



Samaj Prabodhan Sanstha's  
**CHANDRABHAMA MAHAVIDYALAYA, KARJAT**  
(Affiliated to Savitribai Phule Pune University, Pune ID: PU/AN/AS/150/2018)  
At/Post. Karjat Tal. Karjat, Dist. Ahmednagar (MH) – 414402  
<https://chandrabhamamahavidyalayakarjat.com/> Email – cmkarjat@gmail.com  
Unipune ID: CAAA020760 AISHE CODE – C-59888

## CRITERIA 1.3.1

### 1.3.1 A List of Courses with cross cutting issues as per syllabus



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Internal Quality Assurance Cell  
Chandrabhama Mahavidyalaya, Karjat  
Tal. Karjat, Dist. A' Nagar (MH)

*Principals*  
**PRINCIPAL**  
CHANDRABHAMA MAHAVIDYALAYA  
Karjat, Tal. Karjat, Dist. A' Nagar (M.H.)



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Sr. No.	Programme Name	Course code	Name of Course	Addressed issue (Professional Ethics, Gender, Human Values, Environment and Sustainability)
1.	All UG Programmes		Democracy, Election and Governance	Professional Ethics
2	B. A. English	FE VI	Functional English	Professional Ethics
3	B. A. Marathi	1024	Adhunik Marathi Sahitya Vyavharik va Upyojit Marathi	Professional Ethics
4	B. A. Marathi	G2	Adhunik Marathi Sahitya Aani Upyojit Marathi	Professional Ethics
5	B. A. Marathi	S3	Sahityavichar	Professional Ethics
6	B.A. Hindi	2098	Hindi Bhasha ka Vikas (S1)	Professional Ethics
7	B.A. Hindi	2099	Upnyas, Natak Tatha Madhyugin Hindi Kavya (S2)	Professional Ethics
8	B.A. Hindi	3097	Hindi Samanya (G- 3)	Professional Ethics
9	B.A. Hindi	3098	Hindi Sahita Ka Itihas (S3)	Professional Ethics
10	B.A. Hindi	3099	Kavyashastra (S4)	Professional Ethics

			Project Work	
11	B. A. Economics	S3	International Economics	Professional Ethics
12	B. A. Political Science	G-I	FYBA: Indian Government and	Professional Ethics

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			Politics	
13	B. A. Political Science	S-III	TYBA : Public Administration	Professional Ethics

14	B. Sc. Physics	PHY 212	Electronics I	Professional Ethics
15	B. Sc. Physics	PH-335	Computational Physics	Professional Ethics
16	B. Sc. Physics	PH-336 B	Elements of MaterialsScience	Professional Ethics
17	B. Sc. Physics	PH-345	Electronics	Professional Ethics
18	B. Sc. Physics	PH-349	Laboratory Course III(Project)	Professional Ethics

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Tal.Karjat, Dist.A'Nagar (MH)

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19	B. Sc. Botany	BO- 112	FYBSc Paper II Industrial Botany I(Sem- I)	Professional Ethics
20	B. Sc. Botany	BO- 112	FYBSc Paper II Industrial Botany II (Sem- II)	Professional Ethics
21	B. Sc. Botany	BO- 113	Practical Paper III(Sem- I & II)	Professional Ethics
22	B. Sc. Botany	BO-221	SYBSc Paper I Plant Anatomy and Embryology(Sem II)	Professional Ethics
23	B. Sc. Botany	BO-222	SYBSc Paper II Plant Biotechnology(Sem II)	Professional Ethics
24	B. Sc. Botany	BO-223	Practical based on theory courses (Paper I and Paper II)	Professional Ethics
25	B. Sc. Botany	BO-335	TYBSc Paper V Horticulture and Floriculture(Sem III)	Professional Ethics
103.	B. Sc. Botany	BO-336	TYBSc Paper VI Computational Botany(Sem III)	Professional Ethics
26	B. Sc. Botany	BO-341	TYBSc Paper I Plant Physiology and Biochemistry(Sem IV)	Professional Ethics
27	B. Sc. Botany	BO-345	TYBSc Paper V Plant Biotechnology (Sem IV)	Professional Ethics
28	B. Sc. Botany	BO-346	TYBSc Paper VI Plant Breeding and Seed Technology (Sem IV)	Professional Ethics
29	B. Sc. Botany	BO-347	Practical I	Professional Ethics
30	B. Sc. Botany	BO-348	Practical II	Professional Ethics
31	B. Sc. Botany	BO-349	Practical III	Professional Ethics

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Tal. Karjat, Dist. A' Nagar (MH)

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Unipune ID: CAAA020760 AISHE CODE – C-59888

32	B. Sc. Mathematics	MT 101	Algebra and Geometry	Professional Ethics
33	B. Sc. Mathematics	MT 102	Calculus and Differentials equations	Professional Ethics
34	B. Sc. Mathematics	MT 103	Mathematics Practical's	Professional Ethics
35	B. Sc. Mathematics	MT 212(A)	Discrete Mathematics	Professional Ethics
36	B. Sc. Mathematics	MT212(B)	Laplace Transform and Fourier Series	Professional Ethics
37	B. Sc. Mathematics	MT213	Practical based on MT211, MT212	Professional Ethics
38	B. Sc. Mathematics	MT222(B)	Numerical methods and it's applications	Professional Ethics
39	B. Sc. Mathematics	MT223	Practical based on MT221, MT222	Professional Ethics
40	B. Sc. Mathematics	MT 333	Problem Course on MT331 and MT 332	Professional Ethics
41	B. Sc. Mathematics	MT 335	Ordinary Differential Equations	Professional Ethics
42	B. Sc. Mathematics	MT 336	Problem Course on MT334 and MT 334	Professional Ethics
43	B. Sc. Mathematics	MT 337:A	Operations Research	Professional Ethics
44	B. Sc. Mathematics	MT 337:B	Dynamical System	Professional Ethics
45	B. Sc. Mathematics	MT 337: C	C- Programming I	Professional Ethics
46	B. Sc. Mathematics	MT 337:D.	Lattice Theory	Professional Ethics
47	B. Sc. Mathematics	MT 337: E	Financial Mathematics	Professional Ethics
48	B. Sc. Mathematics	MT 337:F	Number Theory	Professional Ethics

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49	All PG Programmes		Introduction to Constitution	Gender
50	All UG Programmes		Human rights- I	Gender
51	B.A. Hindi	2099	Upnyas ,Natak Tatha Madhyugin Hindi Kavya( S2)	Gender
52	B. A. Geography	Gg-320(S-3)	TYBA: Population andSettlement Geography	Gender
53	B. A. Political Science	G-I	FYBA: Indian Government and Politics	Gender
54	B. A. Political Science	G-II	SYBA: Political Theoryand Concepts	Gender
55	B. A. Political Science	S- I	SYBA :Western PoliticalThought	Gender
56	B. A. Political Science	S-II	SYBA : Political	Gender

57	B. A. Political Science	G-III	TYBA : Political Ideologies	Gender
58	B. A. Political Science	S-III	TYBA : Public Administration	Gender
59	B. A. Political Science	S-IV	TYBA : InternationalPolitics	Gender
60	All UG		Democracy, Election andGovernance	Human Values
61	B. A. Marathi	1024	Adhunik Marathi SahityaVyavharik va Upyojit Marathi	Human Values

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**Cordinator**

Internal Quality Assurance Cell  
Chandrabhama Mahavidyalaya, Karjat,  
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*Principal*

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62	B. A. Marathi	G2	Adhunik Marathi SahityaAani Upyojit Marathi	Human Values
63	B. A. Marathi	S1	Marathi Sahityatil VividhaSahitya Prakar	Human Values
64	B. A. Marathi	S2	Arwachin Marathi Wangmayacha Itihas(1818 to 1960)	Human Values
65	B. A. Marathi	G3	Adhunik Marathi SahityaAani Vyavharik Va Upyojit Marathi	Human Values
66	B. A. Marathi	S4	Bhashavidnyan Varnanatmak Aani Itihasik	Human Values

67	B.A. Hindi	2097	kahani kavya evm lekhan(G2)	Human Values
68	B.A. Hindi	2098	Hindi Bhasha ka Vikas (S1 )	Human Values
69	B.A. Hindi	2099	Upnyas ,Natak Tatha Madhyugin Hindi Kavya ( S2)	Human Values
70	B.A. Hindi	3097	Hindi Samanya (G- 3 )	Human Values
71	B.A. Hindi	3098	Hindi Sahita Ka Itihas(S3)	Human Values
72	B.A. Hindi	3099	Kavyashastra ( S4)	Human Values
73	M. A. Hindi	30591	Aadhunik Kavya-1	Human Values
74	B. A. History	G1	Chh.Shivaji and HisTimes	Human Values
75	B. A. History	G2	Modern India (1857-1950)	Human Values
76	B. A. History	G3	History of The World in20 Century (1914-1992)	Human Values
77.	B. A. Geography	Gg-310(G-3)	TYBA: Regional Geography of India ORHuman Geography	Human Values

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**Cordinator**

Internal Quality Assurance Cell  
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Tal.Karjat, Dist.A'Nagar (MH)

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**PRINCIPAL**

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78	B. A. Political Science	G-I	FYBA: Indian Government and Politics	Human Values
79	B. A. Political Science	G-II	SYBA: Political Theory and Concepts	Human Values
80	B. A. Political Science	S- I	SYBA : Western Political Thought	Human Values
81	B. A. Political Science	S-II	SYBA : Political Sociology	Human Values
82	B. A. Political Science	G-III	TYBA : Political Ideologies	Human Values
83	B. A. Political Science	S-III	TYBA : Public Administration	Human Values
84	B. A. Political Science	S-IV	TYBA : International Politics	Human Values
85	B. Sc. Botany	BO-332	TYBSc Paper II Cell and Molecular Biology (Sem III)	Human Values
86	B. Sc. Botany	BO-333	TYBSc Paper III Genetics and Evolution (Sem III)	Human Values
87	ALL UG Programmes		EVS 231- Environment Awareness	Environment and Sustainability
88	ALL UG Programmes		Human rights- I	Environment and Sustainability

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Karjat. Tal. Karjat, Dist. A' Nagar (M.H.)





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89	B.A. Hindi	2099	Upnyas ,Natak Tatha Madhyugin Hindi Kavya ( S2)	Environment and Sustainability
90	B.A. Hindi	3097	Hindi Samanya (G– 3 )	Environment and Sustainability
91	B. A. History	G2	Modern India (1857-1950)	Environment and Sustainability
92	B. A. History	G3	History of The World in20 Century (1914-1992)	Environment and Sustainability
93	B. A. Geography	Gg-110 (G-1)	FYBA: Elements ofGeomorphology	Environment and Sustainability
94	B. A. Geography	Gg-210(G-2)	SYBA: Elements ofClimatology and Oceanography OR	Environment and Sustainability

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Karjat. Tal.Karjat, Dist.A'Nagar(M.H.)



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			Geography of Disaster Management	
95	B. A. Economics	G1	Indian Economy – Problems and Prospects	Environment and Sustainability
96	B. A. Political Science	G-I	FYBA: Indian Government and Politics	Environment and Sustainability
97	B. A. Political Science	G-II	SYBA: Political Theory and Concepts	Environment and Sustainability
98	B. A. Political Science	S- I	SYBA : Western Political Thought	Environment and Sustainability
99	B. A. Political Science	S-II	SYBA : Political Sociology	Environment and Sustainability
100	B. A. Political Science	G-III	TYBA : Political Ideologies	Environment and Sustainability
101	B. A. Political Science	S-III	TYBA : Public Administration	Environment and Sustainability
102	B. A. Political Science	S-IV	TYBA : International Politics	Environment and Sustainability
103.	B.Sc. Physics	PH-336 B	Elements of Materials Science	Environment and Sustainability
104	B.Sc. Physics	PH-349	Laboratory Course III (Project)	Environment and Sustainability
105	B. Sc. Chemistry	C-3	FYBSc: Chemistry Paper III (Practical Course)	Environment and Sustainability
106	B. Sc. Chemistry	CH- 223	SYBSc: Chemistry	Environment and

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Tal. Karjat, Dist. A' Nagar (MH)

*B. N. S.*

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			Practical	Sustainability
107	B. Sc. Chemistry	CH-347:	TYBSc: Physical Chemistry Practical	Environment and Sustainability
108	B. Sc. Chemistry	CH-348:	TYBSc: Inorganic Chemistry Practical	Environment and Sustainability
109	B. Sc. Chemistry	CH-349:	TYBSc: Organic Chemistry Practical	Environment and Sustainability

110	B. Sc. Botany	BO-111	FYBSc Paper I Plant Diversity (Sem- I)	Environment and Sustainability
111	B. Sc. Botany	BO- 111	FYBSc Paper I Plant Morphology and Anatomy(Sem-II)	Environment and Sustainability
112	B. Sc. Botany	BO-211	SYBSc Paper I Taxonomy of Angiosperms and Plant community (Sem I)	Environment and Sustainability
113	B. Sc. Botany	BO-212	SYBSc Paper II Plant Physiology (Sem I)	Environment and Sustainability
114	B. Sc. Botany	BO- 331	TYBSc Paper I Cryptogamic Botany(Sem III)	Environment and Sustainability
115	B. Sc. Botany	BO-334	TYBSc Paper IV Spermatophyta and Palaeobotany (Sem III)	Environment and Sustainability
116	B. Sc. Botany	BO-342	TYBSc Paper II Plant Ecology and Biodiversity(Sem IV)	Environment and Sustainability
117	B. Sc. Botany	BO-343	TYBSc Paper III Plant Pathology (Sem IV)	Environment and Sustainability

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**Cordinator**

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*Chandrabhama*

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118	B. Sc. Botany	BO-344	TYBSc Paper IV Medicinal and Economic Botany(Sem IV)	Environment and Sustainability
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### Syllabus

Programme Name: B.A. English

Course Code: 35334

Course Name: SEC-2A and SEC-2D Mastering Life Skills and Life Values

Class: TY BA Course Code: 35334/ 36334  
Skill Enhancement Course (SEC 2-C & SEC 2-D) (w. e. f. 2021- 2022)  
Title of the Paper: Mastering Life Skills and Life Values  
[Two Credit Course for Each Sem- Sem-V & VI -2x15=30 Hours for Each Sem]

#### Objectives:

1. To equip the students with the social skills
2. To train the students interpersonal skills
3. To build self-confidence and communicate effectively
4. To Encourage the students to think critically
5. To learn stress management and positive thinking
6. To enhance leadership qualities
7. To aware the students about universal human values
8. To develop overall personality of the students

#### Suggestions to Teachers:

1. It is a learner-centric course.
2. The course aims at developing skills among the students.
3. Learning can be facilitated through interactive and informal guiding sessions.
4. Participation and up-gradation of the students' performance needs to be encouraged.
5. Practical Exercises, Activity monitoring, Projects, Seminars, Presentations, Group Discussions are some of the activities that the teachers are expected to encourage.
6. Relevant and innovative ideas of both the students and the teachers are always appreciable for a successful completion of this course
7. The concerned faculty/teachers have to maintain the record of the students as credits to the students need to be given on the basis of preserved records.

Nature of Evaluation- Internal (College) 25 Marks and Semester End University Examination- 25 Marks

**SEMESTER-V (SEC 2-C) Course Content: Life Skills**  
Course Code: 35334

#### Unit-I

1. Meaning and Nature of Life Skills
2. Importance of Life Skills
3. Problem Solving and Decision-making skill

#### Unit-II

4. Critical and Creative Thinking Skill
5. Interpersonal skills: Understanding and Cooperating with Others
6. Management of Stress and Emotions

**SEMESTER-VI (SEC 2-D) Life Values**  
Course Code: 35334/36334

#### Unit-I

1. Meaning and Nature of Values
2. Importance of Human Values
3. Moral Values
4. Ethical Values

#### Unit-II

5. Professional Values
6. Aesthetic Values
7. Psychological Values
8. Self-Awareness and Self-Management

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**Crosscutting issue: Environment and Sustainability**

**Reference Book**

Programme Name: M. Sc. Botany Course Name:  
Advanced Plant Ecology

Course Code: BOUT 242

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**Cordinator**

Internal Quality Assurance C.  
Chandrabhama Mahavidyalaya, Ka.  
Tal.Karjat, Dist.A'Nagar (M.H.)

*[Signature]*

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11

## Environmental Challenges and Sustainable Development

### GENESIS OF ENVIRONMENTAL CHALLENGES

Alterations in both, physico-chemical (abiotic) and biological (biotic) components of the biosphere by mankind resulted in environmental degradation world over. Major environmental problems (issues, challenges), are infact the manifestations of the degraded environments at global level. These problems include air and water pollution, loss of biodiversity and wildlife, carbon emissions, ozone layer depletion, global warming and climate change.

The genesis of the abovesaid environmental problems can easily be traced to the life styles and developmental processes during the industrial revolution, first followed in the North, and then moving to third world countries, including India. Such a close relationship between environment and development could be realised globally. Not only scientists, but every section of the society, rich or poor, having become convinced with this relationship, are now engaged to find the solutions of these environmental problems. Unfortunately

there are differences in sharing the responsibilities of apparent cause(s) of these problems, and in following the approaches to manage the relationship between environment and development in a way that standard of life (development) of every man on the planet improves with minimum damage to the environment. Such a philosophy of coordinated process is also referred to as sustainable development. In this chapter an attempt is made to analyse the subject of environment and development with special reference to India and other developing countries of the world.

Today, the conservation, protection, and improvement of human environment (degraded by human itself) are major issues all over the world. Land, water, air, plants, animals and other forms of life (microorganisms) are to be conserved/managed. Urbanisation, population pressure, over-exploitation of resources, disruption of natural ecological balance and loss of biodiversity are the chief concerns of environmental degradation. Today, we can no longer live in isolation; this is age of holism; there is one world. If environment of India is degraded, the global environment is to be affected.

(BC-4)

*Chasade*

**Cordinator**

Internal Quality Assurance Cell  
Chandrabhama Mahavidyalaya, Karjat  
Tal.Karjat, Dist.A'Nagar (MH)

*[Signature]*

**PRINCIPAL**

**CHANDRABHAMA MAHAVIDYALAYA**  
Karjat, Tal.Karjat, Dist.A'Nagar(M.H.)



Samaj Prabodhan Sanstha's

**CHANDRABHAMA MAHAVIDYALAYA, KARJAT**

(Affiliated to Savitribai Phule Pune University, Pune ID: PU/AN/AS/150/2018)

At/Post. Karjat Tal. Karjat, Dist. Ahmednagar (MH) – 414402

<https://chandrabhamamahavidyalayakarjat.com/> Email – cmkarjat@gmail.com

Unipune ID: CAAA020760 AISHE CODE – C-59888

**Arts & Science curriculum is evolved over the time according to integrate crosscutting issues relevant to Gender, Environment and Sustainability, Human Values, etc. Our institute gives immense importance to these issues in the following way –**

#### **1. Gender:**

Lectures are conducted on topics like PCPNDT Act, Dowry death in Arts. Woman's day is

Celebrated every year in the college for woman empowerment by arranging various activities and health check-up camps. Institution has established VISHAKHA-woman redressal cell. Various lectures are organized on issues related to gender equality, dignity of women in society, sexual harassment, women health awareness.

#### **2. Environment and Sustainability:**

Science is a holistic science in which mainly herb-mineral preparations are being used. Hence the

Study of herbs, impact of environment on the cultivation is important. Science department regularly arrange plantation programs and celebrates world environment day through which students are educated to take Care of their mother earth.

#### **3. Human values:**

Human values are essential attributes in the Arts professional. Social code of conduct is incorporated in the UG & PG program of Arts under Economic, Political Science, History. Medical ethics are taught under the topics of Qualities of Vaidya. Students actively participate in various activities like Blood donation camp, organ donation awareness program and medical camps for lower socio- economical population/ group.

#### **4. Health Determinants:**

Being a Health & science institution, health determinants takes centre place in the UG curriculum. Lectures and camps are conducted on emerging demographic issues of emerging diseases like COVID-19, etc.

#### **5. Right to Health:**

Every person has right to have healthy life. In order to provide healthy life, various programs are

Conducted by our institute. Topics like vaccination program, child health care programs, AIDS/HIV

**Cordinator**

Internal Quality Assurance Cell  
Chandrabhama Mahavidyalaya, Karjat  
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Control program, importance of current national program, Garbing and Suita Paricharya are included in our curriculum. Economic dept. is established in our teaching Health for lifestyle disorder management.

#### 6. Professional Ethics:

Professional ethics are age old trends in our society so these ethics are well explained in Science

Medical ethics are discussed in the Sutra Sthana of Charaka, Sushruta & Ashtanga Hridaya Samhita.

These medical professional ethics are in the syllabus of 1st year & 3rd year B.SC COMPUTER SCIENCE program.

*Corade*

**Cordinator**

Internal Quality Assurance Co  
ROAC COORDINATOR  
Chandrabhama Mahavidyalaya, Karj  
Tal.Karjat, Dist.A'Nagar (Mh)

**PRINCIPAL**

**CHANDRABHAMA MAHAVIDYALAYA**  
Karjat. Tal.Karjat, Dist.A'Nagar(M.H.)