



**Shramjivi Shikshan Prasarak Mandal's**

**Adarsh Mahavidyalaya, Omerga  
Dist. Osmanabad**

**Department of Microbiology**

**Report of**

**One day workshop on**

**“Advanced Techniques for Basic Sciences”**

**16<sup>th</sup> February 2018**

**In association with Walchand College, Solapur**

**Introduction:**

Basic sciences provide the essential means to meet crucial challenges such as universal access to food, energy, and health coverage and communication technologies. Science must play an important role in the pursuit of sustainable development, especially in the following categories: Energy use: The key technologies of sustainable development include new energy and propulsion technologies that will help to reduce emissions of climate-damaging greenhouse gases. Simply to stabilize atmospheric greenhouse-gas concentrations at twice their preindustrial levels, we will have to reduce current global greenhouse emissions by over 50%.

Biotechnology is expected to bring important advances in medical diagnosis and therapy, in solving food problems, in energy saving, in environmentally compatible industrial and agricultural production, and in specially targeted environmental protection projects. Genetically altered microorganisms can break down a wide range of pollutants by being used, for example, in bio- filters and wastewater-treatment facilities, and in the clean- up of polluted sites. Genetically modified organisms can also alleviate environmental burdens by reducing the need for pesticides, fertilizers, and medications.

Sustainability, as a strategic aim, involves optimizing the interactions between nature, society, and the economy, in accordance with ecological criteria. Political leaders and scientists alike face the challenge of recognizing interrelationships and interactions between ecological, economic, and social factors and taking account of these factors when seeking solution strategies. To meet this challenge, decision-makers require interdisciplinary approaches and strategies that cut across political lines. People who have a positive attitude towards science and who can understand the needs and problems of the society and who can solve the problems in a systematic way are greatly looked upon. This accelerates the importance of science in society and day to day life of human beings, science is considered as the most important and compulsory subject in the school curriculum. For this we have to look into different values of science.

**Objectives:**

- Strengthening the presence and the visibility of women
- Basic sciences as sources of international dialogue and peace
- Science as a global public good
- Innovation and economic development
- Education and human development
- Meeting global challenges

This is a unique opportunity to convince all students that actions taken will be more effective through a basic understanding of nature for the common good. It is a crucial moment of mobilization to convince economic and political leaders and every citizen of our dependence on basic science to ensure the planet's balanced, sustainable and inclusive development.

**Shedule Of The Workshop:**

**Adarsh Mahavidyalaya, Omerga  
Dist. Osmanabad**

**One day workshop in association with Walchand College, Solapur on  
“Advanced Techniques for Basic Sciences”  
on 16<sup>th</sup> February 2018**

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**Registration: -** 9.30 am to 10.30 am

**Inauguration: 10.30 am to 12.30 pm**

**President:** Dr. D. P. Garud, Principal

**Chief Guest:** Dr. Patkar N. B. (Biotechnology Department) Walchand College, Solapur

**Enlightening of lamp**

**Welcome felicitation**

President Dr. Garud D. P. by Dr. Mali S. B.

Chief Guest

Dr. Patkar N. B. (Biotechnology Department) by Dr. Kulkarni S. G.

Prof. Sinoorkar V. P. (Bioinformatics Department) by Dr. Dulange S. M.

Dr. Mrs. Injal A. S. (Genetics Department) by Mrs. Gund Madam

Dr. Tayyab Ali (Nano Technology Department) by Dr. Ramshetti R. S.

**Introductory speech:** - Dr. Menkudale D. V.

**Chief Guest Speech:-** Dr. Patkar N. B. (Biotechnology Department) Walchand College,  
Solapur

**Presidential Speech:** Dr. Garud D. P. Principal

**Vote of Thanks:** - Dr. Ramshetti Rajshekar

**Session 1: (12.30pm to 1.30 pm)**

Speaker: Dr. Patkar N. B.

Topic: Biotechnology for sustainable development

Prof. Sinoorkar V. P.

Topic: Importance and applications of Bioinformatics

**Lunch:130 pm to 2.30pm**

**Session 2: (2.30pm to 3.30 pm)**

Speaker: Dr. Mrs. Injal A. S

Topic: Importance and applications of Genetics

Speaker: Dr. Tayyab Ali

Topic: Importance and applications of nanotechnology

**Session 3: practicals( 3.30pm to 5.30 pm)**

**Valedictory function: 5.30 pm**

**Outcome of the workshop**

The workshop was highly informative sound and comprehensive for the students, teachers, research scholars and academicians more than 100 participants got benefited by sound knowledge of Advanced Techniques for Basic Sciences. In this workshop, a particular skill

set, application, or technique is taught. The outcome is increased knowledge, competence, or confidence in a particular area or set of techniques.







