



Functional Linkage for
Collaborative Research and Student Exchange

Between

**R. C. Patel Educational Trust's
R. C. Patel Arts, Commerce and Science College, Shirpur**

And

**School of Environmental & Earth Sciences
KBC North Maharashtra University, Jalgaon**



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Karvand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

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President

Hon. Bhupeshbhai Patel

Principal

Dr. D. R. Patil

Date: 20/08/2019

To,
The Director,
School of Environmental & Earth Sciences,
KBC North Maharashtra University, Jalgaon

I am writing to highly recommend **Department of Geography, R. C. Patel Arts, Commerce and Science College, Shirpur** for the research collaboration opportunity with **School of Environmental & Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.**

Many Researchers working in The Department of Geography have a profound understanding of Environmental & Earth Sciences, as evidenced by their multiple publications. Their innovative approach and ability to think critically have significantly contributed to our on-going research projects.

Please feel free to contact me if you require any further information. I am confident that Department of Geography will be an invaluable asset to your research collaboration.

Sincerely,



Dr. D. R. Patil
PRINCIPAL


R. C. Patel Educational Trust's
R. C. Patel Arts, Commerce and Science College
Shirpur, Dist.-Dhule (M.S.) 425405

Name of Institute/Industry	:-	School of Environmental & Earth Sciences KBC North Maharashtra University, Jalgaon
Year of Signing Linkage/ MoU	:-	2018
Duration of Linkage/MoU	:-	05 Years

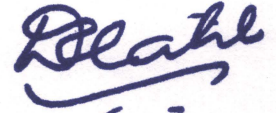
**List of Activities carried out under Linkage with School of Environmental & Earth
Sciences KBC North Maharashtra University, Jalgaon**

Sr. No.	Particulars	Page No.
1.	Seminar on 'Climatology and Climate Change'	04-05
2.	Collaborative Research Publication	06
3.	Collaborative Research Publication	07
4.	Collaborative Research Publication	08
5.	Chief guest on 'Geography Day Celebration Program'	09-12

Authorized signatures:


Prof. S. R. Thorat
(Director)
Director
School of Environmental & Earth Sciences
Kavayitri Bahinabai Chaudhari
North Maharashtra University
Jalgaon - 382001





PRINCIPAL

R. C. Patel Educational Trust's
R. C. Patel Arts, Commerce and Science College
Shirpur, Dist.-Dhule (M.S.) 425405

Activity- 01

R. C. Patel Arts, Commerce and Science College, Shirpur

Report of Seminar on Climatology and Climate Change

Department of Geography

One day Seminar on Climatology and Climate Change was organised by department of Geography, R. C. Patel Arts, Commerce and Science College, Shirpur on 16th September 2022. This seminar was organised with joint venture of School of Environment and Earth Science, KBC NMU, Jalgaon. For this seminar Dr. Kailas P. Dandge was the chief guest of this seminar. He is working as s Assistant Professor of Environmental Science at Department of Environmental Science, School of Environmental and Earth Sciences, KBC-NMU, Jalgaon. He addressed to seminar. He introduced the concept of climatology and climate change to students.

He said climatology was the study of climate, which were the average weather conditions in a region over a long period, typically 30 years or more. Scientists in this field examine patterns and trends in temperature, humidity, wind, and precipitation to understand the Earth's various climates. They used data from weather stations, satellites, and climate models to analyze how climates had changed in the past and how they might change in the future.

Climate changed refers to significant and lasting changes in the average weather patterns over decades or longer. It was primarily caused by human activities, especially the burning of fossil fuels like coal, oil, and natural gas, which release greenhouse gases (GHGs) such as carbon dioxide (CO₂) into the atmosphere. These gases trap heat from the sun, leading to a warming effect known as global warming. Other factors contributing to climate change include deforestation and industrial processes.

The impacts of climate change were widespread and severe. They include rising global temperatures, melting polar ice caps, and glaciers, sea-level rise, and more frequent and intense weather events like hurricanes, droughts, and heat waves. These changes affect ecosystems, biodiversity, and human societies, leading to challenges such as food and water shortages, health risks, and economic disruptions.

Lastly he added, efforts to combat climate change involve reducing GHG emissions through renewable energy sources like wind and solar, improving energy efficiency, and protecting forests. International agreements like the Paris Agreement aim to unite countries in limiting global temperature rise and mitigating the adverse effects of climate change.

The president of this programme was Dr. A. M. Patil, Vice-Principal of College. He gave various examples of climate change worldwide. It showed the various effects of climate change on human civilization. There were various faculty members were present for the programme along with students.

Venue of Programme: Seminar Hall, R. C. Patel ACS College, Shirpur

Date of Programme: 16-September-2022

Time of Programme: 11.00 AM

Number of beneficiary: 54 Students



Dr. D. R. Patil

Dr. D. R. Patil
PRINCIPAL

R. C. Patel Educational Trust's
R. C. Patel Arts, Commerce and Science College
Shirpur, Dist.-Dhule (M.S.) 425405

A Geographical Analysis of Organic Fertilizers Application in Shirpur Tehsil of Maharashtra (MS), India

Yogesh J Mahajan *

Bharat D Patil**

Sanjaykumar N Patil***

Abstract

Dhule district of Maharashtra state comprises four tehsils viz. Dhule, Shirpur, Sakri, and Shindkheda. The soil quality and productivity are being affected badly in the southern parts of Shirpur tehsil. It is necessary to evaluate the adverse impacts of chemical fertilizers in the Shirpur tehsil. The present study is organized in order to find out the farmers attitude towards organic fertilizer application in the Shirpur. 598 farmers from 12 villages of four tehsils were questioned for their perspective towards organic and chemical fertilizer application in the farm. The research outcome reveals different attitudes for organic fertilizer application and benefits in different groups i.e. education levels of farmers, farm size, and villages. The large farm size farmers and educated farmers are more in numbers compared to small size farmers and illiterate farmers. Therefore an attempt has been made to find out the attitude of farmers towards utilization of organic fertilizer in the farms for sustainable farming.

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Keywords:

Agriculture;
Fertilizers;
Organic;
Productivity;
Soil;
farm size etc.

Author correspondence:

First Author

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Post Box # 80, Umavi Nagar, Jalgaon (Maharashtra) India 425001.

1. Introduction

The soil quality and productivity are being badly affected by the overconsumption of chemical fertilizers in the southern part of Shirpur tehsil. The soil and environment protection are one of the basic principles of the organic farming and it advocates the natural ways of improvement in the environment. In the organic farming the synthetic fertilizers, herbicides, and medicines are hardly applied [12]. The concept of organic agriculture builds on the efficient use of locally available resources, and the use of technologies like soil fertility management, the closing of nutrient cycles, control of pests and diseases by means of natural antagonists.

From the mixed farming point of view, it is necessary to investigate the opportunities and limitations of stockless organic farming with regard to both agro-ecological, economic stability, and sustainability of farming systems [2]. The mixed farming concept opens up new ways of achieving sustainable development [11]. The share of corn, sunflower, and rape in crop mix the investment in precision farming is paid off after six years under Hungarian conditions [4]. The implementation of precision farming promotes the rational application of chemicals but requires capital investment. According to K. Takács-György, the reduction of

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** Associate Professor, R. C. Patel Arts, Commerce and Sciences college, Shirpur, Dist-Dhule, (MH) India



Change Detection of Land-use and Land-cover of Shirpur Tehsil: A Spatio-Temporal Analysis

Yogesh Mahajan¹, Bharat Patil², Sanjay Patil³

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R.C. Patel Arts, Commerce and College, Shirpur, Maharashtra, India

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Abstract: The general land use of region is control by various factors i.e. physical, cultural, social, environmental etc. economic activities, agricultural practices and their development depend on land use and intensity of land use. The temporal changes in land use pattern of Shirpur tehsil have studied for the period of 1991 to 2011 to find out the trends of variation in general land use and to identify the reasons for the changes. Spatial variation in land use changes studied on circle level. Last three decades land satellite images have been used. These satellite images further processed and analyzed by GIS software. Total population density of Shirpur Tehsil was 405 in 1991 that increase up to 507 in 2011. The total area of Shirpur tehsil is 83307.61 hectares out of that 1000.72 hectares area under built up in 1991 that increases by 1152.22 hectares

13. A Geographical Analysis of Irrigation Potential and Sustainability in Shirpur Tehsil of Maharashtra (MS), India

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Bharat D. Patil

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Sanjay N. Patil

School of Environmental and Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra

Geography Day Celebration

Activity- 02

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Report of Programme on Geography Day

School of Environmental & Earth Sciences

Programme on Geography Day was organised by School of Environmental & Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 14th January 2020. For this programme Dr. Pralhad Y. Magare was the chief guest. He is working as Associate Professor of Geography at R. C. Patel Arts, Commerce and Science College, Shirpur. He addressed in the programme. He briefed that Geography Day celebrated the diverse landscapes, cultures, and phenomena that shape our world. It served as a reminder of the importance of understanding our planet's physical features, climates, and human societies. From majestic mountains to sprawling deserts, from bustling cities to remote islands, geography encompasses the study of Earth's surface and how humans interact with it.

On this day, people around the globe reflected on the interconnectedness of environments and societies, highlighting the significance of sustainable practices and environmental stewardship. Geography Day also promoted geographic literacy, encouraging education about maps, natural resources, climate change, and global inequalities.

Further he told that through geography, we gained insights into how geographic factors influence history, economics, politics, and daily life. It underscored the need for cooperation and understanding across borders, fostering a sense of global citizenship. Whether studying landscapes, cultures, or urbanization, Geography Day encourages us to appreciate the world's diversity and strive for a more sustainable and equitable future.

Venue of Programme: Seminar Hall, School of Environmental and Earth Sciences, KBC-NMU, Jalgaon

Date of Programme: 14-January-2020

Time of Programme: 10.30 AM





॥ अंतरी पेटवू ज्ञानज्योत ॥

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव
Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES

KBCNMU/28-Envnt.Sc./Geography Day/02_/2020

Date: 02-01-2020

To,

Dr. Pralhad Yadav Magare

Head,
Department of Geography,
R. C. Patel Arts, Commerce & Science College, Shirpur

Subject: Invitation as a chief guest for 'Geography Day Celebration' program.

Dear Sir,

We have great pleasure to invite you as a chief guest for the inaugural function of 'Geography Day Celebration' program organized by School of Environmental and Earth Sciences (SEES) being celebrated on **14th January 2020 at 10.30 A.M.** in the Seminar Hall of our School at the KBCNMU campus.

We are sure that you will accept our invitation as a chief guest of an inaugural function of 'Geography Day Celebration' program and spare your valuable time for guiding our students.

Warm Regards.

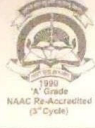
Yours Sincerely,

Dr. Y. J. Mahajan
(Co-Ordinator)

Prof. S. R. Thorat
(Director)

Director

School of Environmental & Earth Sciences
Kavayitri Bahinabai Chaudhari
North Maharashtra University
Jalgaon - 425001



॥ अंतरी पेटवू ज्ञानज्योत ॥

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Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES

KBCNMU/28-Envt.Sc./Geography Day /08/2020

Date: 14-01-2020

To,

Dr. Pralhad Yadav Magare
R.C. Patel Arts, Commerce, & Sciences
College, Shirpur (Dhule)

Subject: Your presence as 'Chief Guest' for 'Celebration of Geography Day' program.

Dear Sir,

We are very much thankful to you for accepting our invitation as a 'Chief Guest' of an inaugural ceremony of the 'Geography Day -2020' program organized by our School on 14th January-2020. You have spared your valuable time and enriched the participants of the program. We appreciate the valuable guidance offered by you to our students in organizing such activities.

Warm Regards.

Yours Sincerely,

Dr. Y. J. Mahajan

Prof. S. R. Thorat
(Director)

Director

School of Environmental & Earth Sciences
Kavayitri Bahinabai Chaudhari
North Maharashtra University
Jalgaon-360001

