

DEPARTMENT OF ZOOLOGY

CAREER ORIENTED PROGRAM

**CERTIFICATE COURSE IN
VERMICULTURE**

(2012-2019)



**SHRI. SHIVAJI ART'S, COMMERECE &
SCIENCE COLLEGE, AKOT, DIST. Akola**

Preface

Shri. Shivaji Arts, Commerce and Science College, Akot is one of the reputed institute from Akola District of Maharashtra. This college provides the education at Under Graduate, Post Graduate and Research (Ph.D.) Level. College received the sanction from UGC to introduce certificate courses under Career Oriented Program (COP) on self financed basis. The Department of Zoology launched a Career oriented Program- Vermicomposting In June 2012.

The main objective of the courses is to explore the possibilities with sustainable agriculture practices and various concepts from how to turn all kinds of waste garbage to valuable compost to impart the knowledge of converting the weeds into food of earthworms and preparing vermicompost and more. This course included the several topics on the general characteristics and cultural requirements of worms, substrates, advantages and economics of Vermicomposting, and quality analysis of some vermicompost formulations.

Objective of study

A program made the students self sufficient with professional skills to improve student's employability.

Committee and Faculty Member

Dr. V. B. Bhagat
Mr. R. S. Mankar
Dr. A. L. Shelekar
Dr. P. S. Joshi
Ms. S. G. Rodge
Mr. P. R Thakare

Time table

Day	Faculty	Theory	Practical
Monday	Dr. V. B. Bhagat	8.00 to 9.00 am	9.00 to 10.00 am
Tuesday	Mr. R. S. Mankar	8.00 to 9.00 am	9.00 to 10.00 am
Wednesday	Dr. A. L. Shelekar	8.00 to 9.00 am	9.00 to 10.00 am
Thursday	Ms. S. G. Rodge	8.00 to 9.00 am	9.00 to 10.00 am
Friday	Dr. P. S. Joshi	8.00 to 9.00 am	9.00 to 10.00 am
Saturday	Mr. P. R Thakare	8.00 to 9.00 am	9.00 to 10.00 am

Syllabus (Theory)

Unit- 1

- 1.1 Introduction to vermiculture and vermicompost.
- 1.2 Systematic position, Habit and Habitat of Earthworm.
- 1.3 External features, shape & size, colouration & distribution of earth worms.
- 1.4 Body segmentation.
- 1.5 Species of earthworm used in vermiculture.
- 1.6 Economic Importance (roles +ve and -ve)

Unit -2

- 2.1 Food and feeding habitats of the earth worms.
- 2.2 Digestive system of earthworm.
- 2.3 Reproduction in Earthworm
- 2.4 Respiration in Earthworm.

Unit- 3

- 3.1 Earthworm for animal feeds.
- 3.2 Casting of earthworm as a biofertilizer.
- 3.3 Requirements for vermiculture.
- 3.4 Vermicomposting materials used in sericulture (organic waste)
- 3.5 Cattle dung plant product.

Unit - 4

- 4.1 Preliminary treatment of composting a material.
- 4.2 Vermicomposting material storage.
- 4.3 Preparation of vermiculture bed.
- 4.4 Maintenance of vermiculture bed.
- 4.5 Natural enemies and their control.

Unit- 5

- 5.1 Composition of vermicompost and worms.
- 5.2 Harvesting vermicompost and worms.
- 5.3 Marketing of vermicompost and worms.
- 5.4 Marketing of seed worms.
- 5.5 Role of vermicompost as fertilizers in agriculture.

Pattern of marks distribution for Theory Exam

Time-03 Hrs.	Marks-100
Q-1.....	20 Marks
Q-2.....	20 Marks
Q-3.....	20 Marks
Q-4	
a).....	10 Marks
b).....	10 Marks
OR	
c).....	10 marks
d).....	10 Marks
Q-5	
a).....	05 Marks
b).....	05 Marks
c).....	05 Marks
d).....	05 Marks
OR	
e).....	05 Marks
f).....	05 Marks
g).....	05 Marks
h).....	05 Marks

Syllabus (Practical)

Part - A

Aim: Identification, classification and comment on

- 1) To study the external characters of earthworms.
- 2) Study of different species of earthworms.

- 3) Study of different vermiculture material.
- 4) Histological study of -
 - A) Gizzard
 - B) Testis
 - C) Ovary
 - D) Spematheca
 - E) Septal nephridia
- 5) Cattle dung
- 6) Plant product
- 7) Agricultural water

Part- B

Aim: To study the different systems of earthworm

- 1) To dissect out Alimentary canal of earth worm.
- 2) Dissection of reproductive system of earth worm.
- 3) Dissection of nerve ring of the earthworm.
- 4) Dissection and isolation of
 - a) Septaln ephridia.
 - b) Spermatheca.
 - c) Setae.

Part- C

Aim: Permanent micropreparation of

- 1) Spermathecae.
- 2) Septal nephridia.
- 3) Setae.
- 4) Testis.
- 5) Ovary.

Marks distribution for practice exam

Time-3 hrs

50 Marks

Q-1 Spotting (1to05)	15Marks
Q-2 Dissection.....	15 Marks
Q-3 Permanent micropreparation.....	08 Marks
Q-4 Class Record.....	06 Marks
Q-5 Viva-voice.....	06 Marks

Project works involving 90 Hrs work on any of topic included in syllabus (Practical/Theory).....50 Marks

Requirements for Vermiculture –

- 1) Container
- 2) Vegetable waste
- 3) pH meter, cattle dung, Cow, buffalo, Sheep, Horse, Goat & poultry dropping
- 4) Agriculture waste-Stem, leaves & refuse of crops
- 5) Stem & leaves of weeds
- 6) Orchard leaf litter, sugarcane trash
- 7) Plant product-saw dust & pulp, various types of leaf litter, grasses life litter from avenue or residential areas.
- 8) Machinery-
 - Thresher
 - Mechanical choppers
 - Mixer for mixing waste organic material.
 - Hand bore, digger etc.
 - Mechanical sieve
 - Weighing machine.
 - Sealing, packing machine etc.

Carrier oriented course- Vermiculture

Total Marks-200

Marks-100 Theory

Marks-50 Practical

Marks-50 Project work

Certificate course in Vermiculture (COP) / Student Enrollment (2012-13)

Sr.	Name	Theory 100	Practical 50	Project 50	Total 200	Result
1.	Ku. A. P. Jufar	65	45	47	157	Pass
2.	Ku. A. P. Ambalkar	67	44	48	159	Pass
3.	Ku. A. P. Thakare	73	41	48	162	Pass
4.	Ku. D. R. Supkar	64	47	45	156	Pass
5.	Ku. D. S. Manmode	68	47	47	162	Pass
6.	Ku. G. M. Asakar	71	42	46	159	Pass
7.	Ku. P. A. Mohokar	66	44	49	159	Pass
8.	Ku. P. D. Dhoke	69	45	48	162	Pass
9.	Ku. P. R. Subhagchandani	73	46	47	166	Pass
10.	Ku. S. A. Dembla	65	47	75	187	Pass
11.	Ku. S. D. Metkar	64	48	42	154	Pass
12.	Ku. S. R. Choukhande	59	46	43	148	Pass
13.	Ku. S. S. Sharma	58	49	46	153	Pass
14.	Ku. S. V. Kale	61	48	48	157	Pass
15.	Ku. U. B. Akbani	63	41	49	153	Pass
16.	Ku. V. G. Damodar	71	43	48	162	Pass
17.	Ku. V. W. Ghayal	73	44	47	164	Pass
18.	Mr. A. S. Gawande	78	45	44	167	Pass
19.	Mr. S. G. Shah	62	46	45	153	Pass
20.	Mr. T. A. Sabir	64	45	46	155	Pass
21.	Ku. A. V. Werulkar	67	42	45	154	Pass
22.	Ku. D. G. Tayade	57	44	48	149	Pass
23.	Ku. K. P. Gawande	71	43	46	160	Pass
24.	Ku. K. P. Gawande	69	47	48	164	Pass
25.	Ku. N. S. Hadole	56	45	47	148	Pass
26.	Ku. P. A. Mohokar	78	43	45	166	Pass
27.	Ku. P. M. Borode	71	42	45	158	Pass
28.	Ku. P. S. Suryavanshi	76	41	45	162	Pass
29.	Ku. P.S. Pawar	64	46	46	156	Pass
30.	Ku. S. G. Dhagekar	62	48	48	158	Pass
31.	Ku. S. M. Baig	61	47	47	155	Pass
32.	Ku. S. V. Kale	69	45	49	163	Pass
33.	Ku. U. P. Makode	68	48	46	162	Pass
34.	Ku. W. A. Deshmukh	76	46	45	167	Pass
35.	Ku., K. S. Ingle	69	43	42	154	Pass
36.	Mr. A. A. Ahemad	61	42	48	151	Pass
37.	Mr. A. A. Zahir	54	41	45	140	Pass
38.	Mr. P. R. Yeul	57	42	45	144	Pass
39.	Mr. S. S Gaffar	67	44	45	156	Pass
40.	Mr. S. S. Samir	78	43	44	165	Pass

Certificate course in Vermiculture (COP)/ Student Enrollment (2013-14)

Sr.	Name	Theory 100	Practical 50	Project 50	Total 200	Result
1.	Ku. A. A. Chaudhari	64	42	48	154	Pass
2.	Ku. A. D. Chaudhary	67	44	47	158	Pass
3.	Ku. A. D. Mendhae	57	43	45	145	Pass
4.	Ku. A. G. Maskar	71	47	45	163	Pass
5.	Ku. A. G. Rele	69	45	45	159	Pass
6.	Ku. A. K. Gahale	56	43	46	145	Pass
7.	Ku. A. K. Rokade	78	42	48	168	Pass
8.	Ku. A. M. Navthale	71	41	47	159	Pass
9.	Ku. A. M. Navthale	76	46	49	171	Pass
10.	Ku. A. M. Puri	64	48	46	158	Pass
11.	Ku. A. S. Farkade	62	47	45	154	Pass
12.	Ku. A. S. Lonkar	61	45	42	148	Pass
13.	Ku. A. V. Bedkar	69	48	48	165	Pass
14.	Ku. A. V. Shande	68	46	45	159	Pass
15.	Ku. B. A. Hiwase	76	43	45	164	Pass
16.	Ku. D. R. Dagate	69	42	45	156	Pass
17.	Ku. P. A. Nagle	61	41	44	146	Pass
18.	Ku. V. Bedarkar	54	42	47	143	Pass
19.	Mr. D. M. Solakr	57	44	48	149	Pass
20.	Mr. D. S. Lahane	67	43	48	158	Pass
21.	Ku. D. R. Tade	68	45	45	158	Pass
22.	Ku. G. A. Vidhvans	65	44	47	156	Pass
23.	Ku. K. U. Sontakke	67	41	46	154	Pass
24.	Ku. K. R. Fursule	73	47	49	169	Pass
25.	Ku. K. S. Gawande	64	47	48	159	Pass
26.	Ku. K. S. Vasu	68	42	47	157	Pass
27.	Ku. K. N. Thakare	71	44	75	190	Pass
28.	Ku. M. A. Olokar	66	45	42	153	Pass
29.	Ku. M. G. Lahane	69	46	43	158	Pass
30.	Ku. M. G. Hutke	73	47	46	166	Pass
31.	Ku. M. M. Makode	65	48	48	161	Pass
32.	Ku. N. S. Nimkarde	64	46	49	159	Pass
33.	Ku. N. K. Deshmukh	59	49	48	156	Pass
34.	Ku. N. P. Jaisingpure	58	48	47	153	Pass
35.	Ku. B. P. Kedar	61	41	44	146	Pass
36.	Ku. P. A. Nagare	63	43	45	151	Pass
37.	Ku. P. V. Thokdive	71	44	46	161	Pass
38.	Ku. P. D. Borkar	73	45	45	163	Pass
39.	Ku. P. P. Mahale	78	46	48	172	Pass
40.	Ku. P. V. Borode	62	45	46	153	Pass

Certificate course in Vermiculture (COP)/ Student Enrollment (2014-15)

Sr.	Name	Theory 100	Practical 50	Project 50	Total 200	Result
1.	Ku. .R. S. Gawai	63	43	45	151	Pass
2.	Ku. B. S. Sanap	67	41	46	154	Pass
3.	Ku. C. P. Dhande	73	47	49	169	Pass
4.	Ku. D. N. Aghadate	64	47	48	159	Pass
5.	Ku. D. S. Umak	68	42	47	157	Pass
6.	Ku. D. S. Wankhade	71	44	75	190	Pass
7.	Ku. Ku. P. G. Rele	66	45	42	153	Pass
8.	Ku. P. B. Banetkar	65	48	48	161	Pass
9.	Ku. P. D. Hage	69	46	43	158	Pass
10.	Ku. P. M. Hadole	73	47	46	166	Pass
11.	Ku. P. P. Waghmare	64	42	48	154	Pass
12.	Ku. P. P. Waghmare	62	47	45	154	Pass
13.	Ku. P. S. Bhagat	67	44	47	158	Pass
14.	Ku. P. S. Bhagat	61	45	42	148	Pass
15.	Ku. P. S. Taksale	57	43	45	145	Pass
16.	Ku. R. A. Dhepe	61	41	44	146	Pass
17.	Ku. R. G. Mankar	58	48	47	153	Pass
18.	Ku. R. S. Nemade	59	49	48	156	Pass
19.	Ku. R. S. Raut	64	46	49	159	Pass
20.	Ku. S. A. Kalskar	65	44	47	156	Pass
21.	Ku. S. A. Rthod	68	45	45	158	Pass
22.	Ku. S. C. Zape	69	48	48	165	Pass
23.	Ku. S. G. Pande	76	43	45	164	Pass
24.	Ku. S. K. Gotmare	78	46	48	172	Pass
25.	Ku. S. K. Makode	73	45	45	163	Pass
26.	Ku. S. P. Mankar	61	41	44	146	Pass
27.	Ku. S. S. Dange	68	46	45	159	Pass
28.	Ku. S. S. Varma	71	44	46	161	Pass
29.	Ku. S. V. Fuse	67	43	48	158	Pass
30.	Ku. T. S, Nagpure	69	42	45	156	Pass
31.	Ku. V. G Raut	54	42	47	143	Pass
32.	Ku. V. V. Gaikwad	57	44	48	149	Pass
33.	Mr. B. V. Shete	71	47	45	163	Pass
34.	Mr. A. A. Khan	69	45	45	159	Pass
35.	Mr. A. K. Khan	56	43	46	145	Pass
36.	Mr. A. N. Dhande	78	42	48	168	Pass
37.	Mr. C. B. Ghuge	71	41	47	159	Pass
38.	Mr. C. C. Hore	76	46	49	171	Pass
39.	Mr. D. V. Metkar	64	48	46	158	Pass
40.	Ku. S. P. Wakode	62	45	46	153	Pass

Certificate course in Vermiculture (COP)/ Student Enrollment (2015-16)

Sr.	Name	Theory 100	Practical 50	Project 50	Total 200	Result
1.	Ku. A. A. Khatoon	64	42	48	154	Pass
2.	Ku. A. D. Nage	62	47	45	154	Pass
3.	Ku. A. K. Khan	67	44	47	158	Pass
4.	Ku. A. S. Wankhade	61	45	42	148	Pass
5.	Ku. A.V. Bale	57	43	45	145	Pass
6.	Ku. C. B. Ghuge	61	41	44	146	Pass
7.	Ku. D. A. Nichal	58	48	47	153	Pass
8.	Ku. D. S. Thakre	67	41	46	154	Pass
9.	Ku. D. S. Umap	63	43	45	151	Pass
10.	Ku. G. G. Wankhade	71	44	75	190	Pass
11.	Ku. G. M. Mohod	68	42	47	157	Pass
12.	Ku. G. N. Gote	59	49	48	156	Pass
13.	Ku. G. S. Mangle	64	47	48	159	Pass
14.	Ku. J. R. Fursule	64	46	49	159	Pass
15.	Ku. K. A. Talokar	61	41	44	146	Pass
16.	Ku. K. G. Dharme	68	45	45	158	Pass
17.	Ku. K. M. Akotkar	73	47	46	166	Pass
18.	Ku. K. P. Guhe	69	46	43	158	Pass
19.	Ku. K. P. Jambhale	54	42	47	143	Pass
20.	Ku. K. P. Varma	65	48	48	161	Pass
21.	Ku. K. R. Dhepe	57	44	48	149	Pass
22.	Ku. K. R. Gawande	65	44	47	156	Pass
23.	Ku. K. S. Wankhade	71	47	45	163	Pass
24.	Ku. K. V. Chore	76	43	45	164	Pass
25.	Ku. K. V. Hadole	78	46	48	172	Pass
26.	Ku. K. V. Wadole	66	45	42	153	Pass
27.	Ku. L. B. Sawarkar	68	46	45	159	Pass
28.	Ku. M. D. Jakate	67	43	48	158	Pass
29.	Ku. M. S. Akotkar	71	44	46	161	Pass
30.	Ku. N. V. Nathe	69	42	45	156	Pass
31.	Mr. A. J. Waris	69	45	45	159	Pass
32.	Mr. A. M. Madankar	56	43	46	145	Pass
33.	Mr. A. N. Dhande	78	42	48	168	Pass
34.	Mr. A. R. Harney	71	41	47	159	Pass
35.	Mr. A. S. Shendarkar	76	46	49	171	Pass
36.	Mr. D. R. Bharate	73	47	49	169	Pass
37.	Mr. D. V. Metkar	64	48	46	158	Pass
38.	Mr. K. M. Solkar	69	48	48	165	Pass

39.	Mr. K. V. Chinchole	73	45	45	163	Pass
40.	Mr. M. D. Pande	62	45	46	153	Pass

Certificate course in Vermiculture (COP)/ Student Enrollment (2016-17)

Sr.	Name	Theory 100	Practical 50	Project 50	Total 200	Result
1.	Ku. A. A. Kokate	68	46	45	159	Pass
2.	Ku. A. A. Tomar	67	43	48	158	Pass
3.	Ku. A. B. Ingole	71	44	46	161	Pass
4.	Ku. A. B. Jaybhaye	69	42	45	156	Pass
5.	Ku. A. J. Hiwarale	69	45	45	159	Pass
6.	Ku. A. K. Aswar	56	43	46	145	Pass
7.	Ku. A. K. Raut	78	42	48	168	Pass
8.	Ku. A. M. Dhule	58	48	47	153	Pass
9.	Ku. A. M. Dhule	67	41	46	154	Pass
10.	Ku. A. N. Wankhade	63	43	45	151	Pass
11.	Ku. A. P. Pinjkar	71	44	75	190	Pass
12.	Ku. A. R. Amabalkar	68	42	47	157	Pass
13.	Ku. A. R. Kahde	59	49	48	156	Pass
14.	Ku. A. S. Wankhade	71	41	47	159	Pass
15.	Ku. A. S. Zape	76	46	49	171	Pass
16.	Ku. B. R. Bhagat	73	47	49	169	Pass
17.	Ku. C. B. Shegaonkar	64	48	46	158	Pass
18.	Ku. C. G. Missal	69	48	48	165	Pass
19.	Ku. C. R. Rathod	73	45	45	163	Pass
20.	Ku. D. B. Wankhade	65	48	48	161	Pass
21.	Ku. D. G. Pundkar	62	45	46	153	Pass
22.	Ku. D. R. Bharsakale	57	44	48	149	Pass
23.	Ku. G. G. Mangle	65	44	47	156	Pass
24.	Ku. G. G. Wankhade	76	43	45	164	Pass
25.	Ku. G. P. Gawande	78	46	48	172	Pass
26.	Ku. G. S. Bute	71	47	45	163	Pass
27.	Ku. K. N. Patakr	66	45	42	153	Pass
28.	Ku. K. S. Dakare	64	42	48	154	Pass
29.	Ku. M. K Awasthi	61	45	42	148	Pass
30.	Ku. M. N. Raut	62	47	45	154	Pass
31.	Ku. M. S. Sable	67	44	47	158	Pass
32.	Ku. M. S. Thakare	57	43	45	145	Pass
33.	Ku. N. S. Rokde	61	41	44	146	Pass
34.	Ku. P. P. Wakode	64	47	48	159	Pass
35.	Mr. A. A. Kale	73	47	46	166	Pass
36.	Mr. A. D. Aware	64	46	49	159	Pass
37.	Mr. A. H. Ghatale	61	41	44	146	Pass
38.	Mr. A. R. Khan	68	45	45	158	Pass

39.	Mr. A. S. Telgote	69	46	43	158	Pass
40.	Mr. A. V. Raut	54	42	47	143	Pass

Certificate course in Vermiculture (COP) /Student Enrollment (2017-18)

Sr.	Name	Theory 100	Practical 50	Project 50	Total 200	Result
1.	Ku. A. A. Gotmare	69	46	43	158	Pass
2.	Ku. A. A. Kulsum	54	42	47	143	Pass
3.	Ku. A. M. Lole	68	46	45	159	Pass
4.	Ku. A. S. Tathod	67	43	48	158	Pass
5.	Ku. A. V. Boche	71	44	46	161	Pass
6.	Ku. D. S. Undare	69	42	45	156	Pass
7.	Ku. H. G. Thorat	73	47	49	169	Pass
8.	Ku. H. Y. Khan	64	48	46	158	Pass
9.	Ku. K. A. Nathe	69	48	48	165	Pass
10.	Ku. K. K. Dole	73	45	45	163	Pass
11.	Ku. K. N. Khan	65	48	48	161	Pass
12.	Ku. K. R. Damdar	62	45	46	153	Pass
13.	Ku. K. S. Jungare	57	44	48	149	Pass
14.	Ku. M. K. Tale	65	44	47	156	Pass
15.	Ku. M. S. Nawalkar	76	43	45	164	Pass
16.	Ku. N. A. Talat	78	46	48	172	Pass
17.	Ku. N. P. Belurkar	71	47	45	163	Pass
18.	Ku. P. D. Datir	59	49	48	156	Pass
19.	Ku. P. D. Ingle	64	46	49	159	Pass
20.	Ku. P. D. Mankar	66	45	42	153	Pass
21.	Ku. P. G. Sonone	71	41	47	159	Pass
22.	Ku. P. H. Dharamle	64	42	48	154	Pass
23.	Ku. P. K. Ladhe	61	41	44	146	Pass
24.	Ku. P. N. Raghuvanshi	68	42	47	157	Pass
25.	Ku. P. P. Ingle	71	44	75	190	Pass
26.	Ku. P. P. Wankhade	61	45	42	148	Pass
27.	Ku. P. S. Wankhade	62	47	45	154	Pass
28.	Ku. P. V. Jungare	68	45	45	158	Pass
29.	Ku. Ps. Mhala	76	46	49	171	Pass
30.	Ku. R. A. Dod	58	48	47	153	Pass
31.	Ku. R. A. More	57	43	45	145	Pass
32.	Ku. R. B. Dhondekar	67	44	47	158	Pass
33.	Ku. R. N. Shelkar	56	43	46	145	Pass
34.	Ku. R. V. Shende	69	45	45	159	Pass
35.	Ku. R. V. Siraskar	78	42	48	168	Pass
36.	Mr. A. M. Nadeem	61	41	44	146	Pass
37.	Mr. G. H. Lone	73	47	46	166	Pass
38.	Mr. P. V. Ghanbahadur	64	47	48	159	Pass

39.	Mr. R., B. Diveakr	63	43	45	151	Pass
40.	Mr. V. V. Tayade	67	41	46	154	PASS

Certificate course in Vermiculture (COP)/ Student Enrollment (2018-19)

Sr.	Name	Theory 100	Practical 50	Project 50	Total 200	Result
1.	Ku. A. A. Gotmare	64	42	48	154	Pass
2.	Ku. A. A. Ingle	73	47	46	166	Pass
3.	Ku. A. A. Rajankar	64	47	48	159	Pass
4.	Ku. A. A. Shafique	63	43	45	151	Pass
5.	Ku. A. B. Boche	67	41	46	154	Pass
6.	Ku. A. G. Bharsakale	56	43	46	145	Pass
7.	Ku. A. M. Lole	69	45	45	159	Pass
8.	Ku. A. P. Dewar	61	45	42	148	Pass
9.	Ku. A. P. Gawande	68	42	47	157	Pass
10.	Ku. A. S. Tathod	71	44	75	190	Pass
11.	Ku. A. S. Wankhade	61	41	44	146	Pass
12.	Ku. A. V. Rahane	78	42	48	168	Pass
13.	Ku. A.R. Mangale	71	41	47	159	Pass
14.	Ku. B. A. Nemade	73	47	49	169	Pass
15.	Ku. D. P. Bondre	61	41	44	146	Pass
16.	Ku. D. S. Kamble	73	45	45	163	Pass
17.	Ku. D. S. Shende	64	48	46	158	Pass
18.	Ku. D. S. Under	69	48	48	165	Pass
19.	Ku. G. A. Janwanjal	65	44	47	156	Pass
20.	Ku. G. P. Hagone	65	48	48	161	Pass
21.	Ku. H. A. Khan	57	44	48	149	Pass
22.	Ku. H. G. Thorat	62	45	46	153	Pass
23.	Ku. K. K. Yeul	76	43	45	164	Pass
24.	Ku. M. R. Raibole	78	46	48	172	Pass
25.	Ku. N. A. Aware	71	47	45	163	Pass
26.	Ku. N. A. Dongre	59	49	48	156	Pass
27.	Ku. P. P. Kedar	64	46	49	159	Pass
28.	Ku. P. S. Bhande	66	45	42	153	Pass
29.	Ku. R. A Patil	62	47	45	154	Pass
30.	Ku. R. A. Gawande	68	45	45	158	Pass
31.	Ku. R. D. Bondre	76	46	49	171	Pass
32.	Ku. R. R. Gawande	58	48	47	153	Pass
33.	Ku. V. M. Tade	57	43	45	145	Pass
34.	Mr. A. V. Solanke	71	44	46	161	Pass
35.	Mr. B. A. Tade	67	43	48	158	Pass
36.	Mr. D. R. Jawanjal	69	42	45	156	Pass
37.	Mr. G. G. Parage	69	46	43	158	Pass
38.	Mr. H. G. Mendhe	54	42	47	143	Pass

39.	Mr. K. U. Wankhade	67	44	47	158	Pass
40.	Mr. R. R. Kalbande	68	46	45	159	Pass



VERMICOMPOSTING

SPECIMEN CERTIFICATE

SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S

**SHRI SHIVAJI ARTS, COMMERCE &
SCIENCE COLLEGE, AKOT**
DIST. AKOLA (M.S.)

Certificate

This is to certify that ,

Mr./Miss.....

has successfully completed the Certificate/Diploma/Advanced Diploma

Course in.....

run by the Department Ofunder the

UGC sponsored Career Oriented Programme in the academic Year.....

He/She Has secured the grade.....

With Best Compliments

Date :
Place : Akot

Course Coordinator
Prof.

Dr. A. L. Kulat
Principal

AVERAGE RESULT ANALYSIS

Year	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Student enrolled	40	40	40	40	40	40	40
Qualified	40	40	40	40	40	40	40
%	100	100	100	100	100	100	100

Coordinator

Dr. V. B. Bhagat
Associate Professor & Head
Department of Zoology
Shri. Shivaji Art's, Commerce & Science
College, Akot