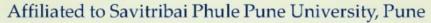


Pune District Education Association's Annasaheb Magar Mahavidyalaya

Hadapsar, Pune-411028





Self Study Report: 2024 (4th Cycle)



Criterion - 1
Curricular Aspects

Key Indicator- 1.3 Curriculum Enrichment

Metric: 1.3.2(QnM)

Percentage of students undertaking project work/field work/ internships



Submitted to





SYBCA Environmental Project 2022- 2023

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PDEA's

Annasaheb Magar Mahavidyalaya Hadapsar Pune - 411028



SPPU Environmental Awareness Syllabus

Syllabus for

Ability Enhancement Compulsory Course (AECC - Environment Studies)(2 credit) for under graduate

(For All Faculties - Second Year - Semester III)

It is as per UGC guidelines and framing -

Unit 1: Introduction to environmental studies

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable development.

(2 lectures)

Unit 2: Ecosystems

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems:
- a) Forest ecosystem
- b) Grassland ecosystem
- c) Desert ecosystem
- d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(8 lectures)

Unit 3: Natural Resources: Renewable and Non-renewable Resources

- Land resources and landuse change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water: Use and over-exploitation of surface and ground water, floods, droughts conflicts over water (international & inter-state).
- Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(10 lectures)

Unit 4: Biodiversity and Conservation

- Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services : Ecological, economic, social, ethical, aesthetic and Informational value.

(10 lectures)

References:

- 1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
- 2. Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ. of California Press.







- 3. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.
- 4. Gleick, P. H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
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- 8. McNeill, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.
- 9. Odum, E.P., Odum, H.T. & Andrews, J. 1971. Fundamentals of Ecology. Philadelphia: Saunders.
- 10. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. Environmental and Pollution Science. Academic Press.
- 11. Rao, M.N. & Datta, A.K. 1987. Waste Water Treatment. Oxford and IBH Publishing Co. Pvt. Ltd.
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- 13. Rosencranz, A., Divan, S., & Noble, M.L. 2001. Environmental law and policy in India, Tripathi 1992.
- 14. Sengupta, R. 2003. Ecology and economics: An approach to sustainable development. OUP.
- 15. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi.
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- 17. Thapar, V. 1998. Land of the Tiger: A Natural History of the Indian Subcontinent.
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- 19. Wilson, E. O. 2006. The Creation: An appeal to save life on earth. New York: Norton.
- 20. World Commission on Environment and Development. 1987. Our Common Future. Oxford University Press.







Syllabus for

Ability Enhancement Compulsory Course (AECC – Environment Studies)(2 credit) for under graduate (For All Faculties - Second Year - Semester IV)

It is as per UGC guidelines and framing -

Unit 5: Environmental Pollution

- Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management : Control measures of urban and industrial waste.
- · Pollution case studies.

(10 lectures)

Unit 6: Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act;

Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).

• Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

(9 lectures)

Unit 7: Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management : floods, earthquake, cyclones and landslides.
- Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi).

(6 lectures)

Unit 8: Field work

• Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.







- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

(Equal to 5 lectures)

References:

- 1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
- 2. Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
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- $20. World\ Commission\ on\ Environment\ and\ Development.\ 1987.\ Our\ Common\ Future.\ Oxford\ University\ Press.$







ENVIRONMENTAL AWARENESS PROJECT

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This is to certify that this **Environmental Awareness project** has been made by **SONAWANE SAKSHI SANJAY** of class **S.Y.B.CA.** on the topic **Global warming** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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Ms. Siddheshawar V. G.
Asst. Co-ordinator, Mathematics Dept.

completed it successfully...

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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ANUSHKA SUNDARRAO of class S.Y.B.CA. on the topic Pollution from 12/04/2023 to

13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. ,Department of Botany and **Ms.**

Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-

411028 and have been completed it successfully...

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Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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Asst. Co-ordinator, Mathematics Dept.

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

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Asst. Co-ordinator, Mathematics Dept.

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Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-

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Asst. Co-ordinator, Mathematics Dept.

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G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

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Prof. Dr. Shirurkar D.D.
Co-ordinator and Head,
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Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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This is to certify that this **Environmental Awareness project** has been made by **PETIKAR DISHA SANJAY** of class **S.Y.B.CA.** on the topic **Types of pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

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This is to certify that this **Environmental Awareness project** has been made by **BHOSALE PRADEEP POPAT** of class **S.Y.B.CA.** on the topic **Cleanliness is wealthness** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune—

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This is to certify that this **Environmental Awareness project** has been made by **BELHEKAR VEDIKA SURAJ** of class **S.Y.B.CA.** on the topic **Water pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. Department of Botany and **Ms.**

YASHVARDHAN VIJAY of class S.Y.B.CA. on the topic Marine Pollution from 12/04/2023 to

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Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany tin Ghorpad





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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **PATHAN ZAHEER RAJU** of class **S.Y.B.CA.** on the topic **Soil Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.**, Department of Botany and **Ms. Siddheshawar V. G.**Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G.
Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **PANCHAL AKASH SATISH** of class **S.Y.B.CA.** on the topic **Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.**, Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this Environmental Awareness project has been made by SHIVAPPANOR

PADMAJA LAXMAN of class S.Y.B.CA. on the topic De-forestation from 12/04/2023 to

13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. Department of Botany and **Ms.**

Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-

411028 and have been completed it successfully...

Ms. Siddheshawar V. G.

Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **PATIL DNYANESHWAR SAMBHAJI** of class **S.Y.B.CA.** on the topic **Space pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G.
Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **SUTAR VAISHNAVI BALAJI** of class **S.Y.B.CA.** on the topic **VaishnaviSutar_SoilPollut** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this Environmental Awareness project has been made by PAWAR ADITYA PAWAR VASANT of class S.Y.B.CA. on the topic Space pollution from 12/04/2023 to 13/05/2023, under the guidance of our Professor Dr. Shirurkar D.D. ,Department of Botany and Ms. Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune—

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411028 and have been completed it successfully...

Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

18 Jinh







ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **SATHE VAISHNAVI SHARAD** of class **S.Y.B.CA.** on the topic **Space pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.**, Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this Environmental Awareness project has been made by CHANDGUDE

AKANKSHA BAPU of class S.Y.B.CA. on the topic Climate Change from 12/04/2023 to

13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. ,Department of Botany and **Ms.**

Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **NHAVALE YOJANA SUNIL** of class **S.Y.B.CA.** on the topic **Water Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **BHISE KOMAL BALASAHEB** of class **S.Y.B.CA.** on the topic **Marine Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **JOSHI RAHUL SANTOSH** of class **S.Y.B.CA.** on the topic **Renewable Energy** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **FARTADE SUSHMA KALIDAS** of class **S.Y.B.CA.** on the topic **Water pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **JADHAV PRATHEMESH BRAMHADEV** of class **S.Y.B.CA.** on the topic **Climate change** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **WAGADARE PRATIK ARUN** of class **S.Y.B.CA.** on the topic **Space Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **MULANI YUSUF RAFIQ** of class **S.Y.B.CA.** on the topic **Climate change** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Asst. Co-ordinator, Mathematics Dept.

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **KAMBLE PAYAL VIJAY** of class **S.Y.B.CA.** on the topic **Global warming** from 12/04/2023 to 13/05/2023, under the

guidance of our Professor Dr. Shirurkar D.D., Department of Botany and Ms. Siddheshawar V. G.

Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-411028 and have been

completed it successfully...

Ms. Siddheshawar V. G.
Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany Dr. Nitin Ghorpade

Principal





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This is to certify that this **Environmental Awareness project** has been made by **MERGU VARUN SHRINIWAS** of class **S.Y.B.CA.** on the topic **Water pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **KHAN IMRAN** of class **S.Y.B.CA.** on the topic **Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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This is to certify that this **Environmental Awareness project** has been made by **BARDE VISHAL VINOD** of class **S.Y.B.CA.** on the topic **Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.**, Department of Botany and **Ms. Siddheshawar V. G.**Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

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Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany







ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **SHINDE VISHAL SAKHARAM** of class **S.Y.B.CA.** on the topic **Water pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **UNDRE ADITYA DATTATRAYA** of class **S.Y.B.CA.** on the topic **Soil pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.**, Department of Botany and **Ms.**

Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **YADAV JAYESH DAYANAND** of class **S.Y.B.CA.** on the topic **Waste Management** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Asst. Co-ordinator, Mathematics Dept.

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **KAD DIVYA SANTOSH** of class **S.Y.B.CA.** on the topic **Ecosystem** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.**, Department of Botany and **Ms. Siddheshawar V. G.**Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **CHAVAN PRATIK MAHESH** of class **S.Y.B.CA.** on the topic **Global Warming** from 12/04/2023 to 13/05/2023, under

the guidance of our Professor Dr. Shirurkar D.D. ,Department of Botany and Ms. Siddheshawar V.

G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

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Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany







ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **KAZI AYASHA FEROJ** of class **S.Y.B.CA.** on the topic **Air pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.**, Department of Botany and **Ms. Siddheshawar V. G.**Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **SHELKE ADITYA RAJENDRA** of class **S.Y.B.CA.** on the topic **ecosystem** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.**Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

Ms. Siddheshawar V. G.

completed it successfully...

Asst. Co-ordinator, Mathematics Dept.

18 Juntin

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany







ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this Environmental Awareness project has been made by TELANG KALIDAS

NAGNATH of class S.Y.B.CA. on the topic Renewable Energy Sourc from 12/04/2023 to

13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. ,Department of Botany and **Ms.**

Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-

411028 and have been completed it successfully...

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Asst. Co-ordinator, Mathematics Dept.

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **JAGTAP PRERNA SATISH** of class **S.Y.B.CA.** on the topic **Ecosystem and it's types** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

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ENVIRONMENTAL AWARENESS PROJECT

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **SULKAR GAURAV VISHNU** of class **S.Y.B.CA.** on the topic **Water pollution** from 12/04/2023 to 13/05/2023, under

the guidance of our Professor Dr. Shirurkar D.D., Department of Botany and Ms. Siddheshawar V.

G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

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Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurka

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany







ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **SAVALE AARTI BALIRAM** of class **S.Y.B.CA.** on the topic **Types of pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **HONKARPE YASH GANESH** of class **S.Y.B.CA.** on the topic **Cleanliness is wealthness** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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ENVIRONMENTAL AWARENESS PROJECT

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ENVIRONMENTAL AWARENESS PROJECT

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This is to certify that this **Environmental Awareness project** has been made by **SARKAR VISHAL TAPAN** of class **S.Y.B.CA.** on the topic **Marine Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

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ENVIRONMENTAL AWARENESS PROJECT

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany







ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **BORATE ANIKET GORAKH** of class **S.Y.B.CA.** on the topic **Soil Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **TAPSHALKAR SAIASHISH SANJAY** of class **S.Y.B.CA.** on the topic **Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Asst. Co-ordinator, Mathematics Dept.

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ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **GAWALE MILIND PREMNATH** of class **S.Y.B.CA.** on the topic **De-forestation** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.**, Department of Botany and **Ms. Siddheshawar V.**

G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

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CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **AGNIHOTRI VYANKATESH MAHESHRAO** of class **S.Y.B.CA.** on the topic **Space pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

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Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





ENVIRONMENTAL AWARENESS PROJECT

CERTIFICATE

This is to certify that this **Environmental Awareness project** has been made by **MOZE SANSKRUTI**

KAMLAKAR of class S.Y.B.CA. on the topic VaishnaviSutar_SoilPollut from 12/04/2023 to

13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. Department of Botany and **Ms.**

Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-

411028 and have been completed it successfully...

Ms. Siddheshawar V. G.

Asst. Co-ordinator, Mathematics Dept.

18 Jinh

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany







ENVIRONMENTAL AWARENESS PROJECT

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This is to certify that this **Environmental Awareness project** has been made by **PAWAR SIDDHESH RAVINDRA** of class **S.Y.B.CA.** on the topic **Space pollution** from 12/04/2023 to 13/05/2023, under

the guidance of our Professor Dr. Shirurkar D.D., Department of Botany and Ms. Siddheshawar V.

G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been

completed it successfully...

Ms. Siddheshawar V. G.
Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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This is to certify that this **Environmental Awareness project** has been made by **KSHIRSAGAR SHRUTI SANJAY** of class **S.Y.B.CA.** on the topic **Space pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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CERTIFICATE

This is to certify that this Environmental Awareness project has been made by GAIKWAD PRASAD LAXMAN of class S.Y.B.CA. on the topic Climate Change from 12/04/2023 to

13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D**. Department of Botany and **Ms.**

Siddheshawar V. G. Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune-

411028 and have been completed it successfully...

Ms. Siddheshawar V. G.
Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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This is to certify that this **Environmental Awareness project** has been made by **SHINDE AJAY MACCHINDRA** of class **S.Y.B.CA.** on the topic **Water Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany





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This is to certify that this **Environmental Awareness project** has been made by **RANDIVE PRATHAMESH RAJENDRA** of class **S.Y.B.CA.** on the topic **Marine Pollution** from 12/04/2023 to 13/05/2023, under the guidance of our **Professor Dr. Shirurkar D.D.** ,Department of Botany and **Ms. Siddheshawar V. G.** Mathematics Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune–411028 and have been completed it successfully...

Ms. Siddheshawar V. G. Asst. Co-ordinator, Mathematics Dept.

Prof. Dr. Shirurkar D.D. Co-ordinator and Head, Department of Botany