically acceptable fumigation, cold storage, packaging and marketing</li> </ul>	White board, Marker, Laptop, projector
9	<b>Undertake Quality assurance &amp; certification in Organic Farming</b>  Theory Duration (hh:mm) 10:00  Practical Duration (hh:mm) 20:00  Corresponding NOS Code AGR/N1208	<ul style="list-style-type: none"> <li>Third party certification process</li> <li>Risk management in compliance of standards</li> <li>Participatory guarantee system</li> <li>Documentation in third party and PGS certification</li> <li>Documents needed for sale of organic produce and traceability</li> </ul>	White board, Marker, Laptop, projector
10	<b>Undertake business of Organic farming</b>  Theory Duration (hh:mm) 5:00  Practical Duration (hh:mm) 15:00  Corresponding NOS Code AGR/N1209	<ul style="list-style-type: none"> <li>Economics of organic farming</li> <li>Connecting with the market and market intelligence</li> <li>Direct marketing</li> </ul>	White board, Marker, Laptop, projector
11	<b>Maintain Health &amp; Safety at the work place</b>  Theory Duration (hh:mm) 05:00	<ul style="list-style-type: none"> <li>Perform General safety Rules</li> <li>Gain Knowledge of various health hazards relevant to workplace and basic first aid training.</li> <li>Understand the basic safety checks and other common reported hazards before all farm operation</li> </ul>	White Board, Marker, Laptop, projector, Nose masks, first aid kit

Organic Grower

  
 IQAC CO-ORDINATOR  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala



  
 Principal  
 Shri Shivaji Arts, Commerce  
 & Science College Motala  
 Distt. Buldana



**Trainer Prerequisites for Job role: “Organic Grower” mapped to Qualification Pack: “AGR/Q1201, v1.0”**

Sr. No.	Area	Details
1	<b>Description</b>	Trainer is responsible for providing the education on cultivation of organic crops as per the organic package of practices recommended for a particular agro-climate zone, using approaches like diversity, cattle integration, on-farm input generation, biomass recycling, natural resource use optimization in exclusion of synthetic inputs directly or indirectly and sell the organic produce as per the competitive market prices without distress sale.
2	<b>Personal Attributes</b>	Trainer should be Subject Matter Specialist. He/ She should have good communication and observation skill, leadership skill, practical oriented skill
3	<b>Minimum Educational Qualifications</b>	Diploma
4a	<b>Domain Certification</b>	Certified for Job Role: “Organic Grower” mapped to QP: “AGR/Q1201, v1.0”. Minimum accepted score is 80%
4b	<b>Platform Certification</b>	Recommended that the Trainer is certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “MEP/Q0102”. Minimum accepted % as per respective SSC guidelines is 80%.
5	<b>Experience</b>	<ul style="list-style-type: none"> <li>• M Sc (Agriculture / Horticulture /Botany/Forestry)</li> <li>• B Sc. (Agriculture / Horticulture /Botany / Forestry)</li> <li>• Any graduate with 3 years of relevant experience</li> <li>• Diploma with 3 years of relevant experience</li> <li>• 10+2 with 5 years of relevant experience</li> </ul>



Assessable Outcome	Assessment Criteria	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical
1.AGR/N1201 Undertake planning for Organic Farming	PC1. understand the detrimental effects of unsafe farming practices on health and environment	120	5	2	3
	PC2.get acquainted with different kinds of safe farming practices that exist and their characteristics		5	2	3
	PC3.understand the pros and cons of conventional farming vs. organic farming		10	5	5
	PC4.understand core principles of organic farming		10	5	5
	PC5.understand the effects of organic farming on costs and revenue		15	7	8
	PC6.understand the time and effort commitments required for transition to organic farming		5	3	2
	PC7.understand the phased approach to be taken to transition to organic farming		5	3	2
	PC8.understand the need for multi-cropping in organic farming		10	5	5
	PC9.create feasible crop portfolios		10	5	5
	PC10.implement multi-crop projects effectively		10	5	5
	PC11.understand increased crop vulnerability in organic farming		5	2	3
	PC12.identify seasonal stress on various types of crops		10	5	5
	PC13.identify right crops for rotation		10	5	5
	PC14.create yearly plan		10	6	4
<b>Total</b>		<b>120</b>	<b>60</b>	<b>60</b>	

Organic Grower



Assessable Outcome	Assessment Criteria	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical
3.AGR/N1203 Soil Nutrient Management under Organic Farming	PC1.understand importance of top soil in organic cultivation	180	5	2	3
	PC2.identify various methods of activating microbial activity in top soil		10	5	5
	PC3.prepare various organic inputs that can increase soil microbial activity		10	5	5
	PC4.apply soil activating inputs effectively		10	5	5
	PC5.undertake soil testing at authorized centres		10	5	5
	PC6.understand soil test data for soil amendment and manuring		5	2	3
	PC7.select appropriate crops suiting to soil condition		10	5	5
	PC8.calculate nutrient needs based on test report and local crop recommendations		10	5	5
	PC9.prepare the land to get appropriate tilth		5	3	2
	PC10.identify various methods adopted in organic farming for building organic matter in soil		10	5	5
	PC11.grow green manure crop and incorporate biomass		10	5	5
	PC12.use farmyard manure & mineral fortified compost		10	5	5
	PC13.use other biomass as mulch or soil cover		10	5	5
	PC14.prepare vermicompost & vermiwash		15	7	8
	PC15.prepare dung-urine slurries		5	3	2

Organic Grower



Assessable Outcome	Assessment Criteria	120 Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical
5.AGR/N1205 Irrigation Management under Organic Farming	PC1.identify characteristics of good irrigation systems	120	15	7	8
	PC2.identify advantages & disadvantages of irrigation channels and watering through hose, buckets etc		15	8	7
	PC3.interact with micro irrigation expert and get feedback on the usage of specific applicable irrigation methods to be adopted		10	5	5
	PC4.ensure appropriate water supply at various life stages of the crop as per each stage requirement		20	10	10
	PC5.ensure spread of water in the entire field		15	7	8
	PC6.ensure proper water drainage		10	5	5
	PC7.adopt micro irrigation techniques (drip irrigation using appropriate equipments, sprinklers) based on the requirement of specific crops		20	10	10
	PC8.identify disease due to increase in moisture/water content and take measures to control them		15	7	8
	<b>Total</b>		<b>120</b>	<b>59</b>	<b>61</b>
6.AGR/N1206 Integrated Pest and Disease Management under Organic Farming	PC1.identify different types of pests	180	5	2	3
	PC2.identify stages of crop and pest incidence		10	5	5
	PC3.diagnose symptoms and extent of damage		10	5	5
	PC4.understand major crop diseases and identify the specific disease in the crop		10	5	5
	PC5.identify crop stage and disease incidence disease calendar		5	2	3
	PC6.identify early symptoms of various types of diseases		10	5	5
<b>Assessable</b>	<b>Assessment Criteria</b>	<b>Total</b>	<b>Out of</b>	<b>Marks Allocation</b>	

Organic Grower



Assessable Outcome	Assessment Criteria	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical
7.AGR/N1207 Harvest and Post-harvest Management under Organic Farming	PC22.prepare different bio-pesticides at farm	120	5	2	3
	PC23.use various botanical extracts for different types of pest & diseases		5	2	3
	PC24.apply recommended dose of bio-inputs at appropriate time & interval		10	5	5
	PC25.use chemical alternatives acceptable in organic farming		10	5	5
	<b>Total</b>		<b>180</b>	<b>90</b>	<b>90</b>
	PC1. identify the appropriate harvesting method		10	5	5
	PC2. harvest the crop at appropriate stage		10	5	5
	PC3. harvest the crop at right time		10	5	5
	PC4. harvest the crop based on use and distance from the market		10	5	5
	PC5. undertake grading of the crops		15	7	8
	PC6.maintain ideal storage condition		15	9	6
	PC7.use organically acceptable fumigation systems during storage		10	5	5
	PC8. use cold storage facility		15	8	7
	PC9. undertake packaging as per the requirement of the client/buyer		10	5	5
	PC10. transport organic produce as detailed by the client/buyer		5	2	3
PC11. undertake marketing of the crop	10	5	5		
<b>Total</b>	<b>120</b>	<b>61</b>	<b>59</b>		

Organic Grower



Assessable Outcome	Assessment Criteria	Total Marks	Marks Allocation		
			Out of	Theory	Skills Practical
	PC15.comply to non-compliances, if any raised by the certification body		3	1	2
	PC16.ensure to follow-up for certification after the inspection		2	1	1
	PC17.release the stock for sale with Certification Mark (India Organic Logo) only after certification is granted		3	2	1
	PC18.understand procedure for risk assessment		3	2	1
	PC19.undertake parallel and split production, part conversion		2	1	1
	PC20.use machine tools averting contamination		2	1	1
	PC21.use water for irrigation averting contamination		2	1	1
	PC22.prevent contamination by water and air drift		2	1	1
	PC23.document risk management initiatives		2	1	1
	PC24.understand PGS certification system in brief		5	3	2
	PC25.adhere to the basic requirements for PGS group formation		3	1	2
	PC26.maintain documentation for group making, PGS pledge		3	2	1
	PC27.adopt PGS standards		2	1	1
	PC28.participate regularly in meetings and share vision & operational issues		2	1	1
	PC29.keep transparency and horizontality in operation		2	1	1
	PC30.understand basic documentations on field history		2	1	1
	PC31.maintain field/ farm, diary		5	2	3
	PC32.maintain internal inspection sheets and peer appraisals		2	1	1

Organic Grower



Assessable Outcome	Assessment Criteria	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical
	PC8.undertake farm-level value addition		2	1	1
	PC9.undertake collective marketing by farmer groups		2	1	1
	PC10.understand branding advantages of organic produce		2	1	1
	PC11.identify major channels for sales of organic produce including physical and online		2	1	1
	PC12.maintain networking with retail chains and bulk buyers		2	1	1
	PC13.create direct connect with consumers		2	1	1
	PC14.use on-line market intelligence tools		2	1	1
	PC15.target consumer based on SEC segmentation		4	2	2
	PC16.organize of local haats		2	1	1
	PC17.release publicity literature and campaigns		1	0	1
	PC18.provide information on quality and benefits of organic foods		3	2	1
	PC19.demonstrate quality procedures and documents		4	2	2
	PC20.keep presence in area for long term		4	2	2
	PC21.convince consumers to register for regular supplies		4	2	2
	PC22.create a system for weekly supplies in Box		4	2	2
	<b>Total</b>		<b>60</b>	<b>30</b>	<b>30</b>
10. AGR/N990	PC1. undertake basic safety checks before operation of all machinery and vehicles and	60	5	3	2

Organic Grower

21



	Percentage Weightage:			50%	50%
	Minimum Pass% to qualify (aggregate):			70%	

Organic Grower



ASCI		Grade Sheet		N.S.D.C. NATURAL SOLUBLE COMPOUND DISTRIBUTING THE SKILL THROUGH EDUCATION	
College Name:- Shri Shivaji Arts, Commerce and Science College			Location:- Behind Sakshi Restaurant, Malkapur Road, Motala, Dist. Buldhana, Maharashtra 443103		
Course Name:- B.Voc Course In Organic Farming			Semester:- 1 Level:- 4		
Date of Assessment :- 16-JUN-2023			Assessor :- Mahesh Sambhaji Nikam		
Total Student:- 16			Present:- 16 Absent- 0		
S. No.	Name	Father Name	Grade	Attendance Status (Present/Absent)	
1	Gokul Gajanan Shinde		O	Present	
2	Tejas Rajendra Sonune		O	Present	
3	Milind Ashok Athawale		A+	Present	
4	Komal Ganesh Dikkar		A+	Present	
5	Akshaya Gajanan Sarag		O	Present	
6	Nikita Suryabhan Ingle		O	Present	
7	Vaishnavi Sunil Tomar		O	Present	
8	Yasmin Parvin Sayyed Sadroddin		A	Present	
9	Asha Suryabhan Ingle		A+	Present	
10	Megha Kailash Tomar		O	Present	
11	Gopal Shrikrushna Rajguru		O	Present	
12	Sandip Arun Jadhao		O	Present	
13	Suhas Gajanan Shinde		O	Present	
14	Pallavi Parshuram Phund		A+	Present	
15	Shraddha Dattappa Sunat		O	Present	
16	Nilesh Diwakar Badhe		O	Present	

Grade	Meaning	
O	Outstanding	≥48
A+	Excellent	45-47
A	Very Good	42-44
B+	Good	39-41
B	Above Average	36-38
C	Average	33-35
P	Pass	30-32
F	Fail	
Ab	Absent	

**Shri Shivaji Arts, Commerce and Science College, Motala**  
**Dist. Buldana.**

**Department of Botany**

**Certificate Course in Organic Farming under the NSQF**

**Admission List of Students (Session 2022-23)**

Sr No.	Name of Student	Email Id	Adhaar No.	Contact No.
1	Gokul Gajanan Shinde	<a href="mailto:gokulshide882003@gamil.com">gokulshide882003@gamil.com</a>	908673317340	9022991748
2	Tejas Rajendra Sonune	<a href="mailto:tejassonune14@gmail.com">tejassonune14@gmail.com</a>	884183055562	8261923708
3	Milind Ashok Athawale	<a href="mailto:milindathawale525873@gmail.com">milindathawale525873@gmail.com</a>	501213180944	8459301170
4	Komal Ganesh Dikkar	<a href="mailto:komaldikkar3@gmail.com">komaldikkar3@gmail.com</a>	653760040634	8767854709
5	Akshaya Gajanan Sarag	<a href="mailto:akshayasarag@gmail.com">akshayasarag@gmail.com</a>	639571695554	7385281871
6	Nikita Suryabhan Ingle	<a href="mailto:inglenikita716@gmail.com">inglenikita716@gmail.com</a>	663943985706	9209321427
7	Vaishnavi Sunil Tomar	<a href="mailto:vaishanvitomar12@gmail.com">vaishanvitomar12@gmail.com</a>	257252415418	9921728811
8	Yasmin Parvin Sayyed Sadroddin	<a href="mailto:saiyyedyasmeen29@gmail.com">saiyyedyasmeen29@gmail.com</a>	330789127654	9665001634
9	Asha Suryabhan Ingle	<a href="mailto:suryabhanpatil74@gmail.com">suryabhanpatil74@gmail.com</a>	793692659263	9922622272
10	Megha Kailash Tomar	<a href="mailto:tomarnegha129@gmail.com">tomarnegha129@gmail.com</a>	251476148382	8767634672
11	Gopal Shrikrushna Rajguru	<a href="mailto:gopalrajguru1999@gmail.com">gopalrajguru1999@gmail.com</a>	711250273421	9146237858
12	Sandip Arun Jadhao	<a href="mailto:sandipjadhao0315@gmail.com">sandipjadhao0315@gmail.com</a>	558531552650	8554047213
13	Suhas Gajanan Shinde	<a href="mailto:suhasgs100@gmail.com">suhasgs100@gmail.com</a>	920173158642	9158918440
14	Shraddha Dattappa Sunat	<a href="mailto:shraddhasunat123@gmail.com">shraddhasunat123@gmail.com</a>	754203409131	9511943390
15	Pallavi Parshuram Phund	<a href="mailto:pallaviphund6951@gmail.com">pallaviphund6951@gmail.com</a>	342189313136	9172040639
16	Nilesh Diwakar Badhe	<a href="mailto:nilpatil2600@gmail.com">nilpatil2600@gmail.com</a>	439603636505	9503901301

**Shri Shivaji Arts Commerce Science College, Motala**  
**Dist. Buldana**  
**Department of Botany**  
**Certificate Course in Organic Farming under NSQF**  
**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	<del>RSonune</del>	<del>RSonune</del>	<del>RSonune</del>	<del>RSonune</del>	<del>RSonune</del>	<del>RSonune</del>
3	Milind Ashok Athawale	<del>MAthawale</del>	<del>MAthawale</del>	<del>MAthawale</del>	<del>MAthawale</del>	<del>MAthawale</del>	<del>MAthawale</del>
4	Komal Ganesh Dikkar	<del>KDikkar</del>	<del>KDikkar</del>	<del>KDikkar</del>	<del>KDikkar</del>	<del>KDikkar</del>	<del>KDikkar</del>
5	Akshaya Gajanan Sarag	<del>ASarag</del>	<del>ASarag</del>	<del>ASarag</del>	<del>ASarag</del>	<del>ASarag</del>	<del>ASarag</del>
6	Nikita Suryabhan Ingle	<del>NIngle</del>	<del>NIngle</del>	<del>NIngle</del>	<del>NIngle</del>	<del>NIngle</del>	<del>NIngle</del>
7	Vaishnavi Sunil Tomar	<del>VSTomar</del>	<del>VSTomar</del>	<del>VSTomar</del>	<del>VSTomar</del>	<del>VSTomar</del>	<del>VSTomar</del>
8	Yasmin Parvin Sayyed Sadroddin	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>
9	Asha Suryabhan Ingle	<del>ASingle</del>	<del>ASingle</del>	<del>ASingle</del>	<del>ASingle</del>	<del>ASingle</del>	<del>ASingle</del>
10	Megha Kailash Tomar	<del>MTomar</del>	<del>MTomar</del>	<del>MTomar</del>	<del>MTomar</del>	<del>MTomar</del>	<del>MTomar</del>
11	Gopal Shrikrushna Rajguru	<del>GRajguru</del>	<del>GRajguru</del>	<del>GRajguru</del>	<del>GRajguru</del>	<del>GRajguru</del>	<del>GRajguru</del>
12	Sandip Arun Jadhao	<del>SJadhao</del>	<del>SJadhao</del>	<del>SJadhao</del>	<del>SJadhao</del>	<del>SJadhao</del>	<del>SJadhao</del>
13	Suhas Gajanan Shinde	<del>SShinde</del>	<del>SShinde</del>	<del>SShinde</del>	<del>SShinde</del>	<del>SShinde</del>	<del>SShinde</del>
14	Pallavi Parshuram Phund	<del>PPPhund</del>	<del>PPPhund</del>	<del>PPPhund</del>	<del>PPPhund</del>	<del>PPPhund</del>	<del>PPPhund</del>
15	Shraddha Dattappa Sunat	<del>SDSunat</del>	<del>SDSunat</del>	<del>SDSunat</del>	<del>SDSunat</del>	<del>SDSunat</del>	<del>SDSunat</del>
16	Nilesh Diwakar Badhe	<del>NDBadhe</del>	<del>NDBadhe</del>	<del>NDBadhe</del>	<del>NDBadhe</del>	<del>NDBadhe</del>	<del>NDBadhe</del>

**Shri Shivaji Arts Commerce Science College, Motala**  
**Dist. Buldana**  
**Department of Botany**  
**Certificate Course in Organic Farming under NSQF**  
**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	<del>RSonune</del>	<del>RSonune</del>	<del>RSonune</del>	<del>RSonune</del>	<del>RSonune</del>	<del>RSonune</del>
3	Milind Ashok Athawale	<del>MAthawale</del>	<del>MAthawale</del>	<del>MAthawale</del>	<del>MAthawale</del>	<del>MAthawale</del>	<del>MAthawale</del>
4	Komal Ganesh Dikkar	<del>KDikkar</del>	<del>KDikkar</del>	<del>KDikkar</del>	<del>KDikkar</del>	<del>KDikkar</del>	<del>KDikkar</del>
5	Akshaya Gajanan Sarag	<del>ASarag</del>	<del>ASarag</del>	<del>ASarag</del>	<del>ASarag</del>	<del>ASarag</del>	<del>ASarag</del>
6	Nikita Suryabhan Ingle	<del>NIngle</del>	<del>NIngle</del>	<del>NIngle</del>	<del>NIngle</del>	<del>NIngle</del>	<del>NIngle</del>
7	Vaishnavi Sunil Tomar	<del>VSTomar</del>	<del>VSTomar</del>	<del>VSTomar</del>	<del>VSTomar</del>	<del>VSTomar</del>	<del>VSTomar</del>
8	Yasmin Parvin Sayyed Sadroddin	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>
9	Asha Suryabhan Ingle	<del>ASingle</del>	<del>ASingle</del>	<del>ASingle</del>	<del>ASingle</del>	<del>ASingle</del>	<del>ASingle</del>
10	Megha Kailash Tomar	<del>MTomar</del>	<del>MTomar</del>	<del>MTomar</del>	<del>MTomar</del>	<del>MTomar</del>	<del>MTomar</del>
11	Gopal Shrikrushna Rajguru	<del>GRajguru</del>	<del>GRajguru</del>	<del>GRajguru</del>	<del>GRajguru</del>	<del>GRajguru</del>	<del>GRajguru</del>
12	Sandip Arun Jadhao	<del>SJadhao</del>	<del>SJadhao</del>	<del>SJadhao</del>	<del>SJadhao</del>	<del>SJadhao</del>	<del>SJadhao</del>
13	Suhas Gajanan Shinde	<del>SShinde</del>	<del>SShinde</del>	<del>SShinde</del>	<del>SShinde</del>	<del>SShinde</del>	<del>SShinde</del>
14	Pallavi Parshuram Phund	<del>PPPhund</del>	<del>PPPhund</del>	<del>PPPhund</del>	<del>PPPhund</del>	<del>PPPhund</del>	<del>PPPhund</del>
15	Shraddha Dattappa Sunat	<del>SDSunat</del>	<del>SDSunat</del>	<del>SDSunat</del>	<del>SDSunat</del>	<del>SDSunat</del>	<del>SDSunat</del>
16	Nilesh Diwakar Badhe	<del>NDBadhe</del>	<del>NDBadhe</del>	<del>NDBadhe</del>	<del>NDBadhe</del>	<del>NDBadhe</del>	<del>NDBadhe</del>

**Shri Shivaji Arts Commerce Science College, Motala**

**Dist. Buldana**

**Department of Botany**

**Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune
3	Milind Ashok Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale
4	Komal Ganesh Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar
5	Akshaya Gajanan Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag
6	Nikita Suryabhan Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle
7	Vaishnavi Sunil Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar
8	Yasmin Parvin Sayyed Sadroddin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin
9	Asha Suryabhan Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle
10	Megha Kailash Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar
11	Gopal Shrikrushna Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru
12	Sandip Arun Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao
13	Suhas Gajanan Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde
14	Pallavi Parshuram Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund
15	Shraddha Dattappa Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat
16	Nilesh Diwakar Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe

**Shri Shivaji Arts Commerce Science College, Motala**

**Dist. Buldana**

**Department of Botany**

**Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune
3	Milind Ashok Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale
4	Komal Ganesh Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar
5	Akshaya Gajanan Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag
6	Nikita Suryabhan Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle
7	Vaishnavi Sunil Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar
8	Yasmin Parvin Sayyed Sadroddin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin
9	Asha Suryabhan Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle
10	Megha Kailash Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar
11	Gopal Shrikrushna Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru
12	Sandip Arun Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao
13	Suhas Gajanan Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde
14	Pallavi Parshuram Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund
15	Shraddha Dattappa Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat
16	Nilesh Diwakar Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe

**Shri Shivaji Arts Commerce Science College, Motala**  
**Dist. Buldana**  
**Department of Botany**  
**Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	<del>Tejas</del>	<del>Tejas</del>	<del>Tejas</del>	<del>Tejas</del>	<del>Tejas</del>	<del>Tejas</del>
3	Milind Ashok Athawale	<del>Milind</del>	<del>Milind</del>	<del>Milind</del>	<del>Milind</del>	<del>Milind</del>	<del>Milind</del>
4	Komal Ganesh Dikkar	<del>Komal</del>	<del>Komal</del>	<del>Komal</del>	<del>Komal</del>	<del>Komal</del>	<del>Komal</del>
5	Akshaya Gajanan Sarag	<del>Akshaya</del>	<del>Akshaya</del>	<del>Akshaya</del>	<del>Akshaya</del>	<del>Akshaya</del>	<del>Akshaya</del>
6	Nikita Suryabhan Ingle	<del>Nikita</del>	<del>Nikita</del>	<del>Nikita</del>	<del>Nikita</del>	<del>Nikita</del>	<del>Nikita</del>
7	Vaishnavi Sunil Tomar	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>
8	Yasmin Parvin Sayyed Sadroddin	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>
9	Asha Suryabhan Ingle	<del>Asha</del>	<del>Asha</del>	<del>Asha</del>	<del>Asha</del>	<del>Asha</del>	<del>Asha</del>
10	Megha Kailash Tomar	<del>Megha</del>	<del>Megha</del>	<del>Megha</del>	<del>Megha</del>	<del>Megha</del>	<del>Megha</del>
11	Gopal Shrikrushna Rajguru	<del>Gopal</del>	<del>Gopal</del>	<del>Gopal</del>	<del>Gopal</del>	<del>Gopal</del>	<del>Gopal</del>
12	Sandip Arun Jadhao	<del>Sandip</del>	<del>Sandip</del>	<del>Sandip</del>	<del>Sandip</del>	<del>Sandip</del>	<del>Sandip</del>
13	Suhas Gejanan Shinde	<del>Suhas</del>	<del>Suhas</del>	<del>Suhas</del>	<del>Suhas</del>	<del>Suhas</del>	<del>Suhas</del>
14	Pallavi Parshuram Phund	<del>P.P.Phund</del>	<del>P.P.Phund</del>	<del>P.P.Phund</del>	<del>P.P.Phund</del>	<del>P.P.Phund</del>	<del>P.P.Phund</del>
15	Shraddha Dattappa Sunat	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>
16	Nilesh Diwakar Badhe	<del>Nilesh</del>	<del>Nilesh</del>	<del>Nilesh</del>	<del>Nilesh</del>	<del>Nilesh</del>	<del>Nilesh</del>

**Shri Shivaji Arts Commerce Science College, Motala**  
**Dist. Buldana**  
**Department of Botany**  
**Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	<del>Tejas</del>	<del>Tejas</del>	<del>Tejas</del>	<del>Tejas</del>	<del>Tejas</del>	<del>Tejas</del>
3	Milind Ashok Athawale	<del>Milind</del>	<del>Milind</del>	<del>Milind</del>	<del>Milind</del>	<del>Milind</del>	<del>Milind</del>
4	Komal Ganesh Dikkar	<del>Komal</del>	<del>Komal</del>	<del>Komal</del>	<del>Komal</del>	<del>Komal</del>	<del>Komal</del>
5	Akshaya Gajanan Sarag	<del>Akshaya</del>	<del>Akshaya</del>	<del>Akshaya</del>	<del>Akshaya</del>	<del>Akshaya</del>	<del>Akshaya</del>
6	Nikita Suryabhan Ingle	<del>Nikita</del>	<del>Nikita</del>	<del>Nikita</del>	<del>Nikita</del>	<del>Nikita</del>	<del>Nikita</del>
7	Vaishnavi Sunil Tomar	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>	<del>V.S.Tomar</del>
8	Yasmin Parvin Sayyed Sadroddin	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>	<del>Yasmin</del>
9	Asha Suryabhan Ingle	<del>Asha</del>	<del>Asha</del>	<del>Asha</del>	<del>Asha</del>	<del>Asha</del>	<del>Asha</del>
10	Megha Kailash Tomar	<del>Megha</del>	<del>Megha</del>	<del>Megha</del>	<del>Megha</del>	<del>Megha</del>	<del>Megha</del>
11	Gopal Shrikrushna Rajguru	<del>Gopal</del>	<del>Gopal</del>	<del>Gopal</del>	<del>Gopal</del>	<del>Gopal</del>	<del>Gopal</del>
12	Sandip Arun Jadhao	<del>Sandip</del>	<del>Sandip</del>	<del>Sandip</del>	<del>Sandip</del>	<del>Sandip</del>	<del>Sandip</del>
13	Suhas Gejanan Shinde	<del>Suhas</del>	<del>Suhas</del>	<del>Suhas</del>	<del>Suhas</del>	<del>Suhas</del>	<del>Suhas</del>
14	Pallavi Parshuram Phund	<del>P.P.Phund</del>	<del>P.P.Phund</del>	<del>P.P.Phund</del>	<del>P.P.Phund</del>	<del>P.P.Phund</del>	<del>P.P.Phund</del>
15	Shraddha Dattappa Sunat	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>	<del>S.D.Sunat</del>
16	Nilesh Diwakar Badhe	<del>Nilesh</del>	<del>Nilesh</del>	<del>Nilesh</del>	<del>Nilesh</del>	<del>Nilesh</del>	<del>Nilesh</del>

**Shri Shivaji Arts Commerce Science College, Motala  
Dist. Buldana**

**Department of Botany  
Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune
3	Milind Ashok Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale
4	Komal Ganesh Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar
5	Akshaya Gajanan Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag
6	Nikita Suryabhan Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle
7	Vaishnavi Sunil Tomar	V.S.Tomar	V.S.Tomar	V.S.Tomar	V.S.Tomar	V.S.Tomar	V.S.Tomar
8	Yasmin Parvin Sayyed Sadroddin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin
9	Asha Suryabhan Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle
10	Megha Kailash Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar
11	Gopal Shrikrushna Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru
12	Sandip Arun Jadhao	S.A.Jadhao	S.A.Jadhao	S.A.Jadhao	S.A.Jadhao	S.A.Jadhao	S.A.Jadhao
13	Suhas Gajanan Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde
14	Pallavi Parshuram Phund	P.P.Phund	P.P.Phund	P.P.Phund	P.P.Phund	P.P.Phund	P.P.Phund
15	Shraddha Dattappa Sunat	S.D.Sunat	S.D.Sunat	S.D.Sunat	S.D.Sunat	S.D.Sunat	S.D.Sunat
16	Nilesh Diwakar Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe

**Shri Shivaji Arts Commerce Science College, Motala  
Dist. Buldana**

**Department of Botany  
Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune
3	Milind Ashok Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale
4	Komal Ganesh Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar
5	Akshaya Gajanan Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag
6	Nikita Suryabhan Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle
7	Vaishnavi Sunil Tomar	V.S.Tomar	V.S.Tomar	V.S.Tomar	V.S.Tomar	V.S.Tomar	V.S.Tomar
8	Yasmin Parvin Sayyed Sadroddin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin
9	Asha Suryabhan Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle
10	Megha Kailash Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar
11	Gopal Shrikrushna Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru
12	Sandip Arun Jadhao	S.A.Jadhao	S.A.Jadhao	S.A.Jadhao	S.A.Jadhao	S.A.Jadhao	S.A.Jadhao
13	Suhas Gajanan Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde
14	Pallavi Parshuram Phund	P.P.Phund	P.P.Phund	P.P.Phund	P.P.Phund	P.P.Phund	P.P.Phund
15	Shraddha Dattappa Sunat	S.D.Sunat	S.D.Sunat	S.D.Sunat	S.D.Sunat	S.D.Sunat	S.D.Sunat
16	Nilesh Diwakar Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe

**Shri Shivaji Arts Commerce Science College, Motala**

**Dist. Buldana**

**Department of Botany**

**Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>
3	Milind Ashok Athawale	<u>Milind</u>	<u>Milind</u>	<u>Milind</u>	<u>Milind</u>	<u>Milind</u>	<u>Milind</u>
4	Komal Ganesh Dikkar	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>
5	Akshaya Gajanan Sarag	<u>Akshaya</u>	<u>Akshaya</u>	<u>Akshaya</u>	<u>Akshaya</u>	<u>Akshaya</u>	<u>Akshaya</u>
6	Nikita Suryabhan Ingle	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>
7	Vaishnavi Sunil Tomar	<u>V.S. Tomar</u>					
8	Yasmin Parvin Sayyed Sadroddin	<u>Yasmin</u>	<u>Yasmin</u>	<u>Yasmin</u>	<u>Yasmin</u>	<u>Yasmin</u>	<u>Yasmin</u>
9	Asha Suryabhan Ingle	<u>Asha</u>	<u>Asha</u>	<u>Asha</u>	<u>Asha</u>	<u>Asha</u>	<u>Asha</u>
10	Megha Kailash Tomar	<u>Megha</u>	<u>Megha</u>	<u>Megha</u>	<u>Megha</u>	<u>Megha</u>	<u>Megha</u>
11	Gopal Shrikrushna Rajguru	<u>Gopal</u>	<u>Gopal</u>	<u>Gopal</u>	<u>Gopal</u>	<u>Gopal</u>	<u>Gopal</u>
12	Sandip Arun Jadhao	<u>S.A. Jadhao</u>					
13	Suhas Gajanan Shinde	<u>Suhas</u>	<u>Suhas</u>	<u>Suhas</u>	<u>Suhas</u>	<u>Suhas</u>	<u>Suhas</u>
14	Pallavi Parshuram Phund	<u>P.P. Phund</u>					
15	Shraddha Dattappa Sunat	<u>S.D. Sunat</u>					
16	Nilesh Diwakar Badhe	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>

**Shri Shivaji Arts Commerce Science College, Motala**

**Dist. Buldana**

**Department of Botany**

**Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>
3	Milind Ashok Athawale	<u>Milind</u>	<u>Milind</u>	<u>Milind</u>	<u>Milind</u>	<u>Milind</u>	<u>Milind</u>
4	Komal Ganesh Dikkar	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>
5	Akshaya Gajanan Sarag	<u>Akshaya</u>	<u>Akshaya</u>	<u>Akshaya</u>	<u>Akshaya</u>	<u>Akshaya</u>	<u>Akshaya</u>
6	Nikita Suryabhan Ingle	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>
7	Vaishnavi Sunil Tomar	<u>V.S. Tomar</u>					
8	Yasmin Parvin Sayyed Sadroddin	<u>Yasmin</u>	<u>Yasmin</u>	<u>Yasmin</u>	<u>Yasmin</u>	<u>Yasmin</u>	<u>Yasmin</u>
9	Asha Suryabhan Ingle	<u>Asha</u>	<u>Asha</u>	<u>Asha</u>	<u>Asha</u>	<u>Asha</u>	<u>Asha</u>
10	Megha Kailash Tomar	<u>Megha</u>	<u>Megha</u>	<u>Megha</u>	<u>Megha</u>	<u>Megha</u>	<u>Megha</u>
11	Gopal Shrikrushna Rajguru	<u>Gopal</u>	<u>Gopal</u>	<u>Gopal</u>	<u>Gopal</u>	<u>Gopal</u>	<u>Gopal</u>
12	Sandip Arun Jadhao	<u>S.A. Jadhao</u>					
13	Suhas Gajanan Shinde	<u>Suhas</u>	<u>Suhas</u>	<u>Suhas</u>	<u>Suhas</u>	<u>Suhas</u>	<u>Suhas</u>
14	Pallavi Parshuram Phund	<u>P.P. Phund</u>					
15	Shraddha Dattappa Sunat	<u>S.D. Sunat</u>					
16	Nilesh Diwakar Badhe	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>

**Shri Shivaji Arts Commerce Science College, Motala**

**Dist. Buldana**

**Department of Botany**

**Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune
3	Milind Ashok Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale
4	Komal Ganesh Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar
5	Akshaya Gajanan Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag
6	Nikita Suryabhan Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle
7	Vaishnavi Sunil Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar
8	Yasmin Parvin Sayyed Sadroddin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin
9	Asha Suryabhan Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle
10	Megha Kailash Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar
11	Gopal Shrikrushna Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru
12	Sandip Arun Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao
13	Suhas Gajanan Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde
14	Pallavi Parshuram Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund
15	Shraddha Dattappa Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat
16	Nilesh Diwakar Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe

**Shri Shivaji Arts Commerce Science College, Motala**

**Dist. Buldana**

**Department of Botany**

**Certificate Course in Organic Farming under NSQF**

**Attendance List (Session 2022-23)**

Sr. No.	Name of Student	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Gokul Gajanan Shinde						
2	Tejas Rajendra Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune	Tejas Sonune
3	Milind Ashok Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale	Milind Athawale
4	Komal Ganesh Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar	Komal Dikkar
5	Akshaya Gajanan Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag	Akshaya Sarag
6	Nikita Suryabhan Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle	Nikita Ingle
7	Vaishnavi Sunil Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar	V.S. Tomar
8	Yasmin Parvin Sayyed Sadroddin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin	Yasmin
9	Asha Suryabhan Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle	Asha Ingle
10	Megha Kailash Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar	Megha Tomar
11	Gopal Shrikrushna Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru	Gopal Rajguru
12	Sandip Arun Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao	S.A. Jadhao
13	Suhas Gajanan Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde	Suhas Shinde
14	Pallavi Parshuram Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund	P.P. Phund
15	Shraddha Dattappa Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat	S.D. Sunat
16	Nilesh Diwakar Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe	Nilesh Badhe

# Chemistry

**Certificate course 2022-23**  
**(Soil Analysis)**

Shri Shivaji Education Society Amravati  
**Shri Shivaji Arts, Commerce & Science College,  
Motala. Dist. Buldana.**

To  
The principal,  
Shri Shivaji Arts, Commerce & Science College,  
Motala. Dist. Buldana.

**Subject:** - To get permission to organize Certificate Course of Soil  
Analysis on 04/03/2023 to 10/03/2023

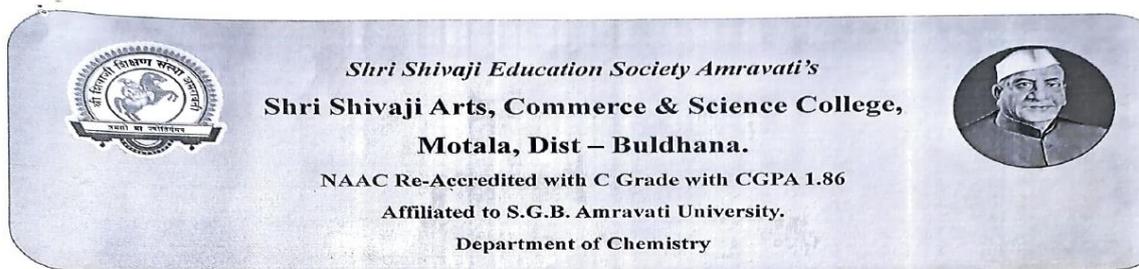
Respected Sir,

The Department of Chemistry wishes to organize Certificate  
Course of Soil Analysis on 04/03/2023 to 10/03/2023 for students &  
staff. Please grant the permission.

Thank you.



*[Signature]*  
Principal  
Shri Shivaji Arts, Commerce  
& Science College, Motala  
Dist. Buldana



24/02/2022

**Notice**

All the students of B.Sc. I, II & III year are hereby informed that the Department of Chemistry has organized thirty days certificate course on "Soil Analysis" from 04<sup>th</sup> March to 10<sup>th</sup> May 2023. Those students wish to join soil analysis certificate course should contact to Course Coordinator Mr. B.S. Bhise, Department of Chemistry.

HOD of Chemistry  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.



Shri Shivaji Education Society, Amravati's  
Shri Shivaji Arts Commerce & Science  
College, Motala Dist. Buldhana



*Certificate Course*  
in

**Soil Analysis**

*Organised by*  
**Department of Chemistry**

Schedule: 04/03/2023 to 10/05/2023

-----  
Dr. G.N. Jadhao  
Principal  
-----

Organising Committee  
Mr. B.S. Bhise  
HOD & Course Coordinator

-----

Mr. D.M. Mangate Co- Coordinator	Mr. N. D. Gattuwar Organizing Secretary	Mr. N. R. Rahate Organizing Member
-------------------------------------	--	---------------------------------------

Shri Shivaji Education Society, Amravati's  
Shri Shivaji Arts., Commerce & Science College, Motala, Dist. Buldhana  
Department of Chemistry

### **Certificate Course in Soil Analysis**

#### **Unit – I:**

##### **Introduction:**

Definition of Soil, Concept of Lithosphere, Soil as a natural body, Soil Components: Air, Water, inorganic and organic solids, Formation of Soil, Types of Soils & Basic Concepts.

#### **Unit – II:**

##### **Properties of Soil:**

Introduction to properties of Soil:

##### **A) Physical Properties:-**

Soil Separates, Texture, Aggregation and Structure, Temperature, Colour, Properties of Soil Mixture, Pore Space, Bulk Density, Particle Density, Aeration and Drainage, Compaction, Surface area, Soil water relationships.

##### **B) Chemical Properties:-**

Morphology of Colloids, Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.

##### **C) Biological Properties:-**

Soil Organic Matter, C: N Relationships, N-Transformation, Soil Organisms, Sulfur Transformation.

**Unit – III:****Study of Instruments**

Brief study of instruments: PH Meter, Conductivity meter, spectrometer, UV-Spectrophotometer, (Calibration, Instrumentation, applications only) use of soil testing kit and mobile soil testing van. Kjeldahl's Assembly for determination of nitrogen.

**Unit – IV:****Soil Profile & Classification**

Soil profile, Soil forming factors, soil survey methods, soil survey reports, soil distribution, classification system.

**Unit – V:****Sample Collection**

Sample Collection and Processing Purpose of Soil testing and analysis, selection of field, Method of Soil Sample collection Methods of soil sample processing, precautions during soil collection & processing, Preservation labeling and Storage of soil samples, various types of tools used for collection.

**Unit – VI:****Soil Test Report & Fertilizer Recommendation:**

Preparation of Soil analysis and test report, Fertilizer recommendation, preparation of soil test summaries and fertility maps.

**Books Recommended:**

1. Soils and soil fertility, Troch, F.R. And Thompson, L.M. Oxford Press.
2. Fundamentals of soil science, foth, H.D. Wiley Books.
3. Soil Science and Management, Plaster, Edward J., Delmar Publishers.
4. Principles of Soil Chemistry (2Wed.) Marcel Dekker Inc., New York.
5. Handbook of Agricultural Sciences, S.S.Singh, P.Gupta, A.k.Gupta, Kalyani Publication



HOD of Chemistry  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.

Shri Shivaji Education Society, Amravati's  
Shri Shivaji Arts., Commerce & Science College, Motala, Dist. Buldana  
Department of Chemistry  
Certificate Course in "Soil Analysis" 2022-23  
Time Table

Sr. No.	Date	Name of Teacher
1	04-03-2022	Mr. B.S. Bhise
2	06-03-2022	Mr. B.S. Bhise
3	09-03-2022	Mr. B.S. Bhise
4	11-03-2022	Mr. B.S. Bhise
5	14-03-2022	Mr. B.S. Bhise
6	16-03-2022	Mr. D. M. Mangate
7	18-03-2022	Mr. D. M. Mangate
8	21-03-2022	Mr. D. M. Mangate
9	23-03-2022	Mr. D. M. Mangate
10	25-03-2022	Mr. D. M. Mangate
11	27-03-2022	Mr. N.R. Rahate
12	29-03-2022	Mr. N.R. Rahate
13	31-03-2022	Mr. N.R. Rahate
14	01-04-2022	Mr. N.R. Rahate
15	03-04-2022	Mr. N.R. Rahate
16	06-04-2022	Mr. N. D. Gattuwar
17	08-04-2022	Mr. N. D. Gattuwar
18	11-04-2022	Mr. N. D. Gattuwar
19	13-04-2022	Mr. N. D. Gattuwar
20	17-04-2022	Mr. N. D. Gattuwar
21	19-04-2022	Mr. B.S. Bhise
22	21-04-2022	Mr. B.S. Bhise
23	25-04-2022	Mr. D. M. Mangate
24	27-04-2022	Mr. D. M. Mangate
25	29-04-2022	Mr. N.R. Rahate
26	02-05-2022	Mr. N.R. Rahate
27	04-05-2022	Mr. N. D. Gattuwar
28	06-05-2022	Mr. N. D. Gattuwar
29	09-05-2022	Mr. B.S. Bhise
30	10-05-2022	<b>Exam</b>



HOD of Chemistry  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.

HOD of Chemistry  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.

Shri Shivaji Education Society, Amravati's  
Shri Shivaji Arts., Commerce & Science College, Motala, Dist. Buldana  
Department of Chemistry  
“Certificate Course Soil Analysis 2022-2023”

**Result sheet**

Sr. No.	Name of Student	Class	Marks Obtained (Out of 40)
1	Afrin Parvin	B.Sc. III	24
2	Shifakauser Shaikh	B.Sc. III	28
3	ReshmaBi Shaikh	B.Sc. III	32
4	Sana Kauser	B.Sc. III	36
5	Shivani Shimbre	B.Sc. III	34
6	Neha Khandare	B.Sc. III	24
7	Pratiksha Kukade	B.Sc. III	20
8	Ankita Narkhede	B.Sc. III	22
9	Vaishnavi Kukade	B.Sc. III	28
10	Ruchita Sawale	B.Sc. III	34
11	Sonal Pawar	B.Sc. III	36
12	Ashvini Sapkal	B.Sc. II	34
13	Mahima Ahire	B.Sc. II	28
14	Sejal Ahire	B.Sc. II	20
15	Nikita Wakode	B.Sc. II	20
16	Sadaf Anjum	B.Sc. II	22
17	Snehal Late	B.Sc. II	28
18	Savita Jain	B.Sc. II	32
19	Mehrunisa	B.Sc. II	32
20	Priyanka Dhoran	B.Sc. II	18
21	Abu Saleh Umair	B.Sc. III	20
22	Rizwan Shah	B.Sc. III	28
23	Fardeen Khan	B.Sc. III	36
24	Mohd. Umer	B.Sc. III	28
25	Altamash Khan	B.Sc. III	22
26	Vaibhav Pachpor	B.Sc. III	26
27	Ganesh Bhatarkar	B.Sc. III	28
28	Shivaji Pawar	B.Sc. III	32
29	Vitthal Ghongate	B.Sc. III	18
30	Prashant Chavan	B.Sc. III	18
31	Neha Bagade	B.Sc. III	24
32	Swati Dhote	B.Sc. III	26

33	Manasi Rajput	B.Sc. III	24
34	Pradip Dikkar	B.Sc. II	32
35	Vaishnavi Kharche	B.Sc. II	32
36	Mushira Bano	B.Sc. II	36
37	Vishal Chaube	B.Sc. II	28
38	Gopal Lanjulkar	B.Sc. II	22
39	Sk. Zahed Sk. Kaleem	B.Sc. II	24
40	Sanket Ingle	B.Sc. II	30
41	Saurav Tayde	B.Sc. II	30
42	Nitesh Rathod	B.Sc. II	34
43	Shah Nasir	B.Sc. II	36
44	Jeevan Rathod	B.Sc. II	20
45	Sakshi Sonone	B.Sc. II	26
46	Shubham Athawale	B.Sc. II	24
47	Pankaj Athawale	B.Sc. II	30
48	Akshaya Sarag	B.Sc. I	34
49	Yasmin Sayyd	B.Sc. I	26
50	Vaishnavi Tomar	B.Sc. I	32
51	Anjali Jadhav	B.Sc. I	24
52	Nikita Ingle	B.Sc. I	28
53	Punam suralkar	B.Sc. I	18
54	Vaishnavi Inaskar	B.Sc. I	22
55	Shraddha Sunat	B.Sc. I	26
56	Uzma Parveen	B.Sc. I	34
57	Zra Anjum	B.Sc. I	38
58	Saniya Parveen	B.Sc. I	22
59	Aaliya Bi Ameen	B.Sc. I	20
60	Gokul Shinde	B.Sc. I	28



HOD of Chemistry  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.

Shri Shivaji Education Society, Amravati's  
Shri Shivaji Arts., Commerce & Science College, Motala,  
Dist. Buldana  
Department of Chemistry  
Certificate Course in "Soil Analysis" 2022-23  
Time Table

Sr. No.	Date	Name of Teacher
1	3/4/2022	Mr. B.S. Bhise
2	3/6/2022	Mr. B.S. Bhise
3	3/9/2022	Mr. B.S. Bhise
4	3/11/2022	Mr. B.S. Bhise
5	3/14/2022	Mr. B.S. Bhise
6	3/16/2022	Mr. D. M. Mangate
7	3/18/2022	Mr. D. M. Mangate
8	3/21/2022	Mr. D. M. Mangate
9	3/23/2022	Mr. D. M. Mangate
10	3/25/2022	Mr. D. M. Mangate
11	3/27/2022	Mr. N.R. Rahate
12	3/29/2022	Mr. N.R. Rahate
13	3/31/2022	Mr. N.R. Rahate
14	4/1/2022	Mr. N.R. Rahate
15	4/3/2022	Mr. N.R. Rahate
16	4/6/2022	Mr. N. D. Gattuwar
17	4/8/2022	Mr. N. D. Gattuwar
18	4/11/2022	Mr. N. D. Gattuwar
19	4/13/2022	Mr. N. D. Gattuwar
20	4/17/2022	Mr. N. D. Gattuwar
21	4/19/2022	Mr. B.S. Bhise
22	4/21/2022	Mr. B.S. Bhise
23	4/25/2022	Mr. D. M. Mangate
24	4/27/2022	Mr. D. M. Mangate
25	4/29/2022	Mr. N.R. Rahate
26	5/2/2022	Mr. N.R. Rahate
27	5/4/2022	Mr. N. D. Gattuwar
28	5/6/2022	Mr. N. D. Gattuwar
29	5/9/2022	Mr. B.S. Bhise
30	5/10/2022	<b>Exam</b>



HOD of Chemistry  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.

Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldhana

Department of Chemistry

Certificate course in Chemistry 2022-23

### Soil Analysis

**Introduction:** - Soil is the system which supplies plant with available nutrients through the root. Physical and Chemical analysis of the soil are carried out to indicate the efficiency of soil for supplying plants with nutrients in available forms as well as identification of the factors affecting this efficiency in the soil. Therefore, besides perfect sampling in the field, soil samples must be properly prepared and analyzed in order to reach the correct evaluation of the soil nutritional status.

**Objective:** - The basic objective of the soil-testing programme is to give farmers a service leading to better and more economic use of fertilizers and better soil management practices for increasing agricultural production.

Soil testing has a few benefits like identifying the type of foundation needed, helps avoid resting foundations on poor soil, helps identify corrosive soil, identify soil liquefaction possibilities during an earthquake, etc.

Evaluation of fertility status of soil.

Estimation of the available nutrient's status of soil.

Evaluation of the suitability of soil for laying garden.

Determination of acidity, salinity and alkalinity problems and

Recommendation of the required amount of fertilizers, lime or gypsum based on soil test value.

**Course Outcomes:**

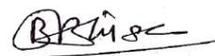
1. Understand the Role of micronutrients in plant growth and development
2. Soil testing -Various soil test methods can be learnt
3. Impart knowledge on soil health, its assessment and maintenance for sustaining soil productivity.
4. Clear understanding of soil health and soil quality indices.



HOD of Chemistry  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldhana.

Shri Shivaji Education Society, Amravati's  
**Shri Shivaji Arts, Commerce & Science College,**  
**Motala, Dist. Buldana**  
**Department of Chemistry**  
**Certificate Course in "Soil Analysis"**  
**Academic Session 2022-23**  
**Academic Qualification of Teaching Staff**

Sr. No.	Name	Academic Qualification
1.	Mr. B. S. Bhise	M.Sc. (Chemistry), NET
2.	Mr. D. M. Mangate	M.Sc. (Chemistry), NET, GATE
3.	Mr. N. R. Rahate	M.Sc. (Chemistry), NET, SET, B.Ed.
4.	Mr. N. D. Gattuwar	M.Sc. (Chemistry), B.ed, NET, M.B.A.



HOD of Chemistry  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.

**Shri Shivaji Arts, Commerce & Science College**  
**Motala Dist. Buldhana**  
**Department of Chemistry**

Soil Analysis Certificate Course 2022-23

**List of Students Enrolled for Certificate Course**

Sr. No.	Name of Student	Class	Sr. No.	Name of Student	Class
1	Afrin Parvin	B.Sc. III	31	Neha Bagade	B.Sc. III
2	Shifakauser Shaikh	B.Sc. III	32	Swati Dhote	B.Sc. III
3	ReshmaBi Shaikh	B.Sc. III	33	Manasi Rajput	B.Sc. III
4	Sana Kauser	B.Sc. III	34	Pradip Dikkar	B.Sc. II
5	Shivani Shimbre	B.Sc. III	35	Vaishnavi Kharche	B.Sc. II
6	Neha Khandare	B.Sc. III	36	Mushira Bano	B.Sc. II
7	Pratiksha Kukade	B.Sc. III	37	Vishal Chaube	B.Sc. II
8	Ankita Narkhede	B.Sc. III	38	Gopal Lanjulkar	B.Sc. II
9	Vaishnavi Kukade	B.Sc. III	39	Sk. Zahed Sk. Kaleem	B.Sc. II
10	Ruchita Sawale	B.Sc. III	40	Sanket Ingle	B.Sc. II
11	Sonal Pawar	B.Sc. III	41	Saurav Tayde	B.Sc. II
12	Ashvini Sapkal	B.Sc. II	42	Nitesh Rathod	B.Sc. II
13	Mahima Ahire	B.Sc. II	43	Shah Nasir	B.Sc. II
14	Sejal Ahire	B.Sc. II	44	Jeevan Rathod	B.Sc. II
15	Nikita Wakode	B.Sc. II	45	Sakshi Sonone	B.Sc. II
16	Sadaf Anjum	B.Sc. II	46	Shubham Athawale	B.Sc. II
17	Snehal Late	B.Sc. II	47	Pankaj Athawale	B.Sc. II
18	Savita Jain	B.Sc. II	48	Akshaya Sarag	B.Sc. I
19	Mehrunisa	B.Sc. II	49	Yasmin Sayyd	B.Sc. I
20	Priyanka Dhoran	B.Sc. II	50	Vaishnavi Tomar	B.Sc. I
21	Abu Saleh Umair	B.Sc. III	51	Anjali Jadhav	B.Sc. I
22	Rizwan Shah	B.Sc. III	52	Nikita Ingle	B.Sc. I
23	Fardeen Khan	B.Sc. III	53	Punam suralkar	B.Sc. I
24	Mohd. Umer	B.Sc. III	54	Vaishnavi Inaskar	B.Sc. I
25	Altamash Khan	B.Sc. III	55	Shraddha Sunat	B.Sc. I
26	Vaibhav Pachpor	B.Sc. III	56	Uzma Parveen	B.Sc. I
27	Ganesh Bhaturkar	B.Sc. III	57	Zra Anjum	B.Sc. I
28	Shivaji Pawar	B.Sc. III	58	Saniya Parveen	B.Sc. I
29	Vitthal Ghongate	B.Sc. III	59	Aaliya Bi Ameen	B.Sc. I
30	Prashant Chavan	B.Sc. III	60	Gokul Shinde	B.Sc. I



HOD of Chemistry  
 Shri Shivaji Arts, Commerce & Science  
 College, Motala, Dist. Buldana.

**Shri Shivaji Arts, Commerce & Science College**  
**Motala Dist. Buldhana**  
**Department of Chemistry**

Soil Analysis Certificate Course 2022-23

**List of Students Enrolled for Certificate Course**

Sr. No.	Name of Student	Class	Sr. No.	Name of Student	Class
1	Afrin Parvin	B.Sc. III	31	Neha Bagade	B.Sc. III
2	Shifakauser Shaikh	B.Sc. III	32	Swati Dhote	B.Sc. III
3	ReshmaBi Shaikh	B.Sc. III	33	Manasi Rajput	B.Sc. III
4	Sana Kauser	B.Sc. III	34	Pradip Dikkar	B.Sc. II
5	Shivani Shimbre	B.Sc. III	35	Vaishnavi Kharche	B.Sc. II
6	Neha Khandare	B.Sc. III	36	Mushira Bano	B.Sc. II
7	Pratiksha Kukade	B.Sc. III	37	Vishal Chaube	B.Sc. II
8	Ankita Narkhede	B.Sc. III	38	Gopal Lanjulkar	B.Sc. II
9	Vaishnavi Kukade	B.Sc. III	39	Sk. Zahed Sk. Kaleem	B.Sc. II
10	Ruchita Sawale	B.Sc. III	40	Sanket Ingle	B.Sc. II
11	Sonal Pawar	B.Sc. III	41	Saurav Tayde	B.Sc. II
12	Ashvini Sapkal	B.Sc. II	42	Nitesh Rathod	B.Sc. II
13	Mahima Ahire	B.Sc. II	43	Shah Nasir	B.Sc. II
14	Sejal Ahire	B.Sc. II	44	Jeevan Rathod	B.Sc. II
15	Nikita Wakode	B.Sc. II	45	Sakshi Sonone	B.Sc. II
16	Sadaf Anjum	B.Sc. II	46	Shubham Athawale	B.Sc. II
17	Snehal Late	B.Sc. II	47	Pankaj Athawale	B.Sc. II
18	Savita Jain	B.Sc. II	48	Akshaya Sarag	B.Sc. I
19	Mehrunisa	B.Sc. II	49	Yasmin Sayyd	B.Sc. I
20	Priyanka Dhoran	B.Sc. II	50	Vaishnavi Tomar	B.Sc. I
21	Abu Saleh Umair	B.Sc. III	51	Anjali Jadhav	B.Sc. I
22	Rizwan Shah	B.Sc. III	52	Nikita Ingle	B.Sc. I
23	Fardeen Khan	B.Sc. III	53	Punam suralkar	B.Sc. I
24	Mohd. Umer	B.Sc. III	54	Vaishnavi Inaskar	B.Sc. I
25	Altamash Khan	B.Sc. III	55	Shraddha Sunat	B.Sc. I
26	Vaibhav Pachpor	B.Sc. III	56	Uzma Parveen	B.Sc. I
27	Ganesh Bhatarkar	B.Sc. III	57	Zra Anjum	B.Sc. I
28	Shivaji Pawar	B.Sc. III	58	Saniya Parveen	B.Sc. I
29	Vitthal Ghongate	B.Sc. III	59	Aaliya Bi Ameen	B.Sc. I
30	Prashant Chavan	B.Sc. III	60	Gokul Shinde	B.Sc. I



HOD of Chemistry  
 Shri Shivaji Arts, Commerce & Science  
 College, Motala, Dist. Buldana.

Shri Shivaji Education Society Amravati's  
**SHRI SHIVAJI ARTS, COMMERCE & SCIENCE COLLEGE MOTALA, DIST. BULDANA**

DEPARTMENT OF CHEMISTRY



In Collaboration with IQAC

organized

Certificate Course in  
**"SOIL ANALYSIS"**

Certificate of Completion



*This is to certify that Aaliya Bi Ameen of Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldana accomplished the certificate courses in "Soil Analysis" organized by Department of Chemistry, Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldana on dated 04 March to 10 May 2023.*

Co-coordinator  
 Mr. D.M. Mangate

Organizing Secretary  
 Mr. N.D. Gattuwar

Organizing Member  
 Mr. N.R. Rahate

HOD & Coordinator  
 Mr. B.S. Bhise

Principal  
 Dr. G.N. Jadhao

Shri Shivaji Education Society Amravati's  
**SHRI SHIVAJI ARTS, COMMERCE & SCIENCE COLLEGE MOTALA, DIST. BULDANA**

DEPARTMENT OF CHEMISTRY



In Collaboration with IQAC  
 organized  
**Certificate Course in  
 "SOIL ANALYSIS"**  
Certificate of Completion



***This is to certify that Vaishnavi Tomar of Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldana accomplished the certificate courses in "Soil Analysis" organized by Department of Chemistry, Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldana on dated 04 March to 10 May 2023.***

Co-coordinator  
 Mr. D.M. Mangate

Organizing Secretary  
 Mr. N.D. Gattuwar

Organizing Member  
 Mr. N.R. Rahate

HOD & Coordinator  
 Mr. B.S. Bhise

Principal  
 Dr. G.N. Jadhao

Shri Shivaji Education Society Amravati's  
**SHRI SHIVAJI ARTS, COMMERCE & SCIENCE COLLEGE MOTALA, DIST. BULDANA**



DEPARTMENT OF CHEMISTRY

In Collaboration with IQAC

organized

Certificate Course in  
**“SOIL ANALYSIS”**

Certificate of Completion



***This is to certify that Aaliya Bi Ameen of Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldana accomplished the certificate courses in “Soil Analysis” organized by Department of Chemistry, Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldana on dated 04 March to 10 May 2023.***

Co-coordinator  
 Mr. D.M. Mangate

Organizing Secretary  
 Mr. N.D. Gattuwar

Organizing Member  
 Mr. N.R. Rahate

HOD & Coordinator  
 Mr. B.S. Bhise

Principal  
 Dr. G.N. Jadhao

Shri Shivaji Education Society Amravati's  
**SHRI SHIVAJI ARTS, COMMERCE & SCIENCE COLLEGE MOTALA, DIST. BULDANA**

DEPARTMENT OF CHEMISTRY



In Collaboration with IQAC  
 organized  
 Certificate Course in  
**“SOIL ANALYSIS”**  
Certificate of Completion



*This is to certify that Shraddha Sunat of Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldana accomplished the certificate courses in “Soil Analysis” organized by Department of Chemistry, Shri Shivaji Arts, Commerce & Science College Motala Dist. Buldana on dated 04 March to 10 May 2023.*

Co-coordinator  
 Mr. D.M. Mangate

Organizing Secretary  
 Mr. N.D. Gattuwar

Organizing Member  
 Mr. N.R. Rahate

HOD & Coordinator  
 Mr. B.S. Bhise

Principal  
 Dr. G.N. Jadhao

# English

**Certificate course 2022-23**

**(Communication Skill  
in English)**

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
SHRI SHIVAJI ARTS, COMMERCE AND SCIENCE COLLEGE, MOTALA, DIST. BULDANA (M.S.)  
DEPARTMENT OF ENGLISH  
(Academic Year 2022-23)

---

To,  
The Principal,  
Shri Shivaji Arts, Commerce and  
Science College,  
Motala, Dist. Buldana

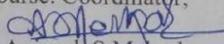
**Subject:** Regarding to conduct a fifteen days certificate course on the topic **Communication Skill in English from 12 Sept. to 29 Sept. 2022.**

Respected Sir,

The Dept. of English of the college wishes to organize fifteen days certificate course on the topic **Communication Skill in English from 12 Sept. to 29 Sept. 2023** in our college to motivate all to speak English and also an effort to remove fear of English language from their mind.

So you are requested to grant permission for the same.

Thanking you.

Course. Coordinator,  
  
Prof. Avinash S. Meherkar

HOD  
Dept. of English  
Shri Shivaji Arts, Com.  
& Sci. College, Motala

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
SHRI SHIVAJI ARTS, COMMERCE AND SCIENCE COLLEGE,  
MOTALA DIST.BULDANA (M.S.)

DEPARTMENT OF ENGLISH (2022-23)  
**FIFTEEN DAYS CERTIFICATE COURSE ON THE TOPIC**

**COMMUNICATION SKILL IN ENGLISH**

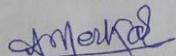
**NOTICE**

All the students of **B.A. B.Com. and B.Sc** are hereby notified that the Department of English has organized fifteen days certificate course on the topic **COMMUNICATION SKILL IN ENGLISH** during 12 September to 29 September 2022. Classes will be conducted in offline mode only daily in the morning 9 to 11 AM

Interested and desirous students for the course should contact Prof.A.S.Meherkar & Prof.V. B. Bhagile

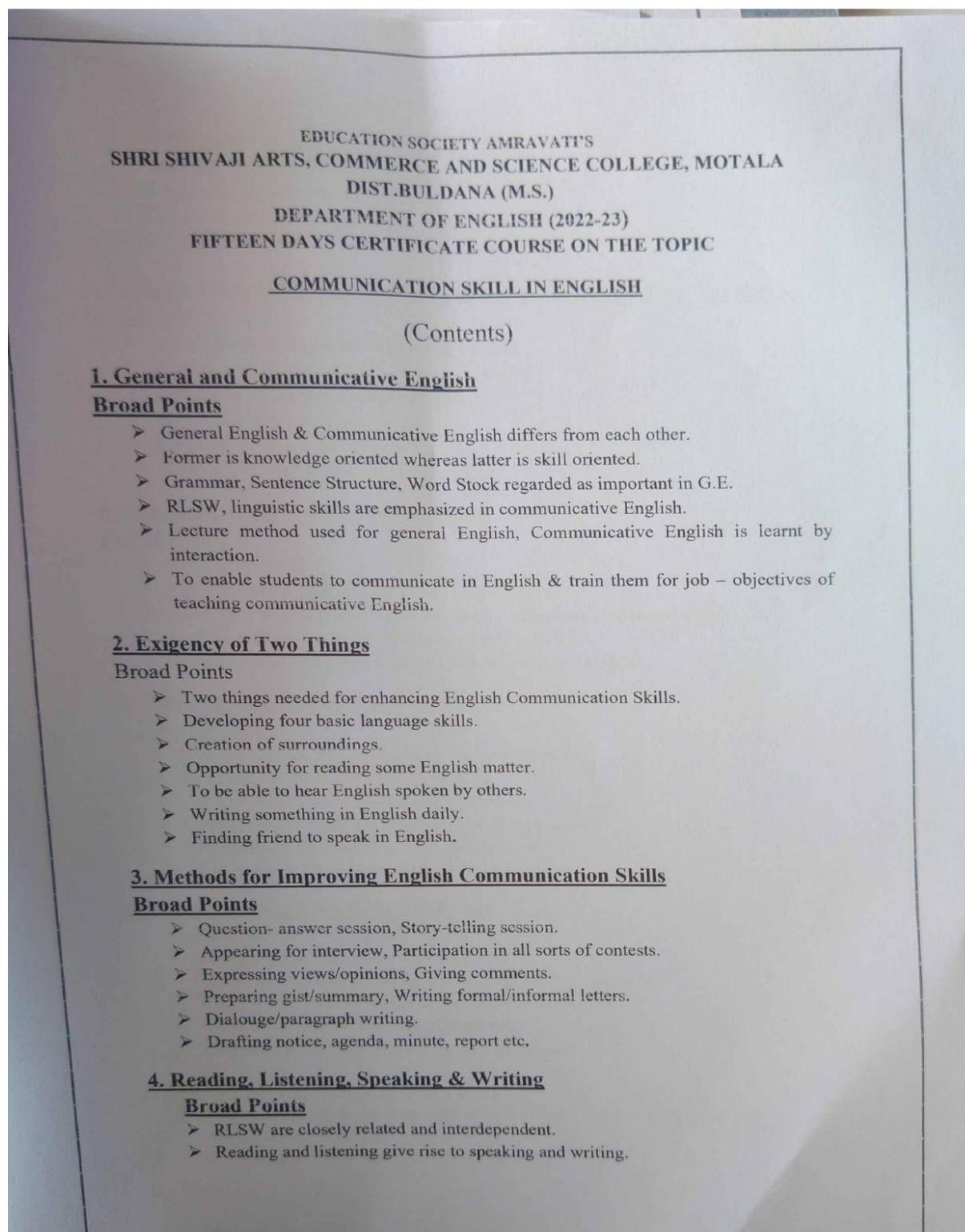
Participation certificate will be given.

**N.B. No Registration Fee.**

  
Course-Co-ordinator  
(Prof.A.S.Meherkar)

**HOD**  
Dept. of English  
Shri Shivaji Arts, Com.  
& Sci. College, Motala

Principal  
(Prof.Dr.G.N. Jadhao)  
Principal  
Shri Shivaji Arts, Commerce  
& Science College Motala  
Distt.Buldana



- Learner input and out.
- Four basic language/linguistic skills.
- Story books, novels, papers, magazines.
- Delivering speech, participating in contests.
- Writing letters, drafting notice, agenda, minutes.

### **5. Forming Friendship with English Speaking Partner (Native Speaker)**

#### **Broad Points**

- It is advisable to find a friend to speak English.
- It is had better if the colleague is native speaker.
- Interaction, exchange of ideas with peer.
- Mistakes, errors can be rectified.
- Language becomes understandable.
- Confidence, stage daring may be increased.

### **6. Reading Loudly & Speaking at Home**

#### **Broad Points**

- Reading is a skill.
- Reading loudly, giving pause clears pronunciation.
- Reading neither slowly nor speedily but by maintaining moderate speed.
- Making it a habit to speak at home is highly beneficial.
- Gradually one will notice mistakes and correct them oneself.

### **7. Thinking and Speaking in English only.**

#### **Broad Points**

- In order to speak English thinking in English is must.
- Forming sentences and uttering the same.
- Offhand speaking sometimes brings obstacles.
- After having thought it is always better to write down.
- Speaking and thinking should go hand in hand.
- To be active thinker and speaker is the only option.

### **8. Enriching Word Stock Broad Points**

- Vocabulary and Word Stock differs.
- Memorizing at least ten new words daily.
- In absence of words speaking and writing becomes impossible.
- When we fall short of words no sentence can be formed.
- Word stock is one of the eyes of language.
- Vast word stock leads to good speaker and writer.

### **9. Passion, Strong Desire Broad Points**

- Passion or strong desire plays crucial role in developing English communication skill.
- Passion further motivates self-confidence.

- Desire changes nothing, decision changes something but determination changes everything.
- Where there is a will there is way.
- Failures are stepping stone to success.

#### **10. Reading Story Books and Novels Broad Points**

- To be an omnivorous reader.
- Simple story books, novels enhance grasping power.
- The language of novel is informal.
- Giving once or twice reading till imbibing the meaning.
- Moreover, brain requires reading just like abdomen requires food.

#### **11. Preparation of Time-Table**

- Time-management most essential thing.
- Time-table regarding routine (daily activities) be prepared.
- Money cannot be time but Time can be money.
- Time is great healer.

#### **12. Continuous, Perfect Practice & Unlimited Confidence**

- Practice makes man perfect.
- No any skill that cannot be developed with continuous practice.
- If it is understood by others then it is called English.
- Self-confidence can bring about tremendous change.
- Unlimited confidence gives birth to fruitful result.

#### **13. Maintaining Diary to note Unfamiliar Words**

- Taking down unfamiliar words and finding out meaning.
- Curiosity, inquisitive mind is needed to do so.
- Synonyms and antonyms also help about English communication skill.
- Noting down proverb, noble thought, and memorable statement necessary.

#### **14. English Essential for Survival & Successful Life**

- The world is of English.
- English means of international communication.
- English creates long lasting impression.
- Survival of the fittest but now survival of the English.
- Success in English means success in all walks of life.

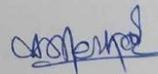
#### **15. The Conclusion**

Forming questions, Vocabulary/Grammar preparation, Languageskills, Oral request/suggestions, making use of appropriate words in appropriate situations, vital

interactions, arguing or expressing views, if our English is perfectly understood by others then the purpose of English Communication Skill is served.

### Course Objectives:

- To use dictionary for pronunciation and meaning.
- To study word as regards British & American spelling.
- To read and study a narrative passage.
- To learn the grammatical constructions.
- To use certain polite expressions in speech and writing.
- To frame WH-questions.
- To learn to describe persons and objects.
- To make use of English for giving instructions.
- To make use of telephone as a means of communication.
- To learn the use of correct tag-question/question-tag.
- To learn how to make notes from a passage.
- To learn to write formal and informal letters.
- To know how to read with understanding simple news items from English newspaper.
- To learn some important grammar items.
- To introduce oneself, relatives and friends orally.
- To write Bio-data (Curriculum Vitae)
- To indicate likes and dislikes politely.
- To write a report for a newspaper and magazine.
- To be able to ask for information.



HOD  
Dept. of English  
Shri Shivaji Arts, Com.  
& Sci. College, Motala

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
 SHRI SHIVAJI ARTS, COMMERCE AND SCIENCE COLLEGE, MOTALA  
 DIST.BULDANA (M.S.)  
 DEPARTMENT OF ENGLISH (2022-23)  
 FIFTEEN DAYS CERTIFICATE COURSE ON THE TOPIC  
 COMMUNICATION SKILL IN ENGLISH  
12 September to 29 September 2022  
**REGISTRATION FORM**

**Personal Information**

Full Name of Student (In Block Letters)	
Class	
Name of the College	
Mobile No.	
E-mail Address	
Address for Correspondence	

> No Registration Fee.  
 > Classes will be conducted in offline mode only in the morning 9 to 11 AM

Date:.....

Signature



SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
**SHRI SHIVAJI ARTS, COMMERCE AND SCIENCE COLLEGE, MOTALA**  
 DIST.BULDANA (M.S.)

DEPARTMENT OF ENGLISH ( )  
 FIFTEEN DAYS CERTIFICATE COURSE ON THE TOPIC

**COMMUNICATION SKILL IN ENGLISH**  
12 September to 29 September 2022

**FEEDBACK FORM**

Dear Students,

Thank you for your participation in fifteen days certificate course on The Communication Skills in English. The department would like you to complete following course evaluation feedback. Your feedback will enable us to improve our course and fulfill your needs in future.

Tick mark (√) the appropriate option.

**1. How was the certificate course according to your opinion?**

A. Excellent    B. Very good    C. Good    D. Satisfactory

**2. Why it is important to improve communication skill in English?**

A. To pass in examination    B. To get a good job  
 C. To be successful in life    D. To be English writer

**3. How was the teaching art of resource person?**

A. Excellent    B. Very Good    C. Good    D. Satisfactory

**4. What should be done to improve communicative English?**

A. Improving grammar    B. Developing RLSW  
 C. Participating in GD    D. All of the above

**5. What should be the duration of such courses?**

A. 7 days    B. 10 days    C. 15 days    D. One month

Any

suggestion \_\_\_\_\_

Name of Student -----

Class \_\_\_\_\_

Date \_\_\_\_\_

Sign. \_\_\_\_\_

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATIS**  
**SHRI SHIVAJI ARTS COMMERCE AND SCIENCE COLLEGE MOTALA TQ MOTALA DIST BULDHANA**

ACADEMIC YEAR :- 22-23  
 ACTIVITY NAME :- Certificate Course in communication skills in English  
 VENUE :- 577 Shivaji College Motala  
 DATE :- 12 sept to 29 sept 2022  
 DEPARTMENT :- English

Time - 9 to 11 am

SR NO	NAME OF THE STUDENT	12 sept	13 sept	14 sept	15 sept	16 sept	19 sept	20 sept
1	Peachi Anil Mosey	P.Mosey						
2	Vaishnavi v. satav.	V.V. satav						
3	Sapsawadi Gt. Rakhonde	S.G. Rakhonde						
4	Prayitika Gulab Badhe	P.G. BADHE	P.G. BADHE	P.G. BADHE	P.G. BADHE	P.G. BADHE	P.G. BADHE	P.G. BADHE
5	Pallavi Gofanon sonam	P.Gonane						
6	Komal Jagdev Medhe	K.J.medhe						
7	Nikita Anil medhe	N.A.medhe						
8	Dipali Gulab Akhau	D.G. Akhau	D.G. Akhau	D.G. Akhau	D.G. Akhau	D.G. Akhau	D.G. Akhau	D.G. Akhau
9	Sabni Ganesh Patil	S.G. Patil	S.G. Patil	S.G. Patil	S.G. Patil	S.G. Patil	S.G. Patil	S.G. Patil
10	Sarika Sarangdharatey	S. saratey						
11	Jyoti Ravindra Nikam	J.R. Nikam	J.R. Nikam	J.R. Nikam	J.R. Nikam	J.R. Nikam	J.R. Nikam	J.R. Nikam
12	Poojini A. Chavan	P.A. Chavan	P.A. Chavan	P.A. Chavan	P.A. Chavan	P.A. Chavan	P.A. Chavan	P.A. Chavan

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATIS**  
**SHRI SHIVAJI ARTS COMMERCE AND SCIENCE COLLEGE MOTALA TQ MOTALA DIST BULDHANA**

ACADEMIC YEAR :-  
 ACTIVITY NAME :-  
 VENUE :-  
 DATE :-  
 DEPARTMENT :-

SR NO	NAME OF THE STUDENT	12 sept	13 sept	14 sept	15 sept	16 sept	19 sept	20 sept
1	Rohini Shambhaji Ghosh	R.S. Ghosh	R.S. Ghosh	R.S. Ghosh	R.S. Ghosh	R.S. Ghosh	R.S. Ghosh	R.S. Ghosh
2	Dip. Sarkate	D.P. Sarkate	D.P. Sarkate	D.P. Sarkate	D.P. Sarkate	D.P. Sarkate	D.P. Sarkate	D.P. Sarkate
3	Dhruv Ramji Jambore	D.R. Jambore	D.R. Jambore	D.R. Jambore	D.R. Jambore	D.R. Jambore	D.R. Jambore	D.R. Jambore
4	Yash Rajesh Gaikwad	Y.Gaikwad						
5	Sanjana S. Senane	S.S. Senane	S.S. Senane	S.S. Senane	S.S. Senane	S.S. Senane	S.S. Senane	S.S. Senane
6	Monika M. Gujjar	M.M. Gujjar	M.M. Gujjar	M.M. Gujjar	M.M. Gujjar	M.M. Gujjar	M.M. Gujjar	M.M. Gujjar
7	Saeta R. Lad	S.R. Lad	S.R. Lad	S.R. Lad	S.R. Lad	S.R. Lad	S.R. Lad	S.R. Lad
8	Anita G. Divane	A.G. Divane	A.G. Divane	A.G. Divane	A.G. Divane	A.G. Divane	A.G. Divane	A.G. Divane
9	Mayur S. Shelke	M.S. Shelke	M.S. Shelke	M.S. Shelke	M.S. Shelke	M.S. Shelke	M.S. Shelke	M.S. Shelke
10	Abhishek B. Hage	A.B. Hage	A.B. Hage	A.B. Hage	A.B. Hage	A.B. Hage	A.B. Hage	A.B. Hage
11	Pruthviba J. v. Bodade	P.V. Bodade	P.V. Bodade	P.V. Bodade	P.V. Bodade	P.V. Bodade	P.V. Bodade	P.V. Bodade
12	Gayatri Sanil Jangare	G.S. Jangare	G.S. Jangare	G.S. Jangare	G.S. Jangare	G.S. Jangare	G.S. Jangare	G.S. Jangare

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATIS**  
**SHRI SHIVAJI ARTS COMMERCE AND SCIENCE COLLEGE MOTALA TQ MOTALA DIST BULDHANA**

ACADEMIC YEAR :- \_\_\_\_\_  
 ACTIVITY NAME :- \_\_\_\_\_  
 VENUE :- \_\_\_\_\_  
 DATE :- \_\_\_\_\_  
 DEPARTMENT :- \_\_\_\_\_

SR NO	NAME OF THE STUDENT	12 sept	13 sept	14 sept	15 sept	16 sept	19 sept	20 sept
1	Komal Rameshwar Jadhav	K.R. Jadhav	K.R. Jadhav	K.R. Jadhav	K.R. Jadhav	K.R. Jadhav	K.R. Jadhav	K.R. Jadhav
2	Anchal Mahesh Gadhe	M Gadhe	M Gadhe	M Gadhe	M Gadhe	M Gadhe	M Gadhe	M Gadhe
3	Sarika Sahebrao Inge	S.S. Inge	S.S. Inge	S.S. Inge	S.S. Inge	S.S. Inge	S.S. Inge	S.S. Inge
4	Neha Narayan Bhagwat	N.N. Bhagwat	N.N. Bhagwat	N.N. Bhagwat	N.N. Bhagwat	N.N. Bhagwat	N.N. Bhagwat	N.N. Bhagwat
5	Mirita Suresh Sundarekar	M.S. Sundarekar	M.S. Sundarekar	M.S. Sundarekar	M.S. Sundarekar	M.S. Sundarekar	M.S. Sundarekar	M.S. Sundarekar
6	Sarla Rajendra Gokhale	S. Gokhale	S. Gokhale	S. Gokhale	S. Gokhale	S. Gokhale	S. Gokhale	S. Gokhale
7	Gajatri Ramesh Shilkar	G. Shilkar	G. Shilkar	G. Shilkar	G. Shilkar	G. Shilkar	G. Shilkar	G. Shilkar
8	Priyanka T. S. U. Fode	P.T. S. U. Fode	P.T. S. U. Fode	P.T. S. U. Fode	P.T. S. U. Fode	P.T. S. U. Fode	P.T. S. U. Fode	P.T. S. U. Fode
9	Abali Bhimrao Ingle	A. Ingle	A. Ingle	A. Ingle	A. Ingle	A. Ingle	A. Ingle	A. Ingle
10	Vaishnavi Bhagwat Khobare	V. Khobare	V. Khobare	V. Khobare	V. Khobare	V. Khobare	V. Khobare	V. Khobare
11	Snehal Dharmendra Shinde	S. Shinde	S. Shinde	S. Shinde	S. Shinde	S. Shinde	S. Shinde	S. Shinde
12	Suraj D. Mute	S. Mute	S. Mute	S. Mute	S. Mute	S. Mute	S. Mute	S. Mute

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATIS**  
**SHRI SHIVAJI ARTS COMMERCE AND SCIENCE COLLEGE MOTALA TQ MOTALA DIST BULDHANA**

ACADEMIC YEAR :- \_\_\_\_\_  
 ACTIVITY NAME :- \_\_\_\_\_  
 VENUE :- \_\_\_\_\_  
 DATE :- \_\_\_\_\_  
 DEPARTMENT :- \_\_\_\_\_

SR NO	NAME OF THE STUDENT	12 sept	13 sept	14 sept	15 sept	16 sept	19 sept	20 sept
1	Namrata P. Jadhav	N. Jadhav	N. Jadhav	N. Jadhav	N. Jadhav	N. Jadhav	N. Jadhav	N. Jadhav
2	Pratiksha Suresh Rathod	P. Rathod	P. Rathod	P. Rathod	P. Rathod	P. Rathod	P. Rathod	P. Rathod
3	Shital Milind Wankhede	S. Wankhede	S. Wankhede	S. Wankhede	S. Wankhede	S. Wankhede	S. Wankhede	S. Wankhede
4	Gauri P. Sonare	G. Sonare						
5	Roshan Rajendra Dode	R. Dode	R. Dode	R. Dode	R. Dode	R. Dode	R. Dode	R. Dode
6	Ram Manish Deshmukh	R. Deshmukh	R. Deshmukh	R. Deshmukh	R. Deshmukh	R. Deshmukh	R. Deshmukh	R. Deshmukh
7	Shil Shrikant Rashid	S. Rashid	S. Rashid	S. Rashid	S. Rashid	S. Rashid	S. Rashid	S. Rashid
8	Aarav Khondharamkhan	A. Khondharamkhan	A. Khondharamkhan	A. Khondharamkhan	A. Khondharamkhan	A. Khondharamkhan	A. Khondharamkhan	A. Khondharamkhan
9	Kalpesh B. Sonune	K. B. Sonune	K. B. Sonune	K. B. Sonune	K. B. Sonune	K. B. Sonune	K. B. Sonune	K. B. Sonune
10	Akash Ramchandra Shinde	A. Shinde	A. Shinde	A. Shinde	A. Shinde	A. Shinde	A. Shinde	A. Shinde
11	Nikita Rajendra Jumar	N. Jumar	N. Jumar	N. Jumar	N. Jumar	N. Jumar	N. Jumar	N. Jumar
12	D.B. Ghemokar	D.B. Ghemokar	D.B. Ghemokar	D.B. Ghemokar	D.B. Ghemokar	D.B. Ghemokar	D.B. Ghemokar	D.B. Ghemokar

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATIS  
 SHRI SHIVAJI ARTS COMMERCE AND SCIENCE COLLEGE MOTALA TO MOTALA DIST BULDHANA

ACADEMIC YEAR :- \_\_\_\_\_  
 ACTIVITY NAME :- \_\_\_\_\_  
 VENUE :- \_\_\_\_\_  
 DATE :- \_\_\_\_\_  
 DEPARTMENT :- \_\_\_\_\_

SR NO	NAME OF THE STUDENT	12 Sect	13 Sect	14 Sect	15 Sect	16 Sect	17 Sect	18 Sect	20 Sect
1	Vaishnavi Shaikhanish Mafari	V.S.Mafari							
2	Geetadevi Vinod Kunte	Ge.V.Kunte							
3	Geetadevi Sunil Kiteche	S.Kiteche							
4	Vaishali Shikharshra Pise	V.S.Pise							
5	Sakshi Ramishankar Gahak <sup>hour</sup>	Gahak							
6	Puja Bhagwat Kavhele	B.Kavhele							
7	Vaishali Gopal Khondke	V.G.Khondke							
8	Nikita Sumesh Sundakar	N.S.Sundakar							
9	Nethanarayan Bhagwat	N.N.Bhagwat							
10									
11									
12									

# Zoology

**Certificate course 2022-23**

**(Sericulture)**

*Shri Shivaji Education Society Amravati's*  
**Shri Shivaji Arts, Commerce & Science College,  
Motala, Dist. Buldhana.**

To  
The Principal,  
Shri Shivaji Arts, Commerce & Science College,  
Motala, Dist. Buldhana.

**Subject:** - To get permission for organize Certificate course on Sericulture.

Respected Sir,

With above cited subject Department of Zoology going to organize Certificate course on Sericulture during 17/03/2023 to 06/04/2023 under the Department of Zoology, Shri Shivaji Art's, Commerce and Science College, Motala, dist. Buldana. Please grant the permission to conduct Certificate course on Sericulture during 17/03/2023 to 06/04/2023.

Thank you

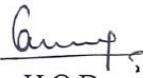
To  
Prop. More  
For Necessary Action  
D. W. S. 14/3/2023

  
HOD of Zoology  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.

*Shri Shivaji Education Society Amravati's*  
**Shri Shivaji Arts, Commerce and Science College, Motala, Dist.  
Buldana**  
**Department of Zoology**  
**2022-2023**

Notice

All the B.Sc. I, II, and III year students of zoology are herewith inform that 15 days certificate course on “Sericulture” has been organized by the Department of Zoology on dated 17/03/2023 to 06/04/2023 at 4.00 PM to 6.00 PM. There is no registration Fees for the students. Registration form will be providing in zoology department. It is very nice opportunity to all to gain knowledge of Sericulture practices. So kindly request to you register and participate in the course.

  
H.O.D  
HOD of Zoology  
Shri Shivaji Arts, Commerce & Science  
College, Motala, Dist. Buldana.



Shri Shivaji Education Society Amravati's  
**Shri Shivaji Arts, Commerce & Science College,  
 Motala, Dist. Buldana**

NAAC Accredited with 'C' grade with CGPA 1.86

**Department of Zoology**  
 In Collaboration with IQAC  
 Organizes



**Certificate Course in "Sericulture"**  
 From 17<sup>th</sup> March to 06<sup>th</sup> April 2023

**Hon'ble President**  
 Shri. Harshwardhan Deshmukh

**Principal**  
 Dr. G. N. Jadhao

**Organizing Committee**

Dr. G. N. Jadhao  
 Principal

Mr. Avinash S. Meherkar  
 IQAC Co-ordinator

Dr. Abhay C. Thakur  
 Head

Dr. Arun B. Gaware  
 Convener

Dr. Chitra D. Morey  
 Organizing Secretary

**Speakers**

Dr. Abhay C. Thakur  
 Head, Asst. Professor,  
 Dept. Of Zoology

Dr. Chitra D. Morey  
 Asst. Professor,  
 Dept. Of Zoology

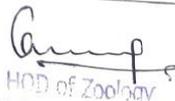
Dr. Arun B. Gaware  
 Asst. Professor,  
 Dept. Of Zoology

Mr. Shivaji Gaikwad &  
 Ms. Pratibha Gaikwad  
 Sericulture Farmer

  
 IQAC CO-ORDINATOR  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala



  
 Principal  
 Shri Shivaji Arts, Commerce  
 & Science College,  
 Motala, Dist. Buldana

  
 HOD of Zoology  
 Shri Shivaji Arts, Commerce & Science  
 College, Motala, Dist. Buldana.

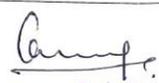
**Activity Schedule**

Day	Content and Syllabus of course	Time
Day 1 17/03/2023 Friday	Introduction About Sericulture	4.15 to 6.15 pm Dr. Abhay C.Thakur
Day 2 18/03/2023 Saturday	Mulberry sericulture :- Cultivation of food plants	4.15 to 6.15 pm Dr. Arun B.Gaware
Day 3 20/03/2023 Monday	Bioecology of mulberry silkworms, Rearing of silkworms	4.15 to 6.15 pm Dr. Chitra D. Morey
Day 4 21/03/2023 Tuesday	Harvesting and Processing of cocoons	4.15 to 6.15 pm Dr. Abhay C.Thakur
Day 5 23/03/2023 Thursday	Reeling appliances, Diseases of Bombyx mori	4.15 to 6.15 pm Dr. Arun B.Gaware
Day 6 24/03/2023 Friday	Predators and parasitoids of silkworm and their management	4.15 to 6.15 pm Dr. Chitra D. Morey
Day 7 25/03/2023 Saturday	Tasar sericulture:- Bioecology and rearing of tasar silkworms. Pupation and cocoon formation, Stifling and reeling of cocoons	4.15 to 6.15 pm Dr. Abhay C.Thakur
Day 8 27/03/2023 Monday	Muga sericulture: Bioecology and rearing of Muga silkworms, Pupation and cocoon formation grainage technology, Stifling and reeling of cocoons	4.15 to 6.15 pm Dr. Arun B. Gaware
Day 9 28/03/2023 Tuesday	Eri sericulture: Bioecology and rearing of Eri silkworms. Pupation and cocoon formation grainage technology, Stifling and reeling of cocoons	4 to 6 pm Dr. Chitra D. Morey
Day 10 29/03/2023 Wednesday	Practical	4.15 to 6.15 pm Mr. Shivaji Gaikwad Ms. Pratibha Gaikwad
Day 11 31/03/2023 Friday	Practical	4.15 to 6.15 pm Mr. Shivaji Gaikwad Ms. Pratibha Gaikwad
Day 12 01/04/2023 Saturday	Practical	4.15 to 6.15 pm Mr. Shivaji Gaikwad Ms. Pratibha Gaikwad
Day 13 03/04/2023 Monday	Practical	4.15 to 6.15 pm Mr. Shivaji Gaikwad Ms. Pratibha Gaikwad
Day 14 05/04/2023 Wednesday	Practical	4.15 to 6.15 pm Mr. Shivaji Gaikwad Ms. Pratibha Gaikwad
Day 15 06/04/2023 Thursday	Grading Test & Feedback	4 to 6 pm

  
**IQAC CO-ORDINATOR**  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala



  
**Principal**  
 Shri Shivaji Arts, Commerce  
 & Science College,  
 Motala, Dist-Buldana

  
**HOD of Zoology**  
 Shri Shivaji Arts, Commerce & Science  
 College, Motala, Dist. Buldana.

*Shri Shivaji Education Society Amravati's*  
**Shri Shivaji Arts, Commerce and Science College, Motala, Dist.  
 Buldana**

**Department of Zoology**  
**Report on :- "Certificate Course on Sericulture"**

**Date and Venue:** 17/03/2023 to 06/04/2023 & Dept. of Zoology, Shri. Shivaji Arts, Commerce & Science College, Motala, Dist. Buldana.

**Description:**

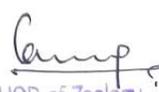
Department of Zoology Organize the Certificate course on Sericulture from 17/03/2023 to 06/04/2023 at Shri Shivaji Arts, Commerce & Science College, Motala, Dist. Buldana. Total 22 students have actively participated in this certificate course.

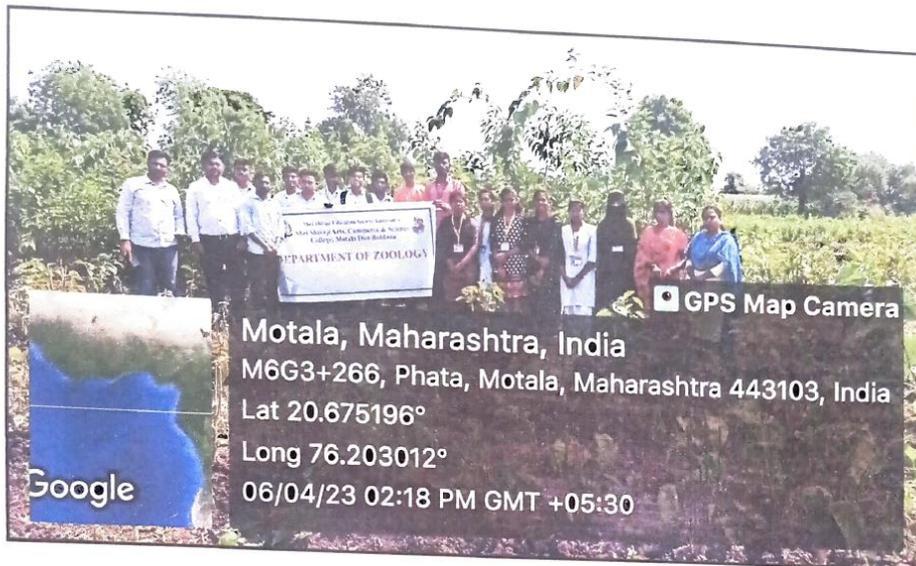
The Department of Zoology, Shri Shivaji College of Arts, Commerce and Science, Motala organized certificate course on sericulture and field visit at the Silk Industry Center at Bhortek. The students of Department of Zoology of Shivaji College visited the silk industry project in the field of Mr. Santosh Gaikwad, a farmer of Bhortek, on April 6, 2022 as part of the silk industry certificate course and field visit. A certificate course is organized every year under a new subject under the Department of Zoology. This year, a certificate course was organized under the subject of Silk Industry under the Department of Zoology. How to do silk industry for students to get in-depth information about the subject of silk industry, the students were guided in depth on the silk industry project in the artificial silk farming farm of Mr. Santosh and Mrs. Pratibha Gaikwad of Bhortek. Sericulture is a modern business and agriculture is always getting more income from this farming. He started this farming from 2015. At first low income but gradually we will get more income in this farm. Mr. Santosh Gaikwad and Mrs. Pratibha Gaikwad asserted to the students that they should think in the future and start such simple methods of farming in their farms. Professor Dr. Abhay Thakur, Head of Department of Zoology, informed the students about the government scheme about silk industry, while Dr. Arun Gaware informed the students about how silkworms are reared, about sericulture required for silk industry like mulberry farming, tussar farming. The principal of the organizing college of the said field trip Dr. Under the guidance of Gajanan Jadhav, Professor in the Department of Zoology Dr. Abhay Thakur, Dr. Chitra More Dr. Done by Arun Gaware.

  
 IQAC CO-ORDINATOR  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala



  
 Principal  
 Shri Shivaji Arts, Commerce  
 & Science College,  
 Motala, Dist-Buldana

  
 HOD of Zoology  
 Shri Shivaji Arts, Commerce & Science  
 College, Motala, Dist. Buldana.



Students in sericulture farm with Zoology teachers

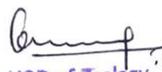


Students of Zoology visited to sericulture unit to acquire practical knowledge from the guidance of farmer Mr. Santosh Gaikwad and Mrs. Pratibha Gaikwad at Bhortek Tq. Motala, Dist Buldhana.

  
 IQAC CO-ORDINATOR  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala



  
 Principal  
 Shri Shivaji Arts, Commerce  
 & Science College,  
 Motala, Dist. Buldhana

  
 HOD of Zoology  
 Shri Shivaji Arts, Commerce & Science  
 College, Motala, Dist. Buldhana.

Paper Cuttings

**शब्ददोलत** सोमवार, दिनांक १० एप्रिल २०२३ ५

## रेशीम उद्योग प्रकल्पास भेट- क्षेत्रीय सहल आणि सर्टिफिकेट कोर्स संपन्न

मोताळा - श्री शिवाजी शिक्षण संस्था अमरावती द्वारा संचालित स्थानिक श्री शिवाजी कला वाणिज्य योजना महाविद्यालय मोताळा येथील प्राणीशास्त्र विभागाद्वारे भोरेटेक येथील रेशीम उद्योग केंद्र येथे रेशीम उद्योग सर्टिफिकेट कोर्स आणि क्षेत्रीय सहल भेटचे आयोजन करण्यात आले होते. भोरेटेक येथील शेतकरी श्री गायकवाड यांच्या शेतात त्यांनी तयार केलेला रेशीम उद्योग प्रकल्प येथे शिवाजी महाविद्यालयातील प्राणीशास्त्र विभागातील विद्यार्थ्यांनी रेशीम उद्योग सर्टिफिकेट कोर्स आणि

आयोजन करण्यात आले होते. विद्यार्थ्यांना रेशीम उद्योग कस करावे, रेशीम उद्योग याविषयीचे सखोल माहिती विद्यार्थ्यांना मिळण्यासाठी भोरेटेक येथील श्री व.स. गायकवाड यांच्या कुत्रिय रेशीम गलत असलेल्या रेशीम उद्योग प्रकल्पावर विद्यार्थ्यांना सखोल मार्गदर्शन करण्यात आले. रेशीम शती हा एक आधुनिक व्यवसाय असून कुर्पी शती पेशाही जास्त उत्पन्न या शैलीतून घेतले जाते. या शैलीची सुरुवात त्यांनी २०१५ पासून केली. सुरुवातीला कमी उत्पन्न पण हळूहळू अभ्यास करून या शैलीमध्ये जास्त उत्पन्न घेऊन पर हेक्टरी इतके उत्पन्न फक्त तीन दिवसांमध्ये घेतले जाते असा हा उद्योग विद्यार्थ्यांनी व्यवसाय म्हणून भविष्यामध्ये विचार करावा व अशी शती संपादन आपल्या शेतामध्ये सुरू करावी असे प्रतिपादन सतीष गायकवाड व प्रतिभा गायकवाड यांनी विद्यार्थ्यांना केले. प्राणीशास्त्र



## रेशीम उद्योग प्रकल्पास भेट ; क्षेत्रीय सहल आणि सर्टिफिकेट कोर्स संपन्न

बुलडाणा, ७ एप्रिल (गुड इन्डिनिंग सिटी) श्री शिवाजी शिक्षण संस्था अमरावती द्वारा संचालित स्थानिक श्री शिवाजी कला वाणिज्य योजना महाविद्यालय मोताळा येथील प्राणीशास्त्र विभागाद्वारे भोरेटेक येथील रेशीम उद्योग केंद्र येथे रेशीम उद्योग सर्टिफिकेट कोर्स आणि क्षेत्रीय सहल भेटचे आयोजन करण्यात आले होते. भोरेटेक येथील शेतकरी गायकवाड यांच्या शेतात त्यांनी तयार केलेला रेशीम उद्योग प्रकल्प येथे शिवाजी महाविद्यालयातील प्राणीशास्त्र विभागातील विद्यार्थ्यांनी रेशीम उद्योग सर्टिफिकेट कोर्स आणि क्षेत्रीय भेट अंतर्गत दिनांक ६ एप्रिल २०२३ रोजी भेट देण्यात आली. स्थानिक श्री शिवाजी कला वाणिज्य विज्ञान महाविद्यालय मोताळा येथील प्राणीशास्त्र विभागात अंतर्गत दरवर्षी नवीन विषयांतर्गत सर्टिफिकेट कोर्सचे आयोजन करण्यात येते. प्राणीशास्त्र रेशीम उद्योग या विषयावर सर्टिफिकेट कोर्सचे आयोजन करण्यात आले होते. विद्यार्थ्यांना रेशीम उद्योग कस करावे, रेशीम उद्योग याविषयीचे सखोल माहिती विद्यार्थ्यांना मिळण्यासाठी भोरेटेक येथील श्री व.स. गायकवाड यांच्या कुत्रिय रेशीम शेतात असलेल्या रेशीम उद्योग प्रकल्पावर विद्यार्थ्यांना सखोल मार्गदर्शन करण्यात आले. रेशीम शती हा एक आधुनिक व्यवसाय असून कुर्पी शती पेशाही जास्त उत्पन्न या शैलीतून घेतले जाते. या शैलीची सुरुवात त्यांनी २०१५ पासून केली. सुरुवातीला कमी उत्पन्न पण हळूहळू अभ्यास करून या शैलीमध्ये जास्त उत्पन्न घेऊन पर हेक्टरी इतके उत्पन्न फक्त तीन दिवसांमध्ये घेतले जाते असा हा उद्योग विद्यार्थ्यांनी व्यवसाय म्हणून भविष्यामध्ये विचार करावा व अशी शती संपादन आपल्या शेतामध्ये सुरू करावी असे प्रतिपादन सतीष गायकवाड व प्रतिभा गायकवाड यांनी विद्यार्थ्यांना केले. प्राणीशास्त्र विभाग प्रमुख प्रा. डॉ. अभय ठाकूर यांनी विद्यार्थ्यांना रेशीम उद्योग विषयी असणाऱ्या सरकारी योजनांची माहिती दिली तर डॉ. अरुण गवारे यांनी विद्यार्थ्यांना रेशीम किड्याचे संगोपन कसे केले जाते, रेशीम उद्योगासाठी लागणाऱ्या रेशीम शती जसे तुली शती, तुसार शती, याबद्दल माहिती दिली. सदर क्षेत्रीय सहलीचे आयोजन महाविद्यालयाचे प्राचार्य डॉ. गजाननराव जाधव यांच्या मार्गदर्शनाअंतर्गत प्राणीशास्त्र विभागातील प्रा. डॉ. अभय ठाकूर प्रा. डॉ. चिंता मोरे प्रा. डॉ. अरुण गवारे यांनी केले.

प्राणीशास्त्र रेशीम उद्योग या विषयावर सर्टिफिकेट कोर्सचे आयोजन करण्यात आले होते. विद्यार्थ्यांना रेशीम उद्योग कस करावे, रेशीम उद्योग याविषयीचे सखोल माहिती विद्यार्थ्यांना मिळण्यासाठी भोरेटेक येथील श्री व.स. गायकवाड यांच्या कुत्रिय रेशीम शेतात असलेल्या रेशीम उद्योग प्रकल्पावर विद्यार्थ्यांना सखोल मार्गदर्शन करण्यात आले. रेशीम शती हा एक आधुनिक व्यवसाय असून कुर्पी शती पेशाही जास्त उत्पन्न या शैलीतून घेतले जाते. या शैलीची सुरुवात त्यांनी २०१५ पासून केली. सुरुवातीला कमी उत्पन्न पण हळूहळू अभ्यास करून या शैलीमध्ये जास्त उत्पन्न घेऊन पर हेक्टरी इतके उत्पन्न फक्त तीन दिवसांमध्ये घेतले जाते असा हा उद्योग विद्यार्थ्यांनी व्यवसाय म्हणून भविष्यामध्ये विचार करावा व अशी शती संपादन आपल्या शेतामध्ये सुरू करावी असे प्रतिपादन सतीष गायकवाड व प्रतिभा गायकवाड यांनी विद्यार्थ्यांना केले. प्राणीशास्त्र विभाग प्रमुख प्रा. डॉ. अभय ठाकूर यांनी विद्यार्थ्यांना रेशीम उद्योग विषयी असणाऱ्या सरकारी योजनांची माहिती दिली तर डॉ. अरुण गवारे यांनी विद्यार्थ्यांना रेशीम किड्याचे संगोपन कसे केले जाते, रेशीम उद्योगासाठी लागणाऱ्या रेशीम शती जसे तुली शती, तुसार शती, याबद्दल माहिती दिली. सदर क्षेत्रीय सहलीचे आयोजन महाविद्यालयाचे प्राचार्य डॉ. गजाननराव जाधव यांच्या मार्गदर्शनाअंतर्गत प्राणीशास्त्र विभागातील प्रा. डॉ. अभय ठाकूर प्रा. डॉ. चिंता मोरे प्रा. डॉ. अरुण गवारे यांनी केले.



DR. ABHAY THAKUR  
HOD of Zoology  
Shri Shivaji Arts, Commerce & Science College, Motala



DR. CHINTA MORE  
HOD of Zoology  
Shri Shivaji Arts, Commerce & Science College, Motala, Dist. Buldana.

**Shri Shivaji Education Society Amravati's**  
**SHRI SHIVAJI ARTS COMMERCE & SCIENCE COLLEGE MOTALA, DIST. BULDANA (M.S.)**



Department of Zoology  
 In Collaboration with IQAC  
 organized



Certificate Course on "Sericulture"  
**Certificate of Completion**

*This is to certify that Gokul Gajanan Shinde of Shri Shivaji Arts, Commerce And Science College, Motala, accomplished the certificate course on "Sericulture" organized by Department of Zoology, Shri Shivaji Arts, Commerce And Science College, Motala, Dist. Buldana from 17<sup>th</sup> March to 06<sup>th</sup> April 2023.*

*[Signature]*  
**Dr. C.D. Morey**  
 Organizing Secretary  
 Dept. Of Zoology

*[Signature]*  
**Dr. A. B. Gaware**  
 Convener  
 Dept. Of Zoology

*[Signature]*  
**Dr. A. C Thakur**  
 HOD  
 Dept. Of Zoology

*[Signature]*  
**Dr. G. N. Jadhav**  
 Principal

Certificate Course in "Sericulture" From 17 March to 06 April 2023  
 Attendance

Sr. No.	Name of the Student	17/03/2023	18/03/23	20/03/23	21/03/23	23/03/23	24/03/23	25/03/23	27/03/23	28/03/23	29/03/23	30/03/23	31/03/23	01/04/23	04/04/23
1	Vaibhav Ganesh Pachpor	P	P	A	P	P	A	P	P	A	P	P	P	P	P
2	Gokul Gajanan Shinde	P	A	P	P	A	P	P	A	P	P	P	P	A	P
3	Pradip Kaduba Dikkar	P	P	A	P	P	A	P	P	P	P	P	A	P	P
4	Gopal R. Lanjulkar	P	P	P	A	P	P	A	P	P	P	P	A	P	P
5	Vishal Rajendra Chaube	P	A	P	P	P	A	P	P	A	P	P	P	A	P
6	Millind Ashok Athawale	P	P	A	P	A	P	P	P	P	P	P	A	P	P
7	Abu Saleh Umair Sk Husain	P	P	P	P	A	P	P	P	A	A	P	P	P	P
8	Rizwan Shah Ishaque Shah	P	P	P	P	P	A	P	P	P	P	P	A	P	P
9	Sonal Suresh Pawar	A	P	A	P	P	P	P	A	P	A	P	A	P	P
10	Ruchita Sudhakar Sawale	P	P	P	P	A	P	A	P	P	A	P	P	P	P
11	Sejal Dilip Ahire	P	A	P	P	A	P	P	A	P	P	P	P	P	P
12	Mahima Sunil Ahire	P	P	P	A	P	P	P	A	P	P	P	A	P	P
13	Komal Ganesh Dikkar	P	P	P	A	P	A	P	P	P	P	P	P	P	P
14	Yasmin Parvin Sayyed Sadroddin	A	P	P	P	A	P	P	P	A	P	P	P	P	P
15	Sana Kausr Rafik Shaha	P	P	A	P	P	P	A	P	P	P	P	P	P	P
16	Reshma Bi Shaikh Rafique	P	P	P	A	P	P	A	P	P	P	P	P	A	P
17	Ganesh Bhagwat Bhatarkar	P	P	P	P	A	P	P	A	P	P	A	P	P	P
18	Pratiksha Gopal Kukde	A	P	P	P	A	P	P	A	P	P	A	P	P	P
19	Vaishnavi Janrao Kukde	P	P	A	P	P	A	P	P	P	P	A	P	P	P
20	Ankita Sanjay Narkhede	A	P	P	P	A	P	P	A	A	P	P	P	P	P
21	Shivaji Subhas Pawar	P	P	A	P	P	P	A	P	P	P	A	P	P	P
22	Neha Purushottam. Khandare	A	P	P	P	A	P	A	P	P	P	A	P	P	P

IQAC CO-ORDINATOR  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala



Principal  
 Shri Shivaji Arts, Commerce  
 & Science College,  
 Motala, Dist-Buldana

*[Signature]*  
 Principal  
 Shri Shivaji Arts, Commerce  
 & Science College, Motala, Dist-Buldana

Shri Shivaji Education Society Amravati  
**Shri Shivaji Arts, Commerce & Science College,**  
**Motala, Dist. Buldana.**

Department of Zoology  
 Certificate course on "SERICULTURE"  
 Final Exam

28  
 40M

Time: 1.00 Hr.

Name of the Student:- Gokul Gajanan Shinde

Marks:40

**Multiple Choice Questions :**

- ✓ Q-1: Study of Mulberry plant is  
 a) Sericulture      b) Vermiculture      c) Moriculture      d) All the above
- ✓ Q-2: Moultng occurs during life  
 a) 4 times      b) 3 times      c) 2 times      d) 1 times
- ✓ Q-3: Mature larvae of silkmoth is used for  
 a) Rearing      b) Reeling      c) Moultng      d) Mountng
- ✓ Q-4: The study of culture of mulberry plant called  
 a) Sericulture      b) Vermiculture      c) Moriculture      d) Apiculture
- ✗ Q-5: The egg of silkworm is of following type  
 a) Centrolecithal      b) Alecithal      c) Megalecithal      d) Microlecithal
- ✓ Q-6: Pupa is known as  
 a) Chrysalis      b) Imago      c) Caterpillar      d) Cocoon
- ✗ Q-7: Fungal disease of silkworm is  
 a) Muscardine      b) Flacherie      c) Pebrine      d) Sotto disease
- ✓ Q-8: Shoot borer pest of mulberry is  
 a) Stick insect      b) Termites      c) Mites      d) Snails
- ✓ Q-10: The golden yellow silk produced by  
 a) Eri silk      b) Muga silk      c) Tasar silk      d) None of them
- ✓ Q-11: Azolla is  
 a) Xerophyte      b) Lichens      c) Aquatic      d) Aquatic algae
- ✗ Q-12: Silk glands are modified  
 a) Salivary gland      b) Labile gland      c) Tracheal gland      d) Gland
- ✓ Q-13: Pupa moult within  
 a) Egg      b) Zygote      c) Cocoon      d) Worm
- ✗ Q-14: Dwarf disease of mulberry is  
 a) Fungal      b) viral      c) bacterial      d) nematodal
- ✓ Q-15: This species produces silk of the superior quality  
 a) Attacus atlas      b) Bombyx mori      c) Attacus ricini      d) Antheraea assamensis
- ✓ Q-15: Silk is produced by  
 a) Cocoon      b) adult moth      c) larva      d) larva and adult moth
- ✓ Q-16: Insects not found in wild state is  
 a) Cochineal insect      b) lac insect      c) silk moth      d) honey bee
- ✓ Q-17: Pick the set of beneficial insects to man  
 a) Sandfly, honey bee, butterfly, silk worm, wasp, honey bee,  
 b) honey bee, cockroach, silkworm  
 c) silk moth      d) honey bee, cochineal insect, lac insect
- ✗ Q-18: Silk contains a protein known as  
 a) Casein      b) Fibroin      c) Sericin      d) Both b and c.
- ✗ Q-19: The life span of an adult "Bombyx mori"  
 a) 2 days      b) 3-4 days      c) 6 days      d) 8 days
- ✓ Q-20: Pick the correct statement  
 a) Larval form of moth produces silk,      b) salivary glands of the moth produce silk  
 b) by boiling, silk is extracted from cocoon of a moth      d) Both a and c.

IQAC CO-ORDINATOR  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala



Principal  
 Shri Shivaji Arts, Commerce  
 & Science College,  
 Motala, Dist. Buldana

HOD of Zoology  
 Shri Shivaji Arts, Commerce & S  
 College, Motala, Dist. Buldana.

- Q-21: The silkworm larva ceases to eat and begins spinning silk all over its body  
 a) from inside to outside     b) from outside to inside    c) in a random motion    d) All the above
- Q-22: Honey, silk and lac are  
 a) artificial elements     b) secretory substance of plants  
 c) secretory substance of insects    d) All of these
- Q-23: Which is known as the silk in the gum?  
 a) Raw silk     b) Dupion silk    c) Pure dye silk    d) Khadi silk
- Q-24: What is silk filature?  
 a) It is a variety of cocoon     b) It is type of fibre    c) It is a type of cloth     d) It is silk factory
- Q-25: What is the density of silk fibre?  
 a) 0.64 gm/cubic centimeter    b) 2.64 gm/ cubic centimeter  
 c) 1.64 gm/cubic centimeter    c) 3.64 gm/cubic centimeter
- Q-26: In which process a silk gains weight?  
 a) Process of degumming    b) Process of weighting    c) Process of stifling    d) All of the above
- Q-27: Which is a reeling technology?  
 a) Charka    b) Cottage basin     c) Multi end reeling technology    d) All of the above
- Q-28: Which is the young age silkworm?  
 a) Pupa     b) Adult    c) Spinning worms    d) Chawki
- Q-29: ----- and ----- are the two main producer of silk?  
 a) China, Japan    b) China, Burma    c) China, India    d) China, Brazil
- Q-30: The silkworm spin cocoon ?  
 a) 4<sup>th</sup> moult     b) 3<sup>rd</sup> moult    c) 2<sup>nd</sup> moult    d) Either a or b
- Q-31: The distribution pattern of saliva by the silk worm is?  
 a) Figure Z     b) Figure S    c) Figure 8    d) Figure 3
- Q-32: Pebrin is the ----disease of B. mori?  
 a) Viral    b) Bacterial     c) Fungal    d) Protozoan
- Q-33: The munga silkworm is specific to--?  
 a) Rajasthan    b) Tamil Nadu     c) J & K    d) Assam
- Q-34: The major pest of silk worm  
 a) Wasps    b) Uzifly     c) Nysolynx    d) All of the above
- Q-35: The silk of silk worm is a..?  
 a) Separate filament     b) Continuous filament    c) Several filament    d) Discrete filament
- Q-36: There are----- types of mulberry silkworm?  
 a) 2 types    b) 1 type    c) 4 type     d) 3 type
- Q-37: The Eri silkworm is a/an?  
 a) Univoltine     b) Multivoltine    c) Bivoltine    d) All the above
- Q-38: The major activity in sericulture?  
 a) Cultivation of food plant for silkworm    b) Rearing of silkworm  
 c) Production of silk    d) Production of mulberry
- Q-39: What is the most common disease in Mulberry nurseries?  
 a) Wilt disease     b) Twig disease    c) Collor rot    d) Stem blight
- Q-40: Mulberry plant is a  
 a) Annual plant    b) Biennial plant    c) Evergreen     d) Perennial

## Sericulture certificate course final exam Marks list

Sr. No.	Name of the Student	Obtained Marks
1	Vaibhav Ganesh Pachpor	26
2	Gokul Gajanan Shinde	28
3	Pradip Kaduba Dikkar	36
4	Gopal R. Lanjulkar	32
5	Vishal Rajendra Chaube	34
6	Millind Ashok Athawale	36
7	Abu Saleh Umair Sk Husain	39
8	Rizwan Shah Ishaque Shah	37
9	Sonal Suresh Pawar	35
10	Ruchita Sudhakar Sawale	32
11	Sejal Dilip Ahire	38
12	Mahima Sunil Ahire	39
13	Komal Ganesh Dikkar	36
14	Yasmin Parvin Sayyed Sadroddin	32
15	Sana Kaur Rafik Shaha	31
16	Reshma Bi Shaikh Rafique	30
17	Ganesh B. Bhatarkar	29
18	Pratiksha G. Kukde	31
19	Vaishnavi Kukde	32
20	Ankita S. Narkhede	34
21	Shivaji S. Pawar	35
22	Neha P. Khandare	37

  
 IQAC CO-ORDINATOR  
 Shri Shivaji Arts, Commerce  
 and Science College, Motala

  
 Principal  
 Shri Shivaji Arts, Commerce  
 & Science College,  
 Motala, Dist-Buldana

  
 HOD of Zoology  
 Shri Shivaji Arts, Commerce & Science  
 College, Motala, Dist. Buldana.

