



Peer Reviewed Referred  
and UGC Listed Journal  
(Journal No. 40776)



ISSN 2277 - 5730 AN INTERNATIONAL  
MULTIDISCIPLINARY QUARTERLY RESEARCH  
JOURNAL

# AJANTA

Volume-VIII, Issue-I  
January - March - 2019  
English Part - II / Marathi

IMPACT FACTOR /  
INDEXING 2018 - 5.5  
[www.sjifactor.com](http://www.sjifactor.com)

**Ajanta Prakashan**

ISSN 2277 - 5730  
AN INTERNATIONAL MULTIDISCIPLINARY  
QUARTERLY RESEARCH JOURNAL

# AJANTA

Volume - VIII

Issue - I

January - March - 2019

English Part - II / Marathi

Peer Reviewed Refereed  
and UGC Listed Journal

Journal No. 40776



ज्ञान-विज्ञान विमुक्तये

IMPACT FACTOR / INDEXING

2018 - 5.5

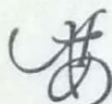
[www.sjifactor.com](http://www.sjifactor.com)

❖ EDITOR ❖

Asst. Prof. Vinay Shankarrao Hatole

M.Sc (Maths), M.B.A. (Mktg.), M.B.A. (H.R.),  
M.Drama (Acting), M.Drama (Prod. & Dir.), M.Ed.

❖ PUBLISHED BY ❖



**Ajanta Prakashan**

Aurangabad. (M.S.)

The information and views expressed and the research content published in this journal, the sole responsibility lies entirely with the author(s) and does not reflect the official opinion of the Editorial Board, Advisory Committee and the Editor in Chief of the Journal "AJANTA". Owner, printer & publisher Vinay S. Hatole has printed this journal at Ajanta Computer and Printers, Jaisingpura, University Gate, Aurangabad, also Published the same at Aurangabad.

**Printed by**

Ajanta Computer, Near University Gate, Jaisingpura, Aurangabad. (M.S.)

**Published by :**

Ajanta Prakashan, Near University Gate, Jaisingpura, Aurangabad. (M.S.)

Cell No. : 9579260877, 9822620877, Ph.No. : (0240) 2400877

E-mail : ajanta1977@gmail.com, www.ajantaprakashan.com

**AJANTA - ISSN 2277 - 5730 - Impact Factor - 5.5 (www.sjifactor.com)**

# EDITORIAL BOARD

## Professor Kaiser Haq

Dept. of English, University of Dhaka,  
Dhaka 1000, Bangladesh.

## Roderick McCulloch

University of the Sunshine Coast,  
Locked Bag 4, Maroochydore DC,  
Queensland, 4558 Australia.

## Dr. Ashaf Fetooh Eata

College of Art's and Science  
Salmau Bin Adbul Aziz University. KAS

## Dr. Nicholas Loannides

Senior Lecturer & Cisco Networking Academy Instructor,  
Faculty of Computing, North Campus,  
London Metropolitan University, 166-220 Holloway Road,  
London, N7 8DB, UK.

## Muhammad Mezbah-ul-Islam

Ph.D. (NEHU, India) Assot. Prof. Dept. of  
Information Science and Library Management  
University of Dhaka, Dhaka - 1000, Bangladesh.

## Dr. Meenu Maheshwari

Assit. Prof. & Former Head Dept.  
of Commerce & Management  
University of Kota, Kota.

## Dr. S. Sampath

Prof. of Statistics University of Madras  
Chennai 600005.

## Dr. D. H. Malini Srinivasa Rao

M.B.A., Ph.D., FDP (IIMA)  
Assit. Prof. Dept. of Management  
Pondicherry University  
Karaikal - 609605.

## Dr. S. K. Omanwar

Professor and Head, Physics,  
Sat Gadge Baba Amravati  
University, Amravati.

## Dr. Rana Pratap Singh

Professor & Dean, School for Environmental  
Sciences, Dr. Babasaheb Bhimrao Ambedkar  
University Raebareilly Road, Lucknow.

## Dr. Shekhar Gungurwar

Hindi Dept. Vasantrao Naik  
Mahavidyalaya Vasarni, Nanded.

## Memon Sohail Md Yusuf

Dept. of Commerce, Nirzwa College  
of Technology, Nizwa Oman.

## Dr. S. Karunanidhi

Professor & Head,  
Dept. of Psychology,  
University of Madras.

## Prof. Joyanta Borbora

Head Dept. of Sociology,  
University, Dibrugarh.

## Dr. Walmik Sarwade

HOD Dept. of Commerce  
Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad.

## Dr. Manoj Dixit

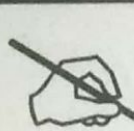
Professor and Head,  
Department of Public Administration Director,  
Institute of Tourism Studies,  
Lucknow University, Lucknow.

## Prof. P. T. Srinivasan

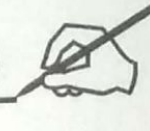
Professor and Head,  
Dept. of Management Studies,  
University of Madras, Chennai.

## Dr. P. A. Koli

Professor & Head (Retd.),  
Department of Economics,  
Shivaji University, Kolhapur.



# EDITORIAL BOARD

**Dr. P. Vitthal**

School of Language and Literature  
Marathi Dept. Swami Ramanand  
Teerth Marathwada University, Nanded.

**Dr. Jagdish R. Baheti**

H.O.D. S. N. J. B. College of Pharmacy,  
Meminagar, A/P. Tal Chandwad, Dist. Nashik.

**Dr. Sadique Razaque**

Univ. Department of Psychology,  
Vinoba Bhave University,  
Hazaribagh, Jharkhand.

**Prof. Ram Nandan Singh**

Dept. of Buddhist Studies University of Jammu.

**Prin. Dr. R. R. Patil**

K. N. Bhise Arts, Commerce and Vinayakrao  
Patil Science College, Vidyanagar, Bhosare (Kurduwadi)  
Dist- Solapur

**Dr. S. V. Londhe**

Department of English, K. N. Bhise Arts,  
Commerce and Vinayakrao Patil Science College,  
Vidyanagar, Bhosare (Kurduwadi) Dist- Solapur

**Dr. V. B. Nagare**

Department Of Geography, K. N. Bhise Arts,  
Commerce and Vinayakrao Patil Science College,  
Vidyanagar, Bhosare (Kurduwadi) Dist- Solapur



PUBLISHED BY



**Ajanta Prakashan**

Aurangabad. (M.S.)



## ❧ CONTENTS ENGLISH PART - II ❧

| S. No. | Title & Author                                                                                                                                                                                                                                                          | Page No. |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1      | Banking Reforms and their Impact on Indian Banking Sector<br><b>Miss. Shridevi Naganath Chandane</b>                                                                                                                                                                    | 1-7      |
| 2      | Gender Identity and Queer Space in R. Raja Rao's 'The Boyfriend'<br><b>Mr. Tamboli Javed G.</b>                                                                                                                                                                         | 8-11     |
| 3      | Antimicrobial Activities of Curry Leaves ( <i>Murraya Koenigii</i> ) and Amla ( <i>Emblica Officinalis</i> ) Fruit Extract Against Selected Pathogenic Bacteria and <i>Candida Albicans</i><br><b>Chavan Shital</b><br><b>Karad Dilip</b><br><b>Deshmukh Nitin</b>      | 12-19    |
| 4      | Isolation and Screening of Oil Degrading Microorganisms Obtained from Ground Nut Oil Effluent (GOME) from Solapur Region, Maharashtra<br><b>Ms. Nikita. V. Potabatti</b><br><b>Mr. Mahesh G. Tala</b><br><b>Ms. Sayali S. Sonar</b><br><b>Mr. Parashram. N. Dombale</b> | 20-25    |
| 5      | Reforms in Higher Education : Challenges<br><b>Mrs. Paranjape S. M.</b>                                                                                                                                                                                                 | 26-28    |
| 6      | Pinjar: A Sensitivity towards Gender Biased Violence in Indian Partition<br><b>Manasi G. Swami</b>                                                                                                                                                                      | 29-31    |
| 7      | Preparation of Natural Colorant from Bacterial Pigment of <i>Abutilon Indicum</i> Leaves and Study their Application<br><b>Chetan H. Godale</b><br><b>Yogesh L. Bhandari</b>                                                                                            | 32-38    |
| 8      | Identification of Agriculturer Crucial Problem A Case Studies of Madha Tahsil Solapur District Maharashtra<br><b>Prin. Dr. R.R. Patil</b><br><b>Dr. Nagare V. B.</b><br><b>Mr. Ranjeet Patil</b>                                                                        | 39-      |
| 9      | Identification of Agriculturer Crucial Problem A Case Studies of Madha Tahsil Solapur District Maharashtra<br><b>Prof. Pandurang B. Akhade</b>                                                                                                                          | 45-49    |
| 10     | Feminine Sensibility in Kamala Das' Poetry<br><b>Prof. Patil R. V.</b>                                                                                                                                                                                                  | 50-54    |

## ❧ CONTENTS ENGLISH PART - II ❧

| S. No. | Title & Author                                                                                                                                       | Page No. |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 11     | Global Perspective in Higher Education<br><b>Prof. Dr. Kokate Netaji Bharat</b>                                                                      | 55-59    |
| 12     | Representation of Women from the Perspective of Indian Women Novelists<br><b>Mr. Palke R. B.</b>                                                     | 60-64    |
| 13     | Nectar in a Sieve: A Feministic Study<br><b>Dr. Anupama Prakash Pol</b>                                                                              | 65-67    |
| 14     | Implied Conversational Strategies in Chetan Bhagat's the Three Mistakes of My Life<br><b>Dr. Sagar Sadashiv Waghmare</b><br><b>Dr. H. K. Awatade</b> | 68-74    |
| 15     | Evaluation of Computer Assessed Learning Module for the Topographical Map Interpretation Skill<br><b>Dr. Mahammad Mulani</b><br><b>Sandip Shinde</b> | 75-79    |
| 16     | Current Practice of Industrial Waste Management & Health Consequences of Poor Industrial Waste Disposal<br><b>Ms. V. S. Shinde</b>                   | 80-86    |
| 17     | Green Marketing in India<br><b>Smt. Shashwati Sunil Nirbhavane</b>                                                                                   | 87-92    |
| 18     | Development of Soil Physical Characters Analysis Kit.<br><b>Dr. (Mrs.) S.P. Jadhav</b><br><b>A. V. Khanderkar</b>                                    | 93-101   |
| 19     | Use of Myth in Girish Karnad's Naga Mandala<br><b>Mr. Kolhe Pradip Gunderao</b>                                                                      | 102-106  |
| 20     | Water Management in Rural Economy<br><b>Vijaya H. Gaikwad</b>                                                                                        | 107-109  |
| 21     | Water Resource Management of Western Part of Maharashtra, India<br><b>Mr. Patil Ranjeet Raosaheb</b>                                                 | 110-116  |
| 22     | Issues in Green Banking in India<br><b>Dr. B. H. Damji</b>                                                                                           | 117-120  |

## 15. Evaluation of Computer Assessed Learning Module for the Topographical Map Interpretation Skill

**Dr. Mahammad Mulani**

Department of Geography, Arts, Science and Commerce College, Indapur, Dist. Pune.

**Sandip Shinde**

Department of Geography, Arts, Science and Commerce College, Indapur, Dist. Pune.

---

### Abstract

Teaching and learning is one of the processes of education system in all over the world. Various teaching and learning methods are implemented in education system like lecture method, discussion method, seminar method, tutorial method etc. by teachers, professors and persons who is working in education and research fields. ICT (Information and Communication Technology) have been using in teaching-learning process since two to three decades. Computer and various software are used in teaching to provide information and knowledge effectively for students. James Kulik (1994) used research technique called meta-analysis to aggregate the findings from more than 500 individuals research studies of computer-based instruction. Computer-assisted Learning software seems to be a promising option for undergraduates, as it not only provides them in-depth knowledge to visualize live experiments on a computer screen but also helps them to self-assess their acquired knowledge through a series of multiple choice questions (Govindaraja C, et al, 2011). In the present study, Computer-assisted Learning Module is used for the geography subject. We found that Computer Assisted Learning Module is effective method which increases the skills of Topographical map interpretation.

**Keywords:** Teaching, learning, Computer Assisted Learning Module, Topographical Map.

### 1. Introduction

Computer-assisted Learning software seems to be a promising option for undergraduates, as it not only provides them in-depth knowledge to visualize live experiments on a computer screen but also helps them to self-assess their acquired knowledge through a series of multiple choice questions (Govindaraja C, et al, 2011). Geography is description and distributional study

of the earth. In modern time, geography means not only the study the physical and human components but also to study the interrelationship of physical and manmade factors with scientific manner. We can study the physical and manmade factor easily with the help of topographical maps. Map is soul of geography because 90% geography is studied with the help of maps. Map is the important tool to study the distribution of various factors like relief, drainage pattern, soil, minerals, population etc. It is also used in decision making. Today, we can study and analyzed the topographical maps easily in short period with the help of Geographical Information System (GIS). Interpretation and reading of topographical maps are important skills in geography. In the present research study, researcher issued computer assisted learning module to check the effectiveness in interpretation of topographical map.

## **2. Hypothesis**

### **1. Alternative Hypothesis**

Computer Assisted Learning Module will increase the interpretation skills of Topographical map.

### **2. Null Hypothesis**

Computer Assisted Learning Module will not increase the interpretation skills of Topographical map.

### **3. Objectives**

1. To find out the achievement level about topographical map interpretation skill of the student.
2. To make Computer Assisted Learning Module to increase interpretation skills of the topographical map.
3. To check the effectiveness of Computer Assisted Learning Module in interpretation skill while reading topographical map.

### **4. Methodology**

Computer Assisted Learning Module is framed for Geography students of FYBSc Class for the subject interpretation of topographical map. Research methodology is a way to systematically solve the above research problem.

#### **1. Population**

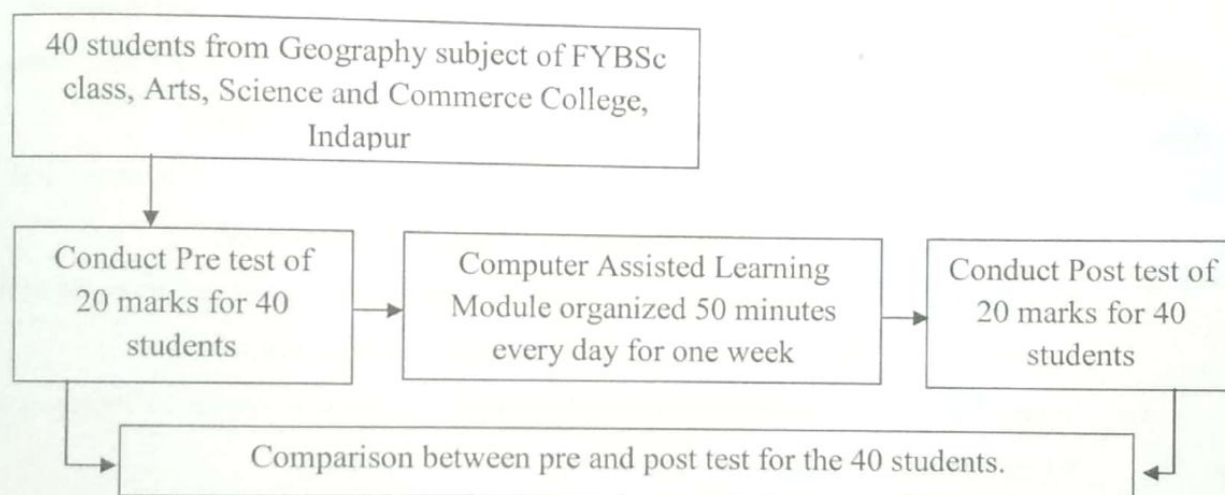
Students who are studied in Savitribai Phule Pune University, Pune are selected as a population for the present study.

## 2. Sample

For the present study, 40 students from Geography subject at FYBSC class Arts, Science and Commerce College, Indapur selected as samples by purposive sampling method.

3. Qualitative and quantitative data of research is collected by different tools like observations, interview, questionnaire, psychological tests etc. Achievement test is one of the psychological tests, which is selected in present study. Achievement test was produced to check the level of the students for topographical map reading skill.
4. Statistical tools are selected in the present study like mean, standard deviation, correlation and student 't' test to analyze the data.

## 5. Research Procedure



## 6. Result and Analysis

Following table is showing quantitative data which is collected from the pre and post tests.

Table no. 1 : Statistical information for 't' test

| Sr. No. | Particulars                       | Pre test | Post test |
|---------|-----------------------------------|----------|-----------|
| 1       | Number of Students                | 40       | 40        |
| 2       | Mean                              | 8.2      | 13.1      |
| 3       | Mean Difference                   | 4.9      |           |
| 4       | Standard Deviation                | 2.11     | 2.83      |
| 5       | Coefficient of Correlation        | 0.29     |           |
| 6       | Standard error of mean            | 0.33     | 0.44      |
| 7       | Standard error of mean difference | 0.22     |           |
| 8       | Level of Significance             | 0.01     |           |
| 9       | Degree of Freedom                 | 39       |           |

|    |                |       |
|----|----------------|-------|
| 10 | Calculated 't' | 22.47 |
| 11 | Tabulated 't'  | 2.74  |

**Note: Computed by researcher**

#### **'t' test analysis**

From the above table we observed that the calculated 't' value is greater than tabulated 't' value. So that the null hypothesis of the present study is that Computer Assisted Learning Module will not increase the interpretation skills of Topographical map is rejected and the alternative hypothesis that is Computer Assisted Learning Module will increase the interpretation skills of Topographical map is accepted.

#### **7. Conclusions**

Computer Assisted Learning Module was implemented for topographical map interpretation skills to 25 students from Geography subject at special level FYBSC class from Arts, Science and Commerce College, Indapur. The conclusions are following.

1. The mean of pre achievement test is 8.2 and the mean of post achievement test is 13.1. Means Topographical map interpretation skills are increased.
2. With the help of statistical test, it is observed that there is significant increase in the because of implementation of Computer Assisted Learning Module.
3. Researcher created Computer Assisted Learning Module is useful to increase the Topographical map interpretation skills.
4. Computer Assisted Learning Module and Achievement test are contribution by the researcher for new research in future.

#### **References**

1. Ahirrao D. Y. and Karanjkehele E. K. (2002): Practical Geography, Sudarshan Publication, Nashik.
2. Aloni, Archana (2006): Educational Technology and Management, Pimpalpure and Company Publisher, Nagpur.
3. Best, J. W. & Kahn, J. V. (2007): 'Research in Education' Prentice Hall in India Private Limited, New Delhi.
4. Date S. P. and Date S (1996): Geography, Narendra Publication, Pune.
5. Garrette, Henry. E. (2008): Statistics in Psychology and Education, Delhi: Surjeet Publications.

6. Govindaraja C, Prakash HJ, Annamalai C, Vedhavathy SS (2011): Computer-assisted learning: Perception and Knowledge Skills of Undergraduate Medical Students in a Malaysian Medical School, Natl Physiol Pharm Pharmacol, Volume 1 (2).
7. Jagtap H. N. (2006): New trend in Education, First Edition, Nitya Nutan Publication, Pune
8. Mulani M. S. (2007): 'Study The Effectiveness of Different Tools Used in Geography Subject For The Map Reading Skills' Unpublished M. Ed. Thesis, Savitribai Phule Pune University, Pune.
9. Mulani M. S. (2015): 'Study the Effectiveness of Computer Instructional Programme Used in Geography Subject for The Map Reading Skills', Unpublished M. Phil. Thesis, Savitribai Phule Pune University, Pune.



## **CONTACT FOR SUBSCRIPTION**

**AJANTA ISO 9001: 2008 QMS/ISBN/ISSN**

**Vinay S. Hatole**

**Jaisingpura, Near University Gate, Aurangabad (M.S) 431 004,**

**Cell : 9579260877, 9822620877 Ph: 0240 - 2400877**

**E-mail : [ajanta1977@gmail.com](mailto:ajanta1977@gmail.com) Website : [www.ajantaprakashan.com](http://www.ajantaprakashan.com)**