



The Berar General Education Society's  
**Shri Radhakisan Laxminarayan Toshniwal  
College of Science, Akola (M.S.)  
(Shri R.L.T. College of Science)**



Recognized by Government of Maharashtra  
Affiliated to Sant Gadge Baba Amravati University, Amravati  
Re-accredited 'A' by NAAC, Bangalore With CGPA-3.12



**4<sup>th</sup> Cycle of  
NAAC ASSESSMENT AND ACCREDITATION**

**CRITERION VII  
INSTITUTIONAL VALUES AND BEST PRACTICES**

**Key Indicator – 7.3  
Institutional Distinctiveness**

**7.3.1  
Promoting Innovations By  
Inspiring Young Minds**



The Berar General Education Society's

**SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL  
COLLEGE OF SCIENCE, AKOLA**

Affiliated to

**Sant Gadge Baba Amravati University, Amravati (Maharashtra)**

**NAAC Re-accredited with Grade "A"  
(CGPA 3.12-Third Cycle)  
Website: [www.rltsc.edu.in](http://www.rltsc.edu.in)**

**7.3.1  
Institutional Distinctiveness**

**Promoting Innovations  
By  
Inspiring Young Minds**



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.3.1 Institutional Distinctiveness

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<b>Promoting innovations by inspiring young minds</b>		
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*The Berar General Education Society's Akola*  
**SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL COLLEGE OF SCIENCE**

Civil Lines, Akola, 444001 (Maharashtra)

*Affiliated to Sant Gadge Baba Amravati University, Amravati*

*Re-accredited by NAAC with "A" Grade with CGPA 3.12*

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COLLEGE CODE: 210

Principal: Dr. Vijay D. Nanoty

phone: 0724-2415480, 9822724504

Ref. No: RLT/IQAC/C-VII /7.3.1

Date: 20/10/2022

### DECLARATION

This is to declare that, the information, data, photographic evidences, true copies of the supporting documents etc. furnished in this file of **7.3.1: Institutional Distinctiveness** entitled 'Promoting innovations by inspiring young minds' is checked and verified by IQAC, Shri R. L. T. College of Science, Akola and found to be correct.

  
(Dr. R. L. Rahatgaonkar)

IQAC Coordinator

Shri R L T College of Science, Akola



  
(Dr. V.D. Nanoty)

Principal & IQAC Chairman

Shri R L T College of Science, Akola

7.3.1: Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

7.3.1

Promoting innovations by inspiring young minds

Introduction

It is the need of the hour to organize various science-oriented activities to help students pursue their natural curiosity and creativity, quench their thirst for creativity and realize that science is all around us. Recognizing this, our college has planned and implemented many innovative and science-oriented activities for students and society to enlighten, generate curiosity, to support the scientific temperament and inspire young minds of students to contribute the understanding of world around us.

Vision

Our college has vision to become one of the best educational institutions in the country, aspiring for national recognition of excellence through teaching, learning, research and extension in the field of science and technology.

Mission

Mission of our institute is to dedicate our self to the cause of science education and propagation of scientific temper among the students and society. Every year college organizes various activities for propagation of scientific temper among the students and society and inspires young minds of students for innovative activities.

Objectives

- To develop innovative and creative ideas among the students.
- To develop basic research skills for all disciplines of science.
- To improve skill and knowledge of students through sharing experiences and information through lecture, demonstration and other group activities.
- To motivate students and society for scientific study behind the events and eliminate superstitions.
- To give platform to the students to published their innovative concepts.
- To propagate the science information to readers and through them, to all who are interested.
- To provide small scale industry business ideas.
- To inspire new generation of innovators and motivate them to apply for the patent.

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### Practice

In order to motivate the students with innate curiosity and inquisitive spirit to bring out the young scientists among them, Shri RLT College of Science has created an ecosystem for innovation by implementing various activities as follows:

#### ➤ **EUREKA- A Workshop for High School students and teachers:**

Workshop EUREKA (Emerging Universe of Research Education & Knowledge Ascent) was organized during session 2017-18 and 2018-19, for High School students and teachers.

This event was one of the performances of the Institution distinctive to its vision, priority and trust. Total 118 students and 30 teachers participated in the event.

Following were the objectives of this workshop.

- To develop interest in the field of science.
- To develop basic research skills for all disciplines of science.
- To improve skill and knowledge of students through sharing experiences and information through lecture, demonstration and other group activities.
- Developing basic research skills for all disciplines of science.
- To motivate students and teachers for scientific study behind the events.

**Technical Session:** The first informative speech was delivered by Prof. Dattaraj Vidyasagar on topic **Internet Awareness**. He explained how to create email account and security of email account. He also told how a particular website can be search easily on internet with the help of Domain name. Second lecture on topic **Superstitions & Science** was given by Dr. Sanjay Tidke, NSS District Coordinator, Akola. He explained how so-called Godmen, Maharaj, Bhondubabas misguides us. By giving various examples and actual demonstrations he explained basic scientific reasons behind the myths. Mr. S.R. Jaiswal, Member, Sky Observation Club (SOC) of college discussed with a view to enlighten, generate curiosity and inspire young minds of science students to contribute the understanding of world around us. Through his topic “**Know Our Universe**” he explained Sky and Space, Galaxies and our Solar System. Mr. Vishal Morey, Member of Damini Pathak, Akola Police Department focused on “**Cyber World & Security**”. He awared the students as well as the teachers about the cyber-crime which knowingly or unknowingly happens by teenagers and women in the society. Profound informative speeches were delivered by such a nice resource persons and step to create scientific awareness in participants.

**Laboratory visits:** Laboratory visits were arranged for school students and teachers. Animal Kingdom was explored in Zoology Laboratory. Participants visited to Wild Life Pencil Art Exhibition. They also observed ‘Birds of Akola’, a project completed by B.Sc. II students. Exhibition of Plants Herbarium was arranged in Department of Botany. Chemistry in everyday life was explained by giving demonstrations in Chemistry Laboratory. Students experienced and enjoyed Rainbow in the darkroom of Physics department. Students observed and handled computer in computer science laboratory. Various electronic instruments were shown in department of Electronics. In Microbiology Laboratory many participants took their first look in microscopes. Astronomy Gallery was one of the major attractions of workshop.

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**Science Aptitude Test:** was organized for school students. Sweta Sadansiv of English High School won first prize. Tanushri Pande of Sanmitra Public School, Spandini Joshi of Bharat Vidyalaya secured second prize. Atul Sinha of St. Anne’s High School, Murtizapur, Amey Joshi from Hindu Dnyanpeeth, Akola, Rahul Aawte from Smt Rukhmanibai Bochare Vidyalaya, Vivara and Aanchal Ingle from Swami Vivekananda Vidyalaya, Sirso, bagged third prize. Winners of Science Aptitude Test were felicitated.

Thus, the overall activities of workshop EUREKA (Emerging Universe of Research Education & Knowledge Ascent) facilitate a wonderful network by connecting Department of Education, science educators, school students and teachers together for spreading scientific temper among society.

<b>Photo gallery of Workshop</b> <b>EUREKA</b> <b>(Emerging Universe of Research Education &amp; Knowledge Ascent)</b>	
<b>Inaugural function</b>	
	
Welcome speech by Dr. Archana Sawarkar, Coordinator of Workshop	Introductory speech by Dr. R.S. Bhaskar, Coordinator of District Science Forum
	
Inaugural address by Mr. Dinesh Tarole, Deputy Education Officer, Z.P. Akola	Presidential speech by Principal Dr. Vijay Nanoty



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Vote of thanks by Mr. Madhav Munshi, Principal, New English High School, Akola



Anchoring by Prof. Shailesh Jaiswal

Technical sessions



Guidance by Prof. Dattaraj Vidyasagar on 'Internet Awareness'



Guidance with demonstration by Dr. Sanjay Tidke on 'Science behind Superstition'



Guidance by Mr. Vishal More on 'Cyber World & Security'



Guidance by Prof. Shailesh Jaiswal on 'Know Our Universe'

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**Laboratory Visits**



Visit to Zoology Laboratory



Introduction to Animal Kingdom



Visit to Chemistry Laboratory



Visit to Astronomy Gallery



Visit to Wild Life Pencil Art Exhibition organized by Dept. of Zoology



Visit to Botany Laboratory



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Visit to Microbiology Laboratory



Visit to Computer Science Laboratory

Valedictory Function



Feedback from participant (Student)



Feedback from participant (Teacher)



Winner Team of Science Aptitude Test



Presidential speech by Mr. Prakash Mukund, Education Officer, Z.P. Akola



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Participants from Akola district

### रालतो कॉलेज में बाल वैज्ञानिकों की यूरेका कार्यशाला

अकोला। 14 मार्च। लोक सेवा

श्री रालतो विज्ञान महाविद्यालय, अकोला जिला शिक्षा विभाग एवं विज्ञान मंच के संयुक्त तत्वावधान में यूरेका कार्यशाला का आयोजन शालेय विद्यार्थी एवं विज्ञान शिक्षकों के लिए किया गया. कार्यशाला में अकोला जिले की विविध शालाओं के 148 प्रशिक्षणार्थी सम्मिलित हुए.

प्राचार्य डॉ.विजय नानोटी की अध्यक्षता में आयोजित कार्यक्रम में बतौर उद्घाटक उप-शिक्षणाधिकारी दिनेश तरौले उपस्थित थे. प्रस्तावना अकोला जिला विज्ञान मंच के समन्वयक डॉ.रवीन्द्र भास्कर ने रखी. अध्यक्षीय भाषण में डॉ.नानोटी ने स्वयं एवं देश के उज्वल भविष्य के लिए वैज्ञानिक दृष्टिकोण अपनाने की बात कही.

कार्यशाला के पहले सत्र में दत्ताराज विद्यासागर ने इंटरनेट की आधारभूत जानकारी देते हुए इंटरनेट के उपयोग करते समय सावधानी के बारे में बताया. डॉ.संजय तिडके, रासेयो जिला समन्वयक ने अंधश्रद्धा, जादूटोना विषयक जानकारी देकर विज्ञान क्या है ? प्रयोग के आधार पर बताया. इस पश्चात् प्रशिक्षणार्थियों ने महाविद्यालय की विविध प्रयोगशालाओं का अवलोकन किया.



इस अवसर पर जीवशास्त्र विभाग द्वारा आयोजित वन्यजीव चित्रों के साथ ही वनस्पति हरबेरियम की प्रदर्शनी का लाभ विद्यार्थियों ने लिया.

दूसरे सत्र में प्रा.शैलेश जयस्वाल ने 'ओळख आपल्या विषयाची' विषय पर पावर पॉइंट प्रेजेंटेशन दिया. विशाल मोरे, दामिनी पयक सदस्य, पुलिस दल, अकोला ने साइबर जगत एवं सुरक्षा के बारे में जानकारी दी.

शिक्षणाधिकारी प्रकाश मुकुंद की अध्यक्षता में आयोजित समापन सत्र में उन्होंने विद्यार्थियों का मार्गदर्शन किया. कार्यशाला समन्वयक डॉ. अर्चना सावरकर ने कार्यक्रम का विस्तृत ब्यौरा दिया.

कार्यक्रम में युगंधरा आहाले एवं अनघा भराली ने अपने विचार व्यक्त किए. इस अवसर पर आयोजित विज्ञान क्षमता टेस्ट में इंग्लिश हाइस्कूल की श्वेता सदाशिव ने प्रथम

क्रमांक हासिल किया जबकि समिन्न पब्लिक स्कूल की तनुश्री पांडे, भारत विद्यालय, अकोला की स्पंदिनी जोशी एवं विवेकानंद इंग्लिश हाइस्कूल की तनुश्री सोलंके द्वितीय स्थान पर रही. अतुल सिन्हा, अमेय जोशी, विज्ञेश सांगले, निधि चौधरी, राहुल आवटे तथा आंचल इंगले तृतीय स्थान पर रहे.

कार्यशाला का संचालन डॉ.सुधीर कोहचाले एवं प्रा.शैलेश जयस्वाल ने तथा आभार प्रदर्शन माधव मुंशी, प्राचार्य न्यू इंग्लिश हाइस्कूल ने किया.

आयोजन की सफलता के लिए समन्वयक डॉ.अर्चना सावरकर, आयोजन समिति सदस्य डॉ. कोहचाले, डॉ. रश्मि जोशी, प्रा. घायालकर, डॉ. मालपाणी, प्रा. खेडकर, प्रा. जयस्वाल सहित शिक्षक, शिक्षकेतर कर्मचारी एवं विद्यार्थियों ने पत्रिभ्रम किया.

News

Web link- <https://www.rltsc.edu.in/2019/03/20/one-day-workshop-eureka/>

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ A Guidance Camp for NTSE (National Talent Search Examination Level II)- 2019:

Shri R.L.T. Science College Akola, Regional Education Authority Nagpur, Education Office Zilla Parishad Akola and Amravati Divisional Science Teachers Association jointly organized a guidance camp for NTSE- 2019 students from 22<sup>nd</sup> to 25<sup>th</sup> May 2019. In this camp, 56 students from Amravati Division, who qualified for second Level in National Talent Search Examination were participated. Senior college professors of Shri R.L.T. Science College guided students on various aspects of examination. Free test series was organized for these participants. It was an unforgettable and a matter of pride for Akola district. Education officer of Akola district gave words of appreciation to the principal and faculty members of Shri RLT College of Science for playing a major role in organization of this innovative camp for talented school students of Amravati division.

**Evidence of success:** Out of 29 students from Akola district who participated in the NTS Examination camp and appeared for examination, 16 students qualified for the National Talent Search Scholarship. It was an unforgettable and a matter of pride for Akola district.

### A Guidance Camp for NTSE (National Talent Search Examination Level II)- 2019



Welcome Speech by Principal  
Dr. V.D. Nanoty






Guidance by Dr. Ravindra Bhaskar,  
Coordinator of District Science Forum



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

2022/7/16 16



प्रादेशिक विद्या प्राधिकरण ( राज्य विज्ञान शिक्षण संस्था ) नागपुर  
शिक्षणाधिकारी ( माध्य ) जिल्हा परिषद, अकोला  
अमरावती विभागीय विज्ञान अध्यापक मंडळ  
रा.ल.तो. विज्ञान महाविद्यालय अकोला

**राष्ट्रीय प्रज्ञा शोध परीक्षा - विद्यार्थ्यांचे ( II लेव्हल ) मार्गदर्शन शिबीर - २०१९**

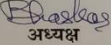
**प्रमाणपत्र**

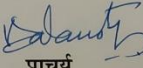
प्रमाणित करण्यात येते की, श्री/श्रीमती Dr. Sudhir Kanchale  
शाळा/महाविद्यालय R.L.T. Science College जि. Akola


यांनी प्रादेशिक विद्या प्राधिकरण ( राज्य विज्ञान शिक्षण संस्था ) नागपुर, शिक्षणाधिकारी ( माध्य ) जिल्हा परिषद, अकोला, अमरावती विभागीय विज्ञान अध्यापक, मंडळ व सुवर्ण मोहोत्सवी वर्ष रा.ल.तो. विज्ञान महाविद्यालय, अकोला समिति यांचे संयुक्त विद्यमाने रा.ल.तो. विज्ञान महाविद्यालय अकोला येथे दिनांक २२ मे ते २५ मे २०१९ या कालावधीत आयोजित केलेल्या राष्ट्रीय प्रज्ञाशोध परीक्षा - २०१९, विद्यार्थ्यांच्या शिबिरात मार्गदर्शन केल्याबाबत हे प्रमाणपत्र प्रदान करून गौरवण्यात येत आहे.




आपल्या सक्रिय सहभागाबद्दल हार्दिक अभिनंदन.

दिनांक. २५ मे २०१९

  
अध्यक्ष  
अमरावती विभागीय विज्ञान  
अध्यापक मंडळ

  
प्राचार्य  
रा.ल.तो. विज्ञान महाविद्यालय  
अकोला

  
शिक्षणाधिकारी ( माध्य )  
जिल्हा परिषद, अकोला



प्रादेशिक विद्या प्राधिकरण ( राज्य विज्ञान शिक्षण संस्था ) नागपुर  
शिक्षणाधिकारी ( माध्य ) जिल्हा परिषद, अकोला  
अमरावती विभागीय विज्ञान अध्यापक मंडळ  
रा.ल.तो. विज्ञान महाविद्यालय अकोला

**राष्ट्रीय प्रज्ञा शोध परीक्षा - विद्यार्थ्यांचे ( II लेव्हल ) मार्गदर्शन शिबीर - २०१९**


**प्रमाणपत्र**

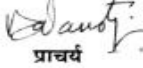
प्रमाणित करण्यात येते की, श्री/श्रीमती Dr. Poonam Negarwal  
शाळा/महाविद्यालय R.L.T. Science College, जि. Akola


यांनी प्रादेशिक विद्या प्राधिकरण ( राज्य विज्ञान शिक्षण संस्था ) नागपुर, शिक्षणाधिकारी ( माध्य ) जिल्हा परिषद, अकोला, अमरावती विभागीय विज्ञान अध्यापक, मंडळ व सुवर्ण मोहोत्सवी वर्ष रा.ल.तो. विज्ञान महाविद्यालय, अकोला समिति यांचे संयुक्त विद्यमाने रा.ल.तो. विज्ञान महाविद्यालय अकोला येथे दिनांक २२ मे ते २५ मे २०१९ या कालावधीत आयोजित केलेल्या राष्ट्रीय प्रज्ञाशोध परीक्षा - २०१९, विद्यार्थ्यांच्या शिबिरात मार्गदर्शन केल्याबाबत हे प्रमाणपत्र प्रदान करून गौरवण्यात येत आहे.

आपल्या सक्रिय सहभागाबद्दल हार्दिक अभिनंदन.

दिनांक. २५ मे २०१९

  
अध्यक्ष  
अमरावती विभागीय विज्ञान  
अध्यापक मंडळ

  
प्राचार्य  
रा.ल.तो. विज्ञान महाविद्यालय  
अकोला

  
शिक्षणाधिकारी ( माध्य )  
जिल्हा परिषद, अकोला

Senior college professors of Shri R.L.T. Science College guided students for National Talent Search Examination

**CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES**



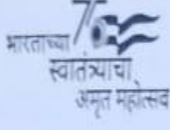
Mr. Prakash Mukund, Education Officer, Z.P. Akola, addressing in Vaedictory program of NTSE Guidance camp



News paper cutting



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



कार्यालय शिक्षणाधिकारी (माध्यमिक), जिल्हा परिषद, अकोला

ईमेल :- eosecondaryzpakola@gmail.com

फोन नं. ०७२४-२४२१९५१

पत्ता :- जिल्हा शिक्षण व प्रशिक्षण संस्था (DIET) परिसर, संतोषी माता मंदिरा मागे, अकोला.

जा.क्र./अ.जि.प./शिवि/राप्रशो/329 /2019

कार्यालय शिक्षण विभाग (माध्य.) जि.प.अकोला.


दिनांक : 26 /05 /2019

### प्रमाणपत्र

प्रमाणित करण्यात येते की, प्राचार्य, रा. ल. तो. विज्ञान महाविद्यालय, अकोला

आपल्या महाविद्यालयात दि. २२/०५/२०१९ ते दि. २५/०५/२०१९ या कालावधीत अमरावती विभागातील राष्ट्रीय प्रज्ञाशोध परिक्षेत द्वितीय पातळी करीता पात्र झालेले ५६ विद्यार्थ्यांचे निवासी शिबीर राज्य विज्ञान शिक्षण संस्था रवि नगर नागपूर, शिक्षणाधिकारी माध्यमिक जिल्हा परिषद अकोला व अमरावती विभागीय विज्ञान अध्यापक मंडळ व रा. ल. तो. विज्ञान महाविद्यालय अकोला यांचे संयुक्त विद्यमाने शिबीराचे ५ दिवसीय विनामुल्य निवासी शिबीर आयोजित करण्यात आले होते. या शिबीरामध्ये आपल्या महाविद्यालयातील प्रज्ञावंत प्राध्यापकांनी विद्यार्थ्यांना मार्गदर्शन केले. त्यांच्या अडचणी सोडविल्या तसेच टेस्ट पेपर सिरीजचे आयोजन करण्यात आले. याचा परिणाम अकोला जिल्ह्यामधून २९ विद्यार्थ्यांपैकी १६ विद्यार्थी राष्ट्रीय प्रज्ञाशोध परीक्षा शिष्यवृत्तीस पात्र झालेत ही अकोला जिल्हा करीता एक अवस्मरणीय व अभिमानाची बाब आहे. या यशामध्ये आपल्या प्राध्यापकांचा निश्चित सिंहाचा वाटा आहे.

करीता हे प्रमाणपत्र सहर्ष प्रदान करण्यात येत आहे. भविष्यात आपले महाविद्यालय असीच उत्तरोत्तर प्रगती करो ही शुभेच्छा ! व भविष्यात शिक्षण विभागास असेच सहकार्य लाभेल ही विनंती.

  
शिक्षणाधिकारी (माध्य.)  
जिल्हा परिषद, अकोला.

Letter of appreciation by Education officer, Z.P. Akola



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ **Guidance to students appearing for Homi Bhabha Child Scientist Examination:**

Homi Bhabha Bal Vaidnyanik Examination (Junior Scientist) is an examination conducted by Mumbai Science Teachers Association to encourage students to take keen interest in science and its application in daily life. Faculty members of our college guided to the school students of Akola city who are appearing for Homi Bhabha Child Scientist Examination. Students visited different laboratories of our college and performed variety of experiments under guidance of our teachers. Their parents also gave good feedback about cooperation of college Principal and staff members.

#### **Guidance to students appearing for Homi Bhabha Child Scientist Examination Photographic evidences**

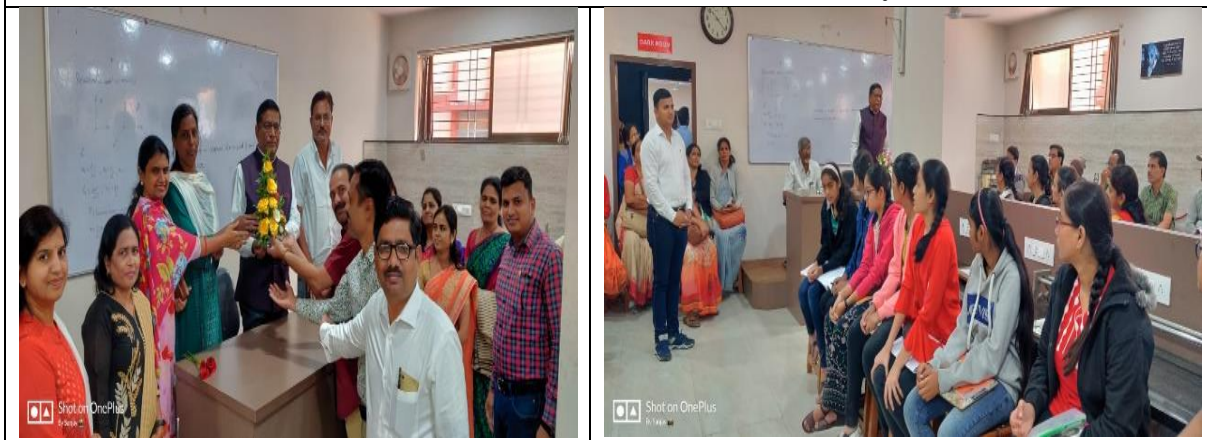




CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Guidance to the school students of Akola city



Appreciation of principal and staff members by parents



Happy faces of school students and their parents

Web links- <https://www.rltsc.edu.in/2019/12/04/school-students-visit/>  
<https://www.rltsc.edu.in/2019/12/16/homi-bhabha-jr-scientist-students/>

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ **The Science Magazine – *infoSCIENCE*:**

Our college has vision to become one of the best educational institutions in the country, aspiring for national recognition of excellence through teaching, learning, research and extension in the field of science and technology. College dedicates itself to the cause of science education and propagation of scientific temper among the students.

As per the vision and mission, 2 years before our college has started publishing the science magazine *infoSCIENCE*. During the session 2019-20, the 2 issues of this science magazine incorporated with total 32 scientific and research articles written by overall 42 authors are published on 19<sup>th</sup> December 2020 and 6<sup>th</sup> April 2020. One of that was released at the hands of Hon'ble Shri Sanjayji Dhotre, Minister of State for Education, Communication, Electronics and IT, Government of India and other at the hands of Principal Dr. Vijay D. Nanoty in online mode during lockdown period due to Covid-19 pandemic.

The goal of the coverage of the science magazine *infoSCIENCE* is to help readers and contributors make sense of the world of science and to help them assess the position of science and technology in the context of society. Focus of the magazine is to publish scientific and research articles, reviews with matter of interest to students, researchers and other who concerned with the wide implications of science and technology.

**Objectives** - The science magazine *infoSCIENCE* is exclusively devoted to propagate the science information to its readers and through them, to all who are interested. It is aimed to cater the needs of students, teachers, researchers and scientists who want to get their articles and reviews published for greater access to readers and benefit of society.

**Methodology** - The science magazine *infoSCIENCE* publishes scientific, research articles and reviews with popular and easily intelligible expositions of recent developments in science and technology.

**Outcomes** - In a short period of time, the science magazine *infoSCIENCE* becomes successful in propagating the science information amongst the students and its readers.

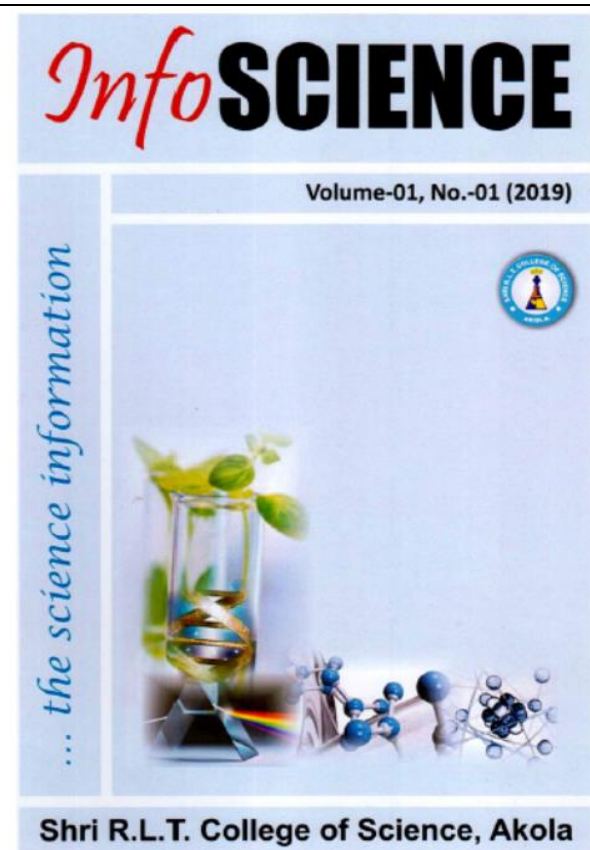


CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

The Science Magazine – *infoSCIENCE*



Release of magazine *infoSCIENCE* with the hands of Shri Sanjayji Dhotre, Honorable Union Minister of State for Ministry of Human Resource Development, Communications, Electronics and IT, Government of India.



# CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

<p><b>InfoSCIENCE</b> Volume-03, No.-01 (2021)</p> <p>... the science information</p> <p>Shri R.L.T. College of Science, Akola</p>	<p><b>InfoSCIENCE</b> Volume-04, No.-01 (2022)</p> <p>... the science information</p> <p>Shri R.L.T. College of Science, Akola</p>
<p><b>InfoSCIENCE</b> Volume-01, No.-01 (2019)</p> <p>... the science information</p> <p>Shri R.L.T. College of Science, Akola</p> <p><b>Patrons</b> Dr. Rajkumar B. Heda President Shri Vijaykumar Toshniwal Sr. Vice President Dr. Ravindra Jain Jr. Vice President Adv. Motisingh G. Mohta Hon. Secretary Shri Sharad Chaware Jt. Secretary The Berar General Education Society, Akola</p> <p><b>Advisors</b> Dr. Vijay D. Nanoty Principal Shri R.L.T. College of Science, Akola Dr. Rajendra L. Rahatgaonkar Co-ordinator IQAC Shri R.L.T. College of Science, Akola</p> <p><b>Editors</b> Dr. Sushil M. Nagrale Assistant Professor and Head Department of Zoology Shri R.L.T. College of Science, Akola Mobile - 9370322456 Dr. Pradip P. Deohate Assistant Professor Department of Chemistry Shri R.L.T. College of Science, Akola Mobile - 9890770318 Dr. (Mrs.) Anjali A. Sangole Assistant Professor Department of Botany Shri R.L.T. College of Science, Akola Mobile - 8550979012</p> <p>The Berar General Education Society's NAAC Reaccredited 'A' Grade with CGPA 3.12</p> <p>Shri R.L.T. College of Science, Akola</p>	<p><b>InfoSCIENCE</b> Volume-04, No.-01 (2022)</p> <p>... the science information</p> <p>Shri R.L.T. College of Science, Akola</p> <p><b>Patrons</b> Adv. Motisingh G. Mohta President Shri Vijaykumar S. Toshniwal Sr. Vice President Dr. Ravindra C. Jain Jr. Vice President Shri Pavan N. Maheshwari Hon. Secretary Er. Abhijeet G. Paranjape Jt. Secretary The Berar General Education Society, Akola</p> <p><b>Advisors</b> Dr. Vijay D. Nanoty Principal Shri R.L.T. College of Science, Akola Dr. Rajendra L. Rahatgaonkar Co-ordinator IQAC Shri R.L.T. College of Science, Akola</p> <p><b>Editors</b> Dr. Sushil M. Nagrale Associate Professor and Head Department of Zoology Shri R.L.T. College of Science, Akola Dr. Pradip P. Deohate Associate Professor Department of Chemistry Shri R.L.T. College of Science, Akola Dr. (Mrs.) Anjali A. Sangole Assistant Professor Department of Botany Shri R.L.T. College of Science, Akola Dr. Vinod D. Deotale Assistant Professor Department of Chemistry Shri R.L.T. College of Science, Akola</p> <p>The Berar General Education Society's NAAC Reaccredited 'A' Grade with CGPA 3.12</p> <p>Shri R.L.T. College of Science, Akola</p>

Web link - <http://rltsc.edu.in/2019/06/15/info-science/>



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Innovative and Creativity Magazine:

**Introduction-** 'Innovative and Creativity Magazine' is published every year on 'World creativity and innovation day', 21<sup>st</sup> April. The aim of the Innovative and creativity Magazine is to provide the platform for the students to publish their creative and innovative ideas present in their mind.

**Objectives-** To develop innovative and creative ideas as well as interest for research among the students. To provide small scale industry business ideas. To motivate student to apply for the patent.

**Methodology-** Teachers developed self-employment mind setup of students, taking a step towards Aatmnirbhar Bharat by self-creativity and innovations. As we believe that the creativity and Innovation has no limitations of any subjects and any languages, creative ideas in all discipline are highly appreciated and welcomed for the publication in this magazine. Many students gave various concept regarding different fields. In view to bring out their creative ideas on the paper which may give rise to small scale industry or business we have started this innovative project of Creativity and Innovation magazine. This magazine includes different Innovative ideas mostly from our M.Sc. students.

**Outcomes** - Students get motivated for creative thinking, which is a first step towards development of research culture among them. Students got knowledge of science behind many concepts. Two patents have been filled by the student and teacher.

### Innovative and Creativity Magazine Photo gallery



Publication of 'Innovative and Creativity Magazine' with the hands of Hon'ble District Collector, IAS, Neema Arora and dignitaries on the Dias.



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

The Berar General Education Society's  
**Shri R. L. T. College of Science, Akola**  
(Re-accredited with 'A' Grade by NAAC with CGPA 3.12)




**WORLD CREATIVITY AND INNOVATION DAY 2020**



*On this Innovation day,  
I wish you Develop your own Vision. Vision is  
the Specialty of Seeing the Imperceptible*

Edited by  
**Dr. P. T. Agrawal**      **Dr. K. M. Heda**      **Dr. A. G. Sarap**  
Department of Chemistry    Department of Chemistry    Department of Chemistry

### Content:-


Sr. No	Name of Student	Topic	Page NO.
1.	Ms. Komal S. Ingle	Personal Equipment Protection Against covid 19	1
2.	Ms. Komal S. Langote	Automatic Sanitizer Gate	2
3.	Ms. Sonali S. Wakode	Home-Made Sanitizer And Hand Wash Naturally And Alcohol Free	3
4.	Ms. Ankiat B. Potdukhe	Home Made Mask	4
5.	Ms. Archana S. Paraskar	Bioplastic using cornstarch and vinegar	5
6.	Ms. Shrutika S. Kadam	Chemical Alarm	6
7.	Ms. Komal B. Sewak	How To Clean Vegetable During Pandemic	7
8.	Mr. Rushikesh Ekhe	Free Energy Experiment for life time	8
9.	Ms. Renuka V. Siraskar	Preparation of spray of a azardicta indica use to protect from insects and bacteria	8
10.	Ms. Ankita V. Bhad	Short trick for iodine clock reaction	9
11.	Ms. Dnyaneshvari Bhatkar	Starch REpal Paper Yoga Is A Best Medicine To Avoid Covid-19	10
12.	Ms. Trupti G. Bhise	Home Made Good Night Refill Liqueed	11
13.	Ms. Komal V. Karale	Effective Ayurvedic Face Packs For Glowing Skin	11
14.	Ms. Shrutika V. Kadam	Glass apparatus Cleaning brush	12
15.	Ms. Priyanka A. Kahar	Best out of waste "Thread spools"	13
16.	Ms. Suhani S. Sharma	Home Made Scented Candle	14

The Berar General Education Society's  
**Shri R. L. T. College of Science, Akola**  
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**WORLD CREATIVITY AND INNOVATION DAY 2021**

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### Content:-

Sr. No	Name of Student	Topic	Page NO.
1.	Ms. Ankita P Jaiswal	How To Make Incense Stick At A Home	1
2.	Ms. Ankita B. Potdukhe	To Determine Which Tea Is More Healthful	2
3.	Ms. Archana S. Paraskar	Paper From Elephant Poop	3
4.	Ms. Shrutika Vijayrao Kadam	BOOK FOUNDER IN LIBRARY	4
5.	Ms. Suhani S. Sharma	Homemade Simple Water Filter	5
6.	Ms. Komal Suresh Ingle	To Measure the Pollution Level in Your Locality	6
7.	Ms. Komal Vinayak Karale.	Innovating Idea Regarding Housework	7
8.	Ms. Komal Bhikamchand Sewak	Home DNA Extraction	8
9.	Ms. Nikita M. Wankhade	Free Energy Generation Using Blades (Razor)	9
10.	Ms. Pratiksha H. Mhatre.	How To Make Indicator Strips At Home	10
11.	Ms. Priyanka Ashok Kahar.	Prevention of Accident From Drowsiness	11
12.	Ms Trupti Ganesh Bhise	How To Make Earthquake Alarm	12
13.	Ms. Komal Shankar Langote	Home made Neem soap	13

- Web links-** 1. <http://rltsc.edu.in/2020/04/28/creativity-and-innovation-magzine/>  
2. <https://www.rltsc.edu.in/2021/07/29/innovation-magzine-2020-21/>

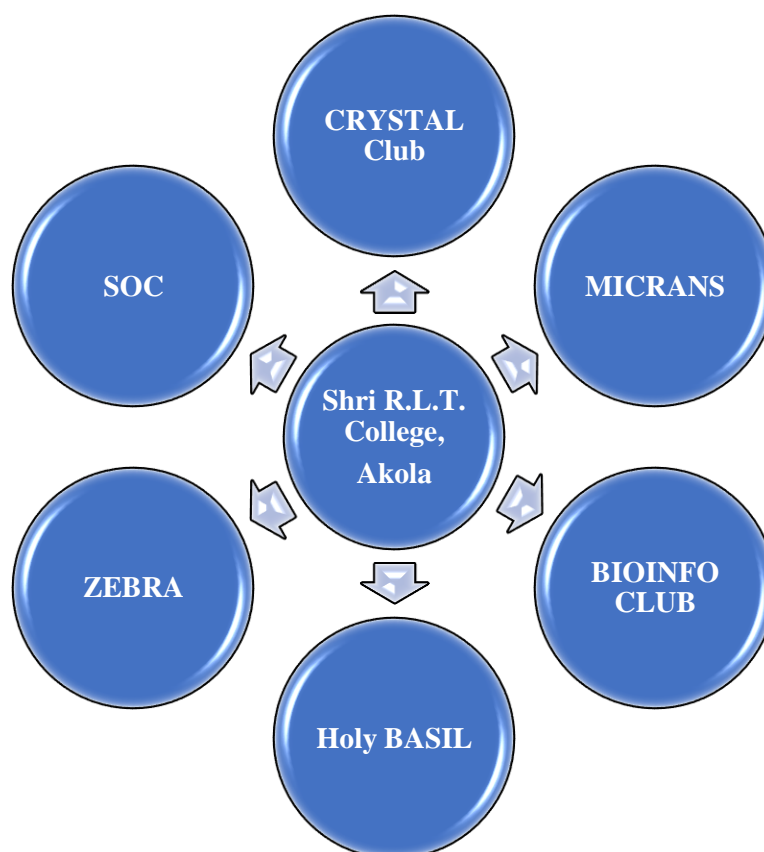
## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Science Clubs of college:

Each individual has his own interest, talent and abilities. To stimulate group participation, mobilizing interest in science and learning science joyfully following study clubs and associations are functioning in various departments of the college. Science clubs organized and conducted various innovative activities and participatory learning projects for students.

#### Objectives of Science clubs

1. To develop scientific leadership.
2. To perform experiments in connection with the basic principles of science.
3. To familiarize students with modern scientific developments and inventions which help the human life.
4. To help the students to find solution to their problems related to science.
5. To give rise to the feeling of discovery and development.
6. To make participatory learning process more interesting and fruitful.
7. To develop a positive outlook towards scientific occupations.
8. To identify the various needs and problems in daily life and finding their solution.
9. To allow the students the use of their intelligence in different situations.
10. To make the student perfect in scientific jobs and developing their self-confidence.



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ZEBRA (Zoology Education by Research Activities) Cell:

**ZEBRA** Cell of Zoology department undertook many innovative projects to inspire young minds of our students. Teachers guided students for these innovative participatory learning projects.

- **Biodiversity Calendar:** To know value of biodiversity and inculcate environmental consciousness among students and society, every year, designing and publication of Biodiversity Calendar is an innovative attempt made by B. Sc. II (Biology) students under supervision of Dr. Archana S. Sawarkar (Dept. of Zoology) and Dr. Anjali A. Sangole (Dept. of Botany). Along with flora and fauna, academic holidays as well as special days concerning environmental issues and importance of biodiversity are mentioned in it. Biodiversity Calendar became master piece of efforts taken by students to complete their participatory learning project. This project helped to increase the observation power of the students. The students began to carefully observe the surrounding flora and fauna.

Biodiversity Calendars were gifted in schools, colleges and society. Our parents and teachers gave economic contribution and motivated students to work as Nature messengers for our society.

### Biodiversity Calendar

SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA

BIODIVERSITY CALENDER-2017

JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

**Contributors:** B.Sc. II (Biology) Students  
**Supervisors:** Dr. Archana S. Sawarkar; Dr. Anjali A. Sangole

SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA

BIODIVERSITY CALENDER-2018

PHYLUM - PHEOPHYTA (BROWN ALGAE)

Pheophyta or brown algae rare group of autotrophic, multicellular organism. They contain the xanthophyll pigment-fucoxanthin, in addition to chlorophyll a and c. They are composed of eukaryotic or prokaryotic cell. They are mainly marine. Only four and five species are fresh water living. They are multicellular filamentous and complex in nature.

They are brown in colour because brown pigment are more in the cells than other pigments. Polysaccharides and alcohol are stored as reserve food. Alteration of generation is found in most of the species. Their gametes or zoospore have flagella of different sizes

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**Contributors:** B.Sc. II (Biology) Students  
**Supervisors:** Dr. Archana S. Sawarkar; Dr. Anjali A. Sangole



# CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

**SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA**

**BIODIVERSITY CALENDAR-2019**

branchiobdellida

Hirudinaria

**Phylum – Annelida**

Metamerically segmented and coelomate animals. They exhibit organ-system level of body organisation and bilateral symmetry.

Aphrodite

Chaetopterus

MAY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

S	M	T	W	T	F	S
30	5 - World's Environment Day	1				
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

**Contributors:** B.Sc. II (Biology) Students  
**Supervisors:** Dr. Archana S. Sawarkar; Dr. Anjali A. Sangole

**SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA**

**BIODIVERSITY CALENDAR-2020**

Pellia

Sphagnum

The sporophytes (the **diploid** form of the plant) of bryophytes are unbranched, producing a single spore-producing capsule (**sporangium**).

Lignum

Porella

NOVEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30		12 - Birds Day			

DECEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**Contributors:** B.Sc. II (Biology) Students  
**Supervisors:** Dr. Archana S. Sawarkar; Dr. Anjali A. Sangole

**SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA**

**BIODIVERSITY CALENDAR-2021**

Octopus

Chiton

**Mollusca is the second-largest phylum of invertebrate animals after the Arthropoda. They are soft-bodied and commonly protected by calcareous shell.**

Dentalium

Pila

JANUARY

S	M	T	W	T	F	S
31				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

FEBRUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						2 - World Wetlands Day

**Contributors:** B.Sc. II (Biology) Students  
**Supervisors:** Dr. Archana S. Sawarkar; Dr. Anjali A. Sangole





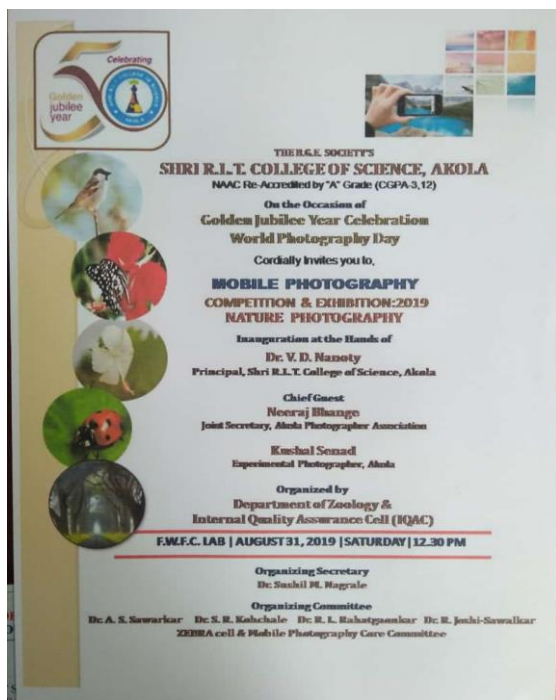
## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

- **Nature reading through Mobile photography:** Mobile is a much needed device for the today's generation. Peoples use mobile not only for talking but for many more other uses like internet surfing, chatting, photography and entertainment. To create positive use of Mobile, betterment for photography, to develop constructive interest about nature and social aspects and to elaborate hidden skill in students, Mobile photography competition and exhibition is organized every year by ZEBRA Cell. This contest definitely helps to develop keen interest in nature photography by mobile device with social aspects.

### Nature reading through Mobile photography



Mobile photography competition and exhibition: Session 2018-19




Mobile photography competition and exhibition: Session 2019-20

# CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

The Berar General Education Society's  
**Shri R. L. T. College of Science, Akola**



**Department of Zoology & IQAC**  
 Organized  
 Different Events to celebrate virtually  
**The Wild-Life Week 2020**



- o Assay Competition (Dr. Rashmi Joshi)
- o Mobile Photography Competition (Dr. S. Nagrale)
- o Quiz Competition (Dr. Rashmi Joshi & Dr. S. Nagrale)
- o Article Writing competition (Dr. Archana Sawarka)
- o Wild Life Documentary (Dr. S. Nagrale)

**Dr. Sushil Nagrale** H.O.D.      **Dr. R.L. Rahatgaonka** IQAC Coordinator

**Dr. Archana Sawarkar**    **Dr. Sudhir Kohchale**    **Dr. Rashmi Joshi**  
 Department of Zoology  
 Shri RLT College of Science, Akola

October 1-7

## Online Mobile photography competition: Session 2020-21



**Mobile Photography Competition**  
 ( Celebrating World Photography Day | 19 August )  
 Friday, August 27, 2021 | 1.00 pm

**Call for mobile captured photos**  
**Biodiversity and Environmental Impacts**

- \* Submit only one photo by each to link: <https://forms.gle/1D1hcMk1rNvX0hcCYA>
- \* Photos must reflect criteria above and be taken with mobile phone only
- \* All Photos must be submitted by August 25, 2021
- \* Jury reserve the right to not accept photos that do not fit theme

Organized by:  
 DEPARTMENT OF ZOOLOGY  
 IQAC, SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA

 Dr. S. M. Nagrale : 9370322456



**Mobile Photography Competition**  
 ( Celebrating World Photography Day | 19 August )  
 Friday, August 27, 2021 | 1.00 pm

**Congratulations !!!**  
 Results of Mobile Photography Competition on theme  
 Biodiversity and Environmental Impacts



1<sup>st</sup> winner : Rushabh Ingole



2<sup>nd</sup> winner: Sanskruti Bawaskar



3<sup>rd</sup> winner : Atharva Sawalkar



Consolation Prize: Ujwal Patel

Organized by:  
 DEPARTMENT OF ZOOLOGY  
 IQAC, SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA    Dr. S. M. Nagrale : 9370322456

## Online Mobile photography competition: Session 2021-22



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Mobile photography competition and exhibition: Session 2022-23



Expert's guidance about various techniques of nature and wildlife photography and felicitation of winners of nature photography competition

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Wall Magazine BESST (Biological & Environmental Studies with Social Temperament):

The Wall Magazine **BESST** (Biological and Environmental Studies with Social Temperament) is an innovative participatory learning project for B.Sc. Biology students. It is a launch pad for the student's creative urges to blossom naturally. As the saying goes, mind like parachute works best when opened. This humble initiative set the budding minds free allowing them to roam free in the realm of experience to create a living world in words. Our student authors have put across some amazing pieces of writing in this Wall Magazine.

Dr. Archana S. Sawarkar worked as Chief Editor and Dr. Sudhir R. Kohchale, Dr. Rashmi Joshi (Sawalkar), Mr. Shailendra V. Madavi worked as Area Editors for Animal Science, Environmental Science and Plant Science respectively. Various current issues in biological Sciences are reflected through this wall magazine.





CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Various current issues in biological Sciences are reflected through this wall magazine 'BESST'.



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Words of appreciation by visitors



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

- **Birds of Akola:** The project entitled “Birds of Akola” is a piece of work carried out by B.Sc. II (Sem. IV) students under supervision of Dr. Archana S. Sawarkar. It is an innovative participatory learning project which included 329 species of birds from 69 families found in Akola region. Information about habit and habitat, general characters, feeding behaviour and ecological importance of each bird is given. Proceeding of the project was released by the hands of Dr. R. B. Heda, President, The B.G.E. Society, Akola on 12<sup>th</sup> March 2019. With this project students understands the bird diversity of Akola region and importance of birds in nature as well as in ecosystem.

### Birds of Akola: An Innovative project to study Bird diversity of Akola region




Release of Information Book “Birds of Akola” by the hands of  
Dr. R. B. Heda, President, The B.G.E. Society, Akola

**CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES**

Sant Gadge Baba Amravati University, Amravati

**Shri R.L.T. College of Science, Akola**  
(Re-Accredited 'A' Grade by NAAC with CGPA 3.12)

Department of Zoology

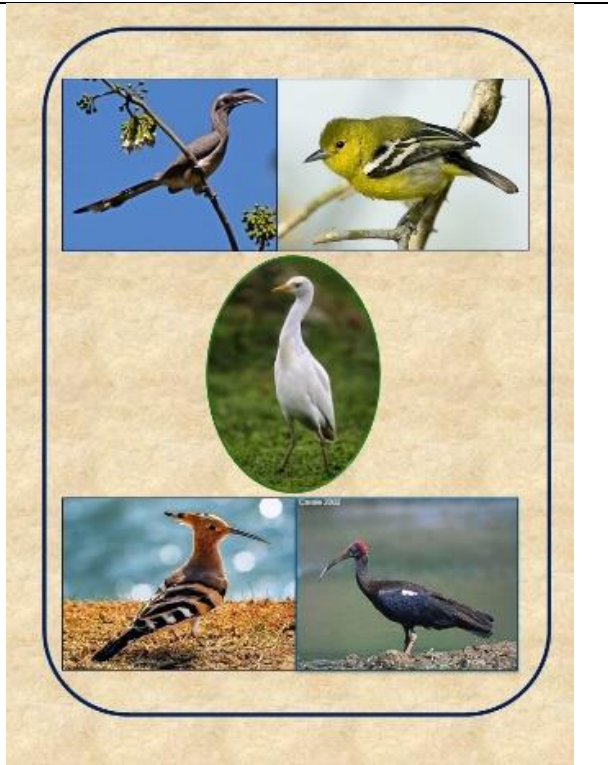


Project Assignment

**Birds of Akola**

Class: B.Sc. II (Sem-IV)  
Session: 2018-19  
Subject: Zoology

- Supervisor -  
Dr. Archana S. Sawarkar  
Shri R.L.T. College of Science, Akola




Shri R.L.T. College of Science, Akola  
Department of Zoology


CERTIFICATE


This is to certify that the project entitled "Birds of Akola" is a piece of work carried out by B.Sc. II (Sem. IV) students under supervision of Dr. Archana S. Sawarkar. Project Assignment is a part of Internal Assessment as per the guidelines of Sant Gadge Baba Amravati University, Amravati (M.S.), India.

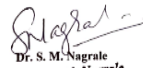
Place: Akola

Date:

  
 Dr. Archana S. Sawarkar  
 Supervisor




  
 Dr. V. D. Nanoty  
 Principal

  
 Dr. S. M. Nagrale  
 Dept. of Zoology,  
 Shri R.L.T. College of Science,  
 AKOLA

308

Rufous Screeper  
 Family: Acrididae  
 Common Name: Rufous Screeper  
 Marathi Name: रूफस  
 Scientific Name: Dendrocincla vagabunda.



**Habit and Habitat:**

- The widespread population shows variations and several subspecies are recognized.
- It has been observed feeding on ecto-parasites of wild deer. They are known as tick birds.

**Characteristics:**

- The breeding season in India is April to June
- The nest is built in trees and bushes and is usually a shallow platform
- There are usually 3-5 eggs laid.



Appreciation by Dr. I. A. Raja, Chairman, Board of Studies Zoology, SGB Amravati University, Amravati



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

- **Diagrammatic manual of Chordate Morphology:** During session 1019-20, a diagrammatic manual of Chordate Morphology was prepared by B.Sc. II, Semester III students under guidance of Dr. Archana S. Sawarkar and Dr. Sudhir Kohchale. This attractive self-study material is prepared for completing student's project assignment with an innovative participatory learning activity. About fifty competent and dedicated students contributed to this participative collective endeavour of sketching and completing this diagrammatic manual.

Keeping the view to contribute environmental conservation by reducing use of papers, the copy of this manual was provided to every student of B.Sc. II, Zoology. We hope that our students would find this self-made e-book adequately useful for studying chordate morphology more interestingly.







## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

- **Wild life pencil art exhibition:** ZEBRA Cell, Department of Zoology has organized the wild life pencil art exhibition on 12<sup>th</sup> of March 2019. The coordinator of the exhibition was Dr. Rashmi Joshi Sawalkar while members of organizing committee were Dr. Archana Sawarkar and Dr. Sudhir Kohchale. The inauguration of the exhibition was done by the hands of respected Dr. R.B. Heda, President of the B.G.E. Society, Akola in the gracious presence of executive members of B.G.E. society and respected Dr Katore, Head P. G. Dept. of Mathematics, SGBAU, Amravati. The sketches of wild life were drawn by the BSc students. It was an innovative effort made by organizing committee to create awareness about biodiversity conservation and developing skill other than studies among the students.

### Wild life pencil art exhibition

	
	
All The respected dignitaries with organizing committee members.	Students from different schools are watching the art gallery sketches drawn by B.Sc. students

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Survey of Dust pollutant from different areas of Akola City:

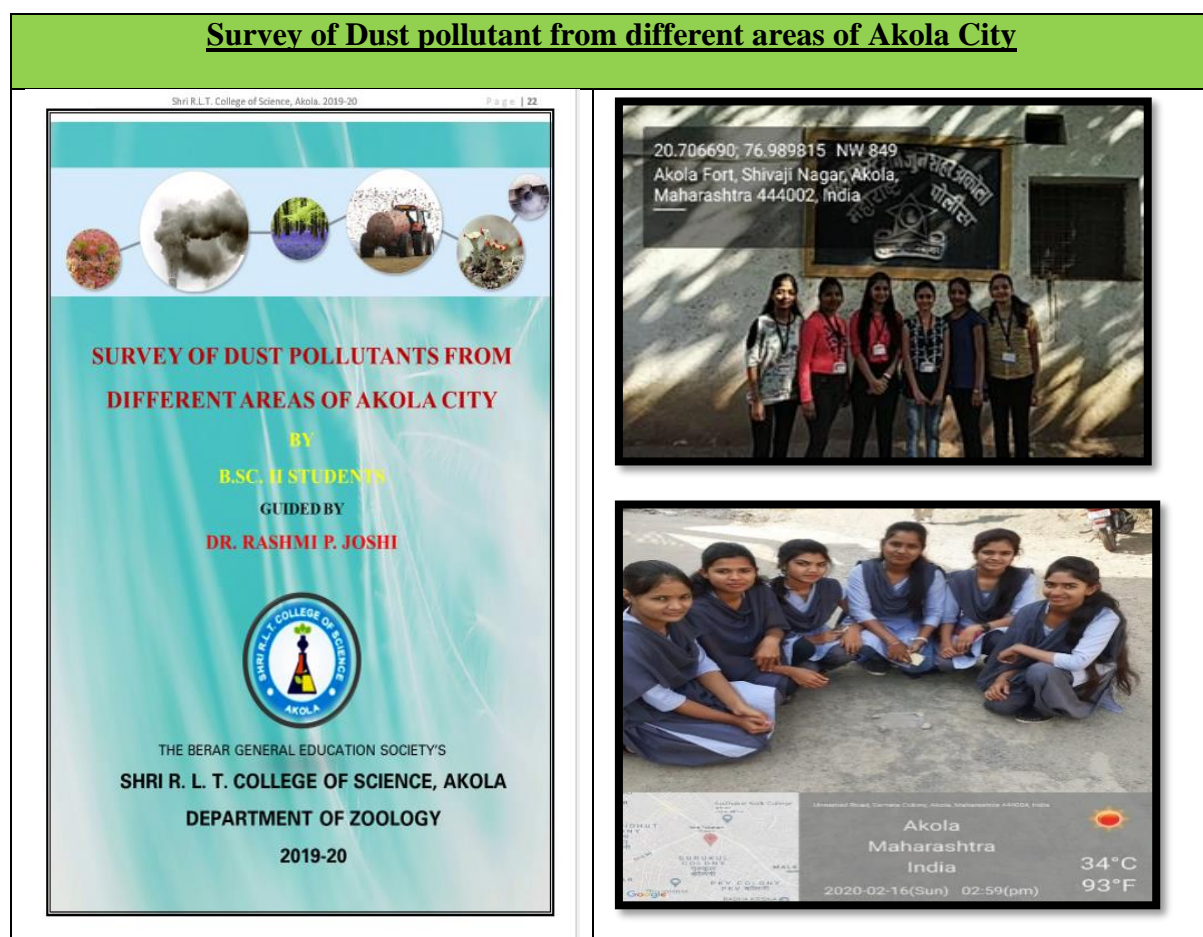
All the students of BSc II, Sem IV had given this innovative project assignment to perform the survey of dust pollutants in different areas of Akola city. About 190 students were allots different areas in the group of 4-5 students.

**Collections of samples from:** Dust samples were collected from 40 main areas of Akola city. The tiles of size  $10 \times 10 \text{ cm}^2$  were placed for collection of dust every day for 24 hours daily for 15 days.

**Qualitative Analysis of Dust Samples:** Nitrates and Sulphate content by standard laboratory method.

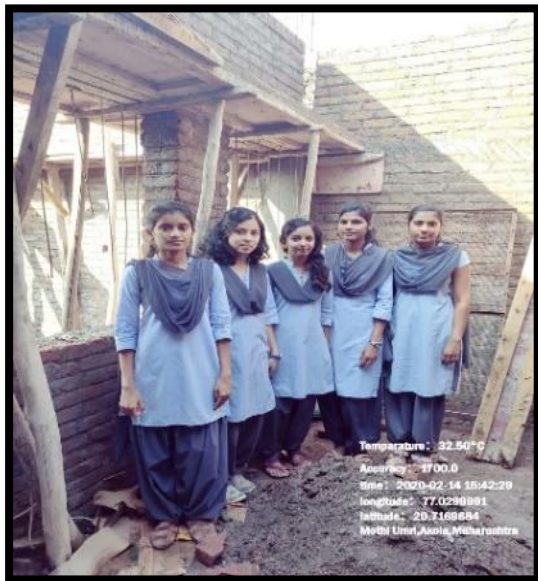
**Conclusion:** While doing the study we found that the dust in Akola city is harmful for living beings, as in qualitative analysis presence of Sulphates and Nitrates were recorded which are harmful and may causes Cardiac and Pulmonary diseases. The PM (Particulate Matter) showed presence of pollens in different samples which are the allergens for respiratory diseases. Through this study we tried to make awareness among the peoples about Dust pollution and the preventions. By doing this survey students get knowledge about the Environment Consciousness and disadvantages of pollution for human beings.

### Survey of Dust pollutant from different areas of Akola City





**CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES**



Collection of Dust Samples from 40 main areas of Akola city.

Analysis of Dust Samples by standard laboratory method.

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### CALCULATIONS:

Average settling rate of dust particles was calculated by the formula:

$$= \frac{\text{Total area of Tile} \times \text{Average weight of sample}}{\text{Time}} \text{ mg cm}^2/\text{mins}$$

**Table:1 Average weight and Settling rate of dust samples collected from different areas from Akola city:**

Sr. no.	Group Name	Area from where dust sample collected	Average weight of dust sample	Average settling rate of dust particles
1	Group A	Sindhi Camp Area	0.055 mg	0.0038 mg cm <sup>2</sup> /mins
2	Group B	Civil Lines		mg cm <sup>2</sup> /mins
3	Group C	Motji Umari	0.083 mg	0.0054 mg cm <sup>2</sup> /mins
4	Group D	Pawan Nagri		mg cm <sup>2</sup> /mins
5	Group E	Zijha Parishad Colony, Khadki	0.836 mg	0.0576 mg cm <sup>2</sup> /mins
6	Group F	Engineering Colony Motji Umari	0.046 mg	0.0032 mg cm <sup>2</sup> /mins
7	Group G	Malkapur		mg cm <sup>2</sup> /mins
8	Group H	New Bus Stand	0.082 mg	0.0046 mg cm <sup>2</sup> /mins
9	Group I	Civil Hospital, GMC Square	0.027 mg	0.0018 mg cm <sup>2</sup> /mins
10	Group J	Shivar/ Shivani	0.040 mg	0.0318 mg cm <sup>2</sup> /mins
11	Group K	Banjara Nagar	0.020 mg	0.0018 mg cm <sup>2</sup> /mins
12	Group L	Tatod Layout, Yeta Road.	0.014 mg	0.0010 mg cm <sup>2</sup> /mins
13	Group M	Choti Umari		mg cm <sup>2</sup> /mins
14	Group N	Khadan Road		mg cm <sup>2</sup> /mins
15	Group O	Desai Stadium, Station Road.	0.03 mg	0.0063 mg cm <sup>2</sup> /mins
16	Group P	P.D.K.V. Akola	0.20 mg	0.0139 mg cm <sup>2</sup> /mins
17	Group Q	Ankesh	0.066 mg	0.0417 mg cm <sup>2</sup> /mins
18	Group R	Dabki Road, Oldcity	0.012 mg	0.0172 mg cm <sup>2</sup> /mins
19	Group S	Harihar Peth	0.013 mg	0.0005 mg cm <sup>2</sup> /mins
20	Group T	Rajputnara	0.017 mg	0.0011 mg cm <sup>2</sup> /mins
21	Group U	Ram-Nagar	0.010 mg	0.0008 mg cm <sup>2</sup> /mins
22	Group V	Akot File	0.020 mg	0.0147 mg cm <sup>2</sup> /mins
23	Group W	Washim Bypass	0.020 mg	0.0012 mg cm <sup>2</sup> /mins
24	Group X	Ganga Nagar		mg cm <sup>2</sup> /mins
25	Group Y	Khadaki	0.120 mg	0.0707 mg cm <sup>2</sup> /mins
26	Group Z	Saraswati Nagar, Tukaram Chowk		mg cm <sup>2</sup> /mins

**Conclusion:** While doing the study we found that the dust in Akola city is harmful for living beings, as in qualitative analysis presence of Sulphates and Nitrates were recorded which are harmful and may causes Cardiac and Pulmonary diseases. The PM (Particulate Matter) showed presence of pollens in different samples which are the allergens for respiratory diseases. Through this study we tried to make awareness among the peoples about Dust pollution and the preventions.



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ‘Holy BASIL’ (Botanical Association for Sustainable and Innovative Learning)

‘Holy BASIL’ Club of Botany department organised some nature friendly innovative activities for students and all stakeholders.

- **Making Eco-friendly colours for Holi:** State-level E-Workshop on Eco-friendly Holi was organized by ‘Holy BASIL’ Club of Botany department. Speaker & Demonstrator, Mrs. Pragati Madhai, prepared & demonstrated the brilliant shades of Holi colours which were made from Natural extracts. Most of these plants also had medicinal properties and Holi colours prepared from them were actually beneficial to the skin. Natural colours give positive effect on human body. The natural colours are obtained from Eco friendly sources like plants. Total 388 participant are participated in this Workshop. The message given by this innovative activity is- ‘By using these safe, natural colours we can help to save our Environment and conserve our Bio-diversity’.

Youtube link: [https://www.youtube.com/watch?v=XOqLPtYO\\_D4&authuser=0](https://www.youtube.com/watch?v=XOqLPtYO_D4&authuser=0)

### Making Eco-friendly colours for Holi

<div style="text-align: center;"> <b>प्रकृति के रंग</b> <b>प्रकृति के संग</b></div> <p style="text-align: center;">The Berar General Education Society's <b>Shri R.L.T College of Science ,Akola</b> <small>Civil Lines, Akola, Maharashtra -444001 (Reaccredited by NAAC with 'A' Grade CGPA-3.12 )</small></p> <p style="text-align: center;"><b>STATE LEVEL E-WORKSHOP ON ECO-FRIENDLY HOLI</b></p> <p style="text-align: center;"><b>Organised by</b></p> <p style="text-align: center;">Department of Botany Environment Cell &amp; IQAC <b>In Collaboration with Gramayan Pratishthan ( NGO), Nagpur</b></p> <p style="text-align: center;"><b>27<sup>th</sup> March 2021 at 4.00pm</b></p> <p style="text-align: center;">Registration link <a href="https://forms.gle/V5WCG8oxPZZBnGS78">https://forms.gle/V5WCG8oxPZZBnGS78</a></p>	<p style="text-align: center;"><b>Our Patrons</b></p> <p style="text-align: center;"><b>Adv. M. G. Mohta</b> President The Berar General Education Society, Akola</p> <table style="width: 100%;"><tr><td style="width: 50%; text-align: center;"><b>Shri. V. S. Toshniwal</b> Sr. Vice President The B.G.E. Society, Akola</td><td style="width: 50%; text-align: center;"><b>Dr. R. C. Jain</b> Jr. Vice President The B.G.E. Society, Akola</td></tr><tr><td style="width: 50%; text-align: center;"><b>Shri. P. N. Maheshwari</b> Hon. Secretary The B.G.E. Society, Akola</td><td style="width: 50%; text-align: center;"><b>Er. A. G. Paranjape</b> Joint Secretary The B.G.E. Society, Akola</td></tr></table> <p style="text-align: center;">All Executive Committee Members of the B. G. E. Society, Akola</p> <p style="text-align: center;"><b>Organizing Committee</b></p> <p style="text-align: center;"><b>Chief Organizer</b> <b>Dr. Vijay D. Nanoty</b> Principal, Shri R. L. T. College of Science, Akola</p> <p style="text-align: center;">IQAC Coordinator <b>Dr. R. L. Rahatgaonkar</b></p> <table style="width: 100%;"><tr><td style="width: 50%; text-align: center;">Convener <b>Dr. A. A. Sangole</b> Assistant Professor Department of Botany</td><td style="width: 50%; text-align: center;">Organizing Secretary <b>Mrs. V. N. Badgajar</b> Head Department of Botany</td></tr><tr><td style="width: 50%; text-align: center;"><b>Dr. P. M. Khadse</b> Assistant Professor Department of Botany</td><td style="width: 50%; text-align: center;"><b>Mr. S. V. Madavi</b> Assistant Professor Department of Botany</td></tr></table> <p style="text-align: center;">Members All members of Environment Cell</p> <p style="text-align: center;">Technical Support</p> <table style="width: 100%;"><tr><td style="width: 50%; text-align: center;"><b>Dr. R. B. Ghayalkar</b> Assistant Professor Department of Computer Science</td><td style="width: 50%; text-align: center;"><b>Dr. S. R. Jaiswal</b> Assistant Professor Department of Physics</td></tr></table>	<b>Shri. V. S. Toshniwal</b> Sr. Vice President The B.G.E. Society, Akola	<b>Dr. R. C. Jain</b> Jr. Vice President The B.G.E. Society, Akola	<b>Shri. P. N. Maheshwari</b> Hon. Secretary The B.G.E. Society, Akola	<b>Er. A. G. Paranjape</b> Joint Secretary The B.G.E. Society, Akola	Convener <b>Dr. A. A. Sangole</b> Assistant Professor Department of Botany	Organizing Secretary <b>Mrs. V. N. Badgajar</b> Head Department of Botany	<b>Dr. P. M. Khadse</b> Assistant Professor Department of Botany	<b>Mr. S. V. Madavi</b> Assistant Professor Department of Botany	<b>Dr. R. B. Ghayalkar</b> Assistant Professor Department of Computer Science	<b>Dr. S. R. Jaiswal</b> Assistant Professor Department of Physics
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## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



### ➤ Herbarium making:

#### Herbarium making:

#### Report on "Herbarium"

Department of Botany, B.Sc II (B2,B5&b7) submitted project assignment on Topic " Herbarium Collection of different taxonomic plants" under the supervision of Dr. A. A. sangole.

A herbarium project was held in the Department of Botany for B.Sc. II students on. The motive of this project was to introduce the students to different kinds of plants specimens to be preserved for long duration and also provided the knowledge about different varieties of plant species.

Herbarium is a repository of dried, pressed and systematically named plant materials mounted on herbarium sheets. Herbarium is an invaluable conservatory of plant material and data and serves as a fundamental resource for identification, nomenclature and classification of plants. The herbaria greatly aid in all kinds of taxonomic researches and serve as a source for biodiversity collections.

We are very much thankful to Mrs. Vaishali N. Badgujar Head, Department of Botany. We are also thankful to teaching and non-teaching staff for their Co-operation





## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ “Seed bank”- Seed collection of different plant varieties:

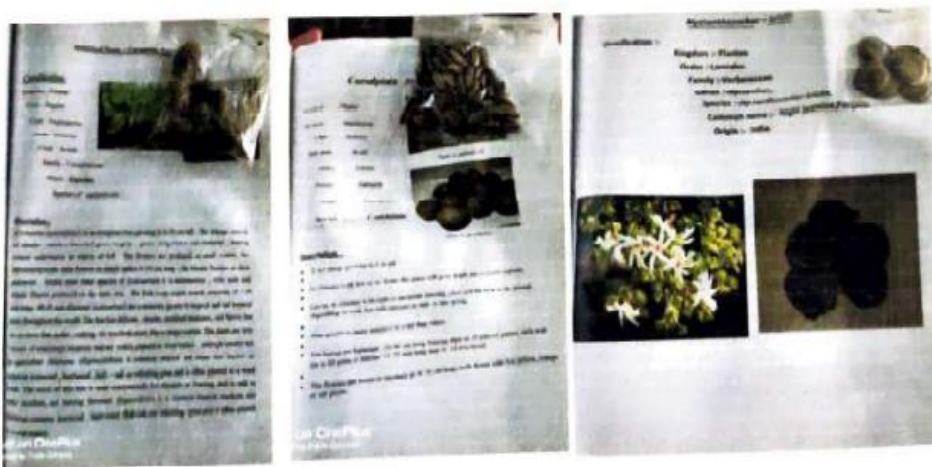
#### “Seed bank”- Seed collection of different plant varieties

### Report on “Seed Bank”

Department of Botany, B.Sc II sem III students (B2,B5&B7) submitted project assignment on Topic “ **Seed Collection of different varieties of plants**” under the supervision of Dr. A. A. sangole

A seed bank is a facility used to store seeds of various crops and wild plants, in an effort to maintain biodiversity. The storage of material in the form of seeds is one of the most widespread and valuable approaches to conservation. Seeds are a convenient means of long term storage of genetic diversity, as the samples are small in size, are easily handled, require low maintenance and frequently remain viable for long periods.

Department of Botany has developed seed banks for the storage of seeds. This project assignment is very important for students for the identification of plants and it's important. This should prudently combine theory with practical



### ➤ Flower Exhibition: To know the local variety of flowering plants

A flower Exhibition was held in the Department of Botany for B.Sc.students on dated 23/01/2019 Total 180 students are taking parts of the exhibition. The motive of this event was to introduce the students to different kinds and varieties of flowers. Forty-eight students were participated in this event. The President of this function was Dr. V.D. Nanoty, Principal of Shri R.L.T. college science, Akola and Chief guest was Dr. Damodare, Assistant Professor L.R.T. college Akola . The competition was judged by Dr. Poonam T. Agrawal, Head, Department of Chemistry & Dr. Sudhir Kohchade, Department of Zoology.

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

**Flower Exhibition: To know the local variety of flowering plants**



**Innovative activities of Bioinfo Club**

Bioinfo Research portal developed by department of Bioinformatics to develops research attitude in students, up gradation and updating of recent research in subject. Through Bioinfo Research Portal, students can publish their research articles, scientific articles and research notes including latest and recent news. This publication carried out Bimonthly, only selected and edited articles display on the Portal.

**Innovative activities of Bioinfo Club**





## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Bioinfo Research portal inaugurated by the Principal Dr. V. D. Nanoty



BioInfo Club organized student's seminar competition on dated 11<sup>th</sup> Sept. 2019 on theme 'BIOINFORMATICS: Scope and Application' More than 30 students of B.Sc. II and III participated in the competition.


## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### Inspiring Innovative activities of 'MICRANs' (Microbiology Innovative Creations by Research Array for Noble Scholars)

#### ➤ Innovative Rangoli competition on 'Immune system: our body Soldier':

Department of Microbiology in collaboration with Microbiologist Society India organized Rangoli competition on 'Immune system: our body Soldier'. The activity was organized on Independence Day 15th August 2019. Through this, students came to know that, the immune system is like the military that protects your body, or your homeland, against invaders and prevents invaders, such as viruses and bacteria, from coming in, taking over and trying to take down your homeland.

**Innovative Rangoli competition on 'Immune system: our body Soldier'**



The poster features the 50th Golden Jubilee logo of Shri. R.L.T. College of Science, Akola, and the MICRANs logo. It details the event's date (15th August 2019), time (7:45 a.m.), and venue (U.G. Microbiology Laboratory). It also lists the organizers: Ms. S. N. Gawande (Activity In charge), Dr. H. S. Malpani (P.G. Coordinator), Dr. U. K. Bhalekar (HOD), and Dr. V. D. Nanoty (Principal). The theme is 'Immune system: Our body Soldiers', illustrated with a cartoon bacterium holding a shield and a virus.

**B. G. E. Society's**  
**Shri. R.L.T. College of Science, Akola.**  
**GOLDEN JUBILEE YEAR CELEBRATION**  
**Department of Microbiology**  
In collaboration with Microbiologist Society India.  
Organises  
**Rangoli Competitions for P.G. Students**  
On Theme  
**"Immune system: Our body Soldiers"**

Date: 15<sup>TH</sup> August 2019  
Inauguration Time: 7.45 a.m.  
Venue: U.G. Microbiology Laboratory  
Department of Microbiology

Ms. S. N. Gawande  
Activity In charge

Dr. H. S. Malpani  
P.G. Coordinator

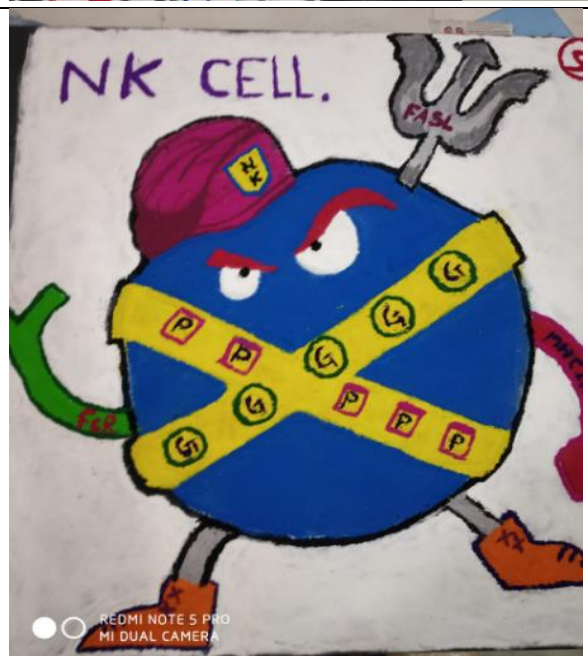
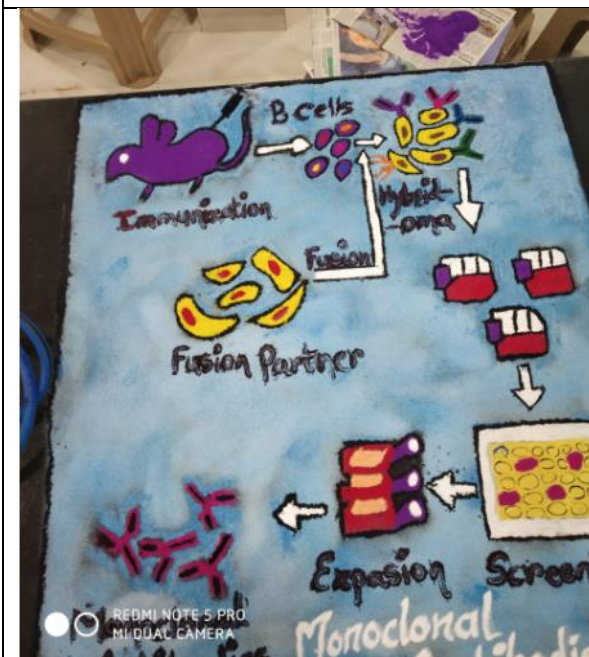
Dr. U. K. Bhalekar  
HOD

Dr. V. D. Nanoty  
Principal





CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Web-link: <https://www.rltsc.edu.in/2019/08/20/rangoli-competitions-for-p-g-students/>



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

- **Microbiome Food festival:** Microbiome Food festival organised by Department of Microbiology, Shri R.L.T. College of Science Akola on 13th February 2020. Students prepared fermented food and explained role of Microbes involved in that. Whole event is conducted under Guidance of Dr. V.D. Nanoty, Principal and Dr. U.K. Bhalekar, Head Department of Microbiology. Dr. Anjana Singh from Nepal and Dr. Yeasmine from Bangladesh were Chief Guest of Event Dr. Lande and Dr. Deshpande worked as Jury member. Dr. Harish Malpani, Ms S.N. Gawande and all CHB Staff and students took efforts to make evente successful. Through this innovative activity beneficial microorganisms were introduced to students.

### Microbiome Food festival to know the beneficial microorganisms



Web-link: <https://www.rltsc.edu.in/2020/02/16/microbiome-food-festival/>

Department of Microbiology in collaboration with MICRANS unit & IQAC of R.L.T. College of Science organized the National Science Day, 28 Feb 2019. On this occasion, a



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### Innovative activities of CRYSTAL Club

#### (Chemical Research by Young Scientist & Technicians Aborting Lacking of society)

To enhance the innovative academic activities of student, department of chemistry established a student's club namely 'CRYSTAL Club' (Chemical Research by Young Scientist & Technicians Aborting Lacking of society). Some prominent activities of CRYSTAL Club are as under

- **Blank Paper Bank:** "To Save the Paper to Save the Tree" with this Moto CRYSTAL Club of chemistry department develop innovative best practice of Blank paper Bank. To create environment awareness and to save the papers, CRYSTAL Club members started collecting unused blank papers. Students use new practical manual for every semester. After the end of session, some unused or blank pages remain in it. Note books prepared from such blank papers were donated to needy children of village school and made them useful again. This is a regular activity from session 2017-18.

#### Blank Paper Bank: "To Save the Paper to Save the Tree"



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

➤ **Online Atchem ... Aptitude Test in Chemistry:** Aptitude Test is arranged every year by Department of chemistry to create interest in chemistry, assess the conceptual understanding and to upgrade the subject knowledge.

Links to download the details report of Online Atchem-Aptitude Test (2017-18 to 2021-22):

- Link: 1. <https://www.rltsc.edu.in/wp-content/uploads/2021/12/Report-Aptitude-Test-in-Chemistry-2017-18.pdf>
2. <https://www.rltsc.edu.in/wp-content/uploads/2021/12/Report-Aptitude-Test-in-Chemistry-2018-19.pdf>
3. <https://www.rltsc.edu.in/wp-content/uploads/2021/12/Report-Aptitude-Test-in-Chemistry-2019-20.pdf>
4. <https://www.rltsc.edu.in/wp-content/uploads/2021/12/Report-Aptitude-Test-in-Chemistry-2020-21.pdf>
5. <https://www.rltsc.edu.in/wp-content/uploads/2021/12/Report-Aptitude-Test-in-Chemistry-2021-22-1.pdf>

➤ **National level workshop on “Art of perfume and soap making”:**

“Education must be for giving the jobs, not for securing the jobs” with this motto Department of Chemistry's CRYSTAL Club organized a One Day National level workshop on 'The Art of Perfume & Soap Making' on 9<sup>th</sup> September 2018. Hon'ble Dr. Ranjeet Patil, Minister of Home Affairs was the Inaugurator of the workshop. IAS, District Collector, Akola Hon'ble Shri Astikkumar Pande was the Guest of Honor for this workshop. Hon'ble Dr. R.B. Heda, the President of The B.G.E. Society, Akola was the President for the Programme. The Inauguration of workshop took place in the gracious presence of Honorary Sec. of the B.G.E. Society Adv. Motisinghji Mohta and all the executive member of the B.G.E. Society. Er. Ashween Nannware, Scientist, CSIR central Institute of Medicinal and Aromatic Plant Lucknow and Mr. and Mrs. Mukul Agrawal Industrialist of Manufacturing Perfume and fragrance Product, Nagpur was the Resource person of the workshop. More than 500 students from all over the region got benefited by this workshop. All the staff members and members of crystal club organized the event

### National level workshop on “Art of perfume and soap making”





CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



**Hands – On training on ‘Soap and Perfume making’**

Objective behind this workshop was developed skill among the students and make them aware about the small-scale industries and developed interest about the self-employment and small entrepreneurship. During this workshop hands on training was given to the students for the preparation of various herbal product like soap and perfume.

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Online One-Month Add-On Course on ‘Digital Skills for Creative Student-Teachers

#### **OBJECTIVES:**

1. To provide information and skill to the student-teachers about the various e-content.
2. To motivate the students to use e-content in their seminars
3. To Promote the generation of e-Content in all subjects
4. To make aware the student-teachers of various e-content & how can they be used in it to make their teaching-learning process more effective.
5. To make available the e-content to them through various delivery modes for formal and non-formal education, for supplementing and complementing teaching


**METHODOLOGY:** The whole world is facing the pandemic condition of covid-19. This situation affects the complete life of people. In such conditions, it is the duty of a teacher to boost the morale of the students. The situation teaches everyone that we should be ready for teaching- learning in all conditions because how can one stop the education of the students? For many years we are using the traditional methods of Blackboard for teaching it is quite difficult to switch towards the modern computerized method of teaching-learning. Teaching in an online environment requires a specific set of skills. Online teachings necessities moving beyond the traditional ideology. To adopt new more facilitative practices teachers needs training and support to be willing to adopt new teaching paradigm. In view of this Shri R.L.T. College of science faculty members have taken the initiative to arrange one such digital skill development program for the student of B.Ed. College who were soon going to become teachers. This course is designed to equip learners with essential digital skills for the modern century workplace. The faculty development program was organized by Shri R. L.T. College from 10th July to 8th August 2021. In this program many wise digital skill development activities are there, like the opening of a Goggle account, google class, preparation of video lectures, etc. Assignments were also given so that there should be liveness in the programme. Our expert faculty by their videos or direct live teaching have explained all the concepts to the participants. Day-wise activity was there. This one-month programme helps all the students to develop digital skills without paying a single rupee for it during the pandemic condition of the corona.

#### **OUTCOMES:**

1. Total of 240 participants get benefited from this workshop
2. Students get aware of various digital skills of teaching-learning.
3. All round development of Teaching personality of student-teacher as Techno savvy is done.
4. At the end of this workshop participants should come to know.... • How to open a Google account. • How to create our own google • How to assign the work, check the test in google class. How to create our video lectures.
5. Self-confidence is developed among the participants toward modern teaching.
6. They Come to know the different digital skills
7. Participants’ teachers have developed their own e-contents.





# CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES




The Berar General Education Society's  
**SHRI R. L. T. COLLEGE OF SCIENCE, AKOLA**  
(It is accredited with 'A' Grade by NASIC with COIPA 3.12)

*In Collaboration with*  
**GOVERNMENT COLLEGE OF EDUCATION (C.T.E.), AKOLA**  
*Organizes*  
**ONE MONTH ADD-ON PART-TIME COURSE ON**  
**DIGITAL SKILL DEVELOPMENT PROGRAM FOR STUDENT-TEACHER**  
*From 10<sup>th</sup> July to 08<sup>th</sup> August 2021*






**Dr. V. D. Nanoty**  
Principal & Convener



**Dr. V. V. Deo**  
Principal I. C. G. C. E. Akola  
& Co-Convener



**Dr. P. T. Agrawal**  
Organizing Secretary

### FOCUS AREA

 <div style="background-color: #0056b3; color: white; padding: 5px;"> <p><b>Use of Google Drive</b></p> <ul style="list-style-type: none"> <li>• Create and Democratize the Google Class Room for Teaching</li> </ul> </div>	 <div style="background-color: #0056b3; color: white; padding: 5px;"> <p><b>Preparing Video or Streaming</b></p> <ul style="list-style-type: none"> <li>• Audio/Video Lecture Recording on Desktop/Laptop Using Cam Software (PPT, Screen Recorder, etc)</li> <li>• Audio/Video Lecture Recording, Editing, Creating in Mobile phone using various (PPT, Screen Recorder, etc)</li> </ul> </div>	 <div style="background-color: #0056b3; color: white; padding: 5px;"> <p><b>Active Collaboration</b></p> <ul style="list-style-type: none"> <li>• Collaboration and Collection of Assignments using Google Forms</li> <li>• Active Feed Back/Feedback Assessment through Google Forms using Certificate</li> </ul> </div>	 <div style="background-color: #0056b3; color: white; padding: 5px;"> <p><b>Online Tools for Teaching/ Writing/ Assessment</b></p> <ul style="list-style-type: none"> <li>• Google apps (Google Meet, etc, etc)</li> <li>• Creation of Educational YouTube Channel and uploading Videos</li> <li>• (etc) Streaming on YouTube/Facebook &amp; using QR Code Software</li> </ul> </div>
 <p><b>Dr. A. G. Sarap</b> Course Coordinator</p>	 <p><b>Prof. R. B. Ghyalkar</b> Course Coordinator</p>	 <p><b>Dr. H. S. Malpani</b> Course Coordinator</p>	 <p><b>Prof. S. R. Jaiswal</b> Course Coordinator</p>

**Please Note:**

- Participants have to follow this schedule.
- It is a digital resource; you may access it multiple times till your satisfaction and understanding.
- Certificate will issue to the participants within 10 days after completion of program.

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### Innovative activities of RLT-SOC (Sky Observation Club)

The Sky Observation Club of Shri R.L.T. College of Science, Akola (RLT-SOC) is a college-level organization working for amateur Sky lover students and Astronomy interested persons. SOC is an initiative by the college where different topics in general astronomy are and will be discussed with a view to enlighten, generate curiosity and inspire young minds of our science students to contribute the understanding of world around us.

#### 'Astronomical Gallery'

Astronomical Gallery is one of the major attractions of SOC. Visitors including parents, school and college students observe the colourful graphics of various astronomical events, telescope, tools of astronomy including star dials, solar system and other models. Visit to gallery definitely increases their interest towards study of astronomy.



'Astronomical Gallery' having astronomical instruments such as A telescope "Sky watcher-8 inch flex Dobsonium", Two Binoculars (7X50 and 7X35), Star Dials (English & Marathi), Green Laser Beam etc.



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Astronomical Gallery' set up under guidance of Technical Advisor of SOC, Dr. Nitin K. Oke (M.Sc. Maths; NET; Ph.D. from Syracuse University, U.S.A) An alumna of our college. He is a well-known NASA Educator and listed Sky Observer by federation of Amateur Astronomer Association (AAA).

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Demonstration of astronomical instruments to the school students



Frequent visits of SOC student members to astronomical gallery



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Awareness program about Astronomy: To create interest in space science



Mr. Shailesh R. Jaiswal, coordinator of SOC, Delivered Guest Lecture on 'THE COSMOS' dated 18/12/2018 in NSS camp of Shri R.L.T. college of science at gram Apoti Khurd (Apatapa).



Mr. Shailesh R. Jaiswal, coordinator of SOC, delivered Lecturer on 'TO KNOW OUR UNIVERSE' on 13/03/2019 in EUREKA one-day workshop for school teachers and students which is organized by Shri R.L.T. College of science and Akola District Science Forum.

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



On the occasion of National Science Day on 28<sup>th</sup> February 2020, **Mr. Bhushan Gondachwar, volunteer** of Sky Observation club delivered a speech on “**Astronomy**” at Radhabai Sarda Arts, Commerce and Science College, Anjangaon surji Dist. Amravati.

**Night sky observation sessions**

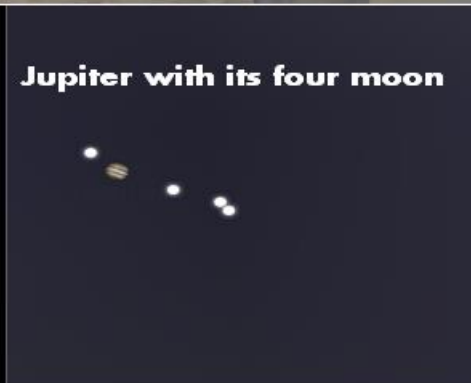
SOC provided many students their first look through an astronomical telescope. Sky observers realized their place in the universe and thereby engaged a personal sense of wonder and discovery. It promotes global citizenship and pride in our home planet, mother Earth.



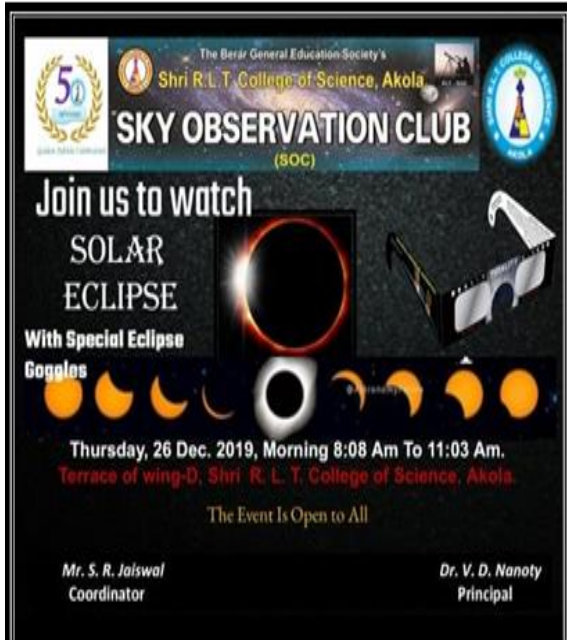
**STAR GAZING PROGRAM AT NIGHT**



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



OBSERVED MOON AND JUPITER VIA TELESCOPE



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Social Awareness Programme for Solar Eclipse

Sky Observation Club (SOC) under the department of Physics, Shri R. L. T. College of Science, Akola in collaboration with ASEEMIT Space & Environment Center, MITE Education Foundation Pune has successfully conducted *Social Awareness Programme for Solar Eclipse*. The club was taken awareness programme in 20 schools of Akola regions from 17<sup>th</sup> December to 26<sup>th</sup> December 2019 under the guidance of Prof. S. R. Jaiswal. The video clips and PPTs were shown to nearly 1350 students from schools and institute which are provided by ASEEMIT Space & Environment Center, MITE Education Foundation Pune.



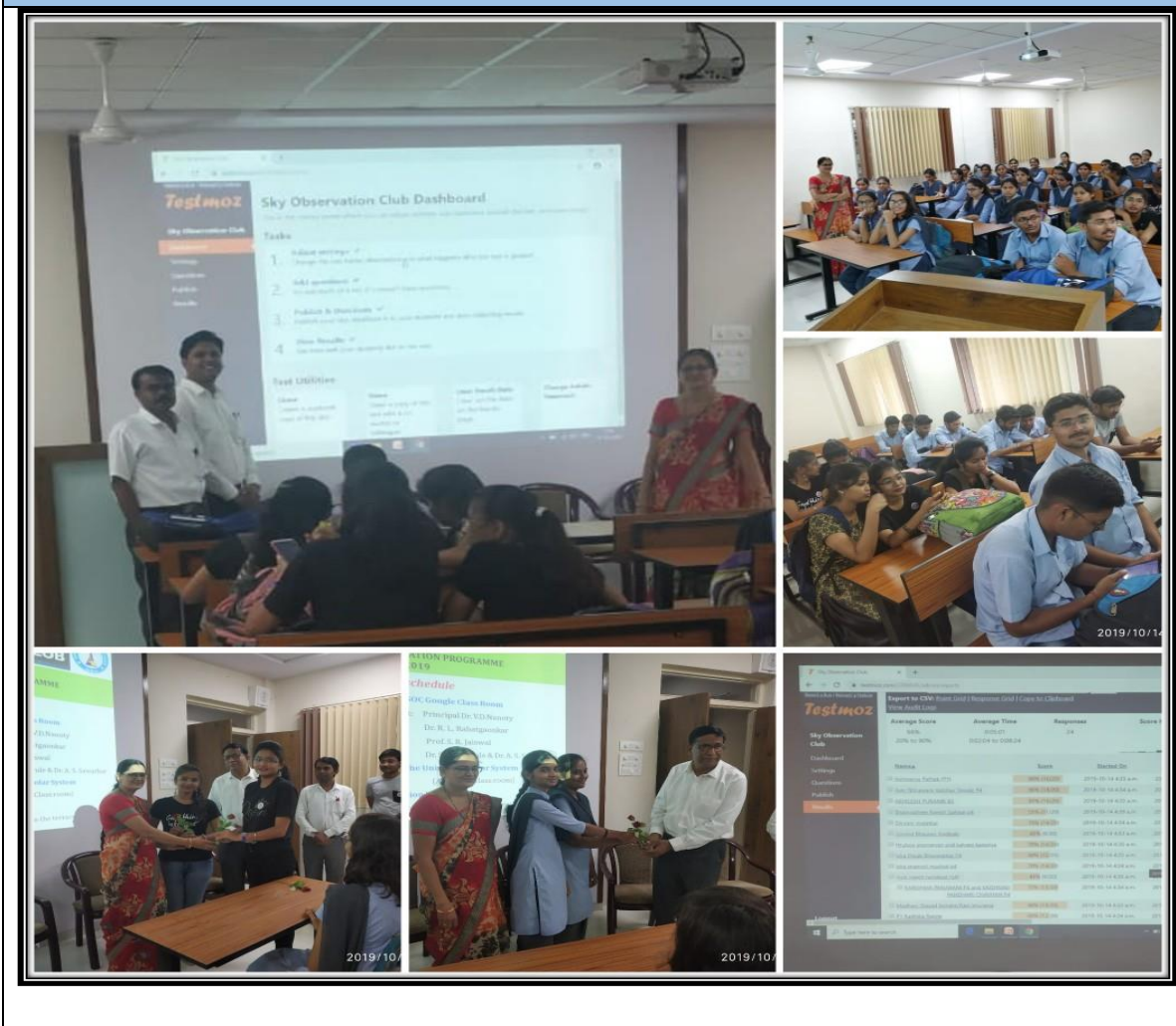


## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Volunteer of Sky Observation club worked hard to conduct  
Social Awareness Programme for Solar Eclipse

### Online MCQs test on Astronomy



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

**Sky Observation Club and Diploma In Astronomy**

Sky observation Club in collaboration with the Department of Physics has also conducted a “Diploma Course in Astronomy” under the Department of Lifelong Learning and Extension Services, Sant Gadge Baba Amravati University, Amravati. Shri S. R. Jaiswal has worked as a coordinator of the course. A total of 29 students were admitted to the course. The course has been conducted online/offline mode by Shri S. R. Jaiswal and covered 200 hours of teaching (Theory + Practical).



Classroom teaching



Practical sessions with Night Sky watching



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Astronomy awareness program at adopted village Apoti

### Outcome of RLT-SOC

**Activities of SOC facilitate a wonderful network by connecting amateur astronomers, educators, people, school and college students together for spreading scientific temper among Society.**

### ➤ **District Level Teacher coordinators Workshop for Avishkar (19/09/ 2019)**

#### **OBJECTIVES:**

1. To motivate the Students for Research activities.
2. To Develop and Nourish the Research culture among the teachers and students.
3. To Provide the Platform for the innovative concept of the students.
4. To develop thinking and creativity among the student

**METHODOLOGY:** Sant Gadge Baba Amravati University, Amravati every year organizes the Research Festival Avishkar for the students of U.G., P.G., Post P.G., and teachers perusing M.Phil. Ph.D. to Promote the research culture among the students there is an organization of Avishkar Festival. For this, there is the organization of the 14th Intercollegiate Research Convention, Teacher Coordinators Workshop on 19th Sept. 2019 at Shri R.L.T. College of Science, Akola. There were 13 teacher coordinators and more than 200 students registered for the event. The resource persons explained all the detailed information about the research projects, how to select the Project, and the different evaluation processes of the Avishkar competition was explained in four technical sessions. Dr. D.T. Ingole, Director of Innovation and Incubation linkages center, S.G. B. Amravati University, Amravati was the Chief Guest for the valedictory function of the workshop.

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

- OUTCOMES:**
1. Total 13 students and 200 students get benefitted from this workshop.
  2. As a result of this workshop a huge response is received for the Research Festival Avishkar.
  3. 11 Students from our college get selected for the University level Competition.
  4. Two Students were Awarded color coats and represented the University at the inter-university competition.

### Teacher coordinators Workshop for Avishkar: A Research Festival

 <p><b>SANT GADGE BABA AMRAVATI UNIVERSITY,</b> The Bharat General Education Society's <b>Shri R. L. T. College of Science, Akola</b> (Re-accredited with 'A' Grade by NAAC with CGPA 3.12)</p> <p style="text-align: center;"><b>THURSDAY, 19 SEPTEMBER 2019</b></p> <p style="text-align: center;"><b>SCHEDULE OF WORKSHOP</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Registration</td> <td style="width: 40%;">-&gt; 10.30am to 11.00am</td> </tr> <tr> <td>Inaugural Function</td> <td>-&gt; 11.00am to 11.30am</td> </tr> <tr> <td>Inaugurator</td> <td>-&gt; Dr. D. Y. Chacherkar Associate Prof. Department of Commerce S.G.B.A.U. Amravati</td> </tr> <tr> <td>Chairman</td> <td>-&gt; Adv. Motesinghi Mohata Hon. Secretary, The B.G.E. Society Akola.</td> </tr> </table> <p><b>SESSION I</b> <b>DR. D. Y. CHACHERKAR</b> :- 11.30am to 12.30pm Associate Professor, Department of Commerce S. G. B. A. U. Amravati.</p> <p><b>SESSION II</b> <b>DR. P. A. GAWANDE</b> :- 12.30pm to 1.30pm Associate Professor, Department of Botany S. G. B. A. U. Amravati.</p> <p style="text-align: center;"><b>LUNCH BREAK</b> :- 1.30pm to 2.30pm</p> <p><b>SESSION III</b> <b>DR. R. D. SARODE</b> :- 2.30pm to 3.30 pm Assistant Professor in Lib. &amp; Information Sci. S.G.B.A.U. Amravati</p> <p><b>SESSION IV</b> <b>DR. Z. H. KHAN</b> :- 3.30pm to 4.30 pm Former Head Department of Biochemistry Shri Shivaji College, Akola.</p> <p><b>VALEDICTORY FUNCTION</b> :- 4.30PM to 5.00PM</p> <p><b>PRISIDENT</b> :- <b>DR. V. D. NANOTY</b> Director, Innovation Incubation &amp; Linkage Center SGBAU Amravati</p> <p><b>CHIEF GUEST</b> :- <b>DR. D. T. INGOLE</b> Director, Innovation Incubation &amp; Linkage Center SGBAU Amravati</p>	Registration	-> 10.30am to 11.00am	Inaugural Function	-> 11.00am to 11.30am	Inaugurator	-> Dr. D. Y. Chacherkar Associate Prof. Department of Commerce S.G.B.A.U. Amravati	Chairman	-> Adv. Motesinghi Mohata Hon. Secretary, The B.G.E. Society Akola.	  <p><b>14 वीं जिला स्तरीय अविष्कार शिक्षक समन्वयक कार्यशाला को उत्सर्पूत प्रतिसाद</b></p> <p>कोला जिल्हातील 14 जिल्हा स्तरीय अविष्कार शिक्षक समन्वयक कार्यशाला कोला जिल्हातील शिवाजी कॉलेज ऑफ सायन्स, अकोला येथे आयोजित करण्यात आले होते. या कार्यशाळेचे उद्घाटन डॉ. डी. य. चाचेकर यांनी केले. या कार्यशाळेचे अध्यक्ष डॉ. व. डी. नानोटी यांनी होते. या कार्यशाळेचे संचालक डॉ. डी. टी. इंगोले यांनी होते. या कार्यशाळेचे संचालक डॉ. डी. टी. इंगोले यांनी होते. या कार्यशाळेचे संचालक डॉ. डी. टी. इंगोले यांनी होते.</p>
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<p>Web-link: <a href="https://www.rltsc.edu.in/2019/09/23/avishkar-activity/">https://www.rltsc.edu.in/2019/09/23/avishkar-activity/</a></p>									

### ➤ Organization of District level intercollegiate research festival of SGB Amravati University, Amravati: AVISHKAR -2019

The event was organized at shri R.L.T. College of Science, Akola on 10th January 2020. Avishkar is an intercollegiate research festival which provide platform for research talent of the students at the university level. It also aims to inculcate research culture and original thinking as essential in the age of openness and globalization for knowledge-based society. Total 62 posters and models from five subjects were registered for the event from above subjects from different colleges from Akola District. Each posters and models were presented by two or three students. Total 125 students had directly participated in the event and 150 more students visited posters and models from various colleges. Hon. D.T. Ingole, Director



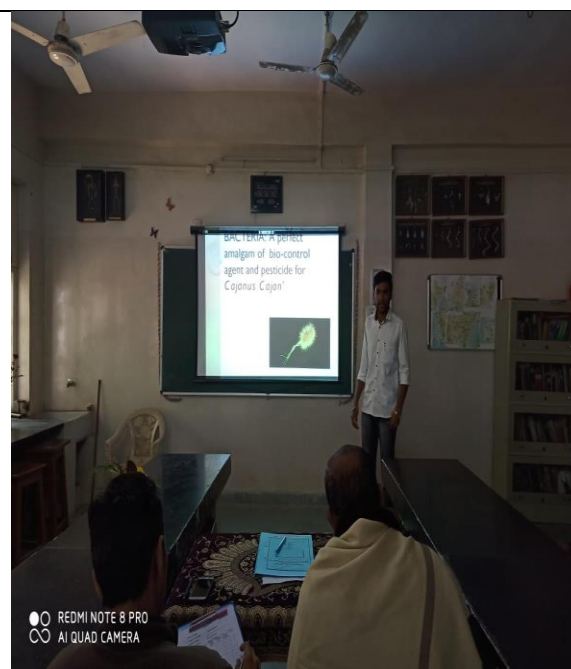
## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Incubation and Innovation & linkage centre, SGB Amravati University, Amravati inaugurated the festival. Hon. R. B. Heda, President The B.G.E. Society, Akola presided over the function. Hon. Adv. Motisingh Mohta was the Chief Guest for the function. Introductory remarks were express by Dr. Poonam Agrawal, District coordinator of Akola District. Welcome speech was delivered by Dr, V.D. Nanoty, Principal, Shri R.L.T. College of Science, Akola, Dr. Sudhir Kochale conducted the Programme and Vote of thanks were proposed by Dr. A.G. Sarap. Hon. V.D. Nanoty, Principal Shri R.L.T. College of Science, Akola was the president for Valedictory function. Dr. S.B. Tadam Conducted the valedictory and Dr. Kavita Heda proposed vote of thanks. Finally 20 entries of Researches from Amravati district were selected for University level Avishkar-2019. The overwhelming responses to this science fest, boosts our moral and encourage us to organize, the similar event in future also. The response of the students to this festival indicates that the youth are having the many innovative and creative ideas and by this festival to exhibit their innovations and ideas

**Outcomes:** 1. Total 125 students of Sant Gadge Baba Amravati University, Amravati get benefitted by this Research Festival.

2. As a Result of this workshop a huge response is received for the Research Activity from our college.

### Organization of District level intercollegiate research festival of SGB Amravati University, Amravati: AVISHKAR -2019



Oral and Poster presentation of research by participants

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



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## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Student's participation in AVISHKAR- Research Convention

Each individual has his own interest, talent and abilities. Avishkar is a research festival organised every year in all universities. Number of students from our college participated and get selected to present their innovative research for District, University, as well as State level. All faculty members guided students to present their research project in research festival Avishkar at various levels.

**Web link-** [https://www.rltsc.edu.in/research-extension/#Avishkar\\_Reports](https://www.rltsc.edu.in/research-extension/#Avishkar_Reports)

AVISHKAR- 2017			
List of students selected for District Level AVISHKAR- 2017 competition (UG-Level)			
Level	UG	Category	Humanities, Language, and Fine Arts
Sr. No	Name of Students	Class/Batch	Topic
1	Rushikesh Nimkarde	B.Sc.II (B5)	Eco friendly immersion of POP Idols
2	Yoshita K. Veera	B.Sc II (P4)	River Linkage- Noble Approach towards modern India
Level	UG	Category	Commerce, Management and Law
Sr. No	Name of Students	Class/Batch	Topic
3	Prajakta V.Deshmukh	B.Sc. II (B2)	Diet management for Physical Fitness
Level	UG	Category	Agriculture and Animal Husbandry
Sr. No	Name of Students	Class/Batch	Topic
4	Jayantika Sharma	B.Sc. II (P4)	Banana waste to develop an efficient insulating material
5	Priya Bhaltilak	B.Sc.II(B1)	Seed germination promoting activity of some medicinally important compound
Level	UG	Category	Medicine and Pharmacy
Sr. No	Name of Students	Class/Batch	Topic
6	Shivani Tiwari	B.Sc.III (B1)	Extraction of Essential Oil from Orange peel
7	Apurva R. Shaha	B.Sc.II (B3)	Antimicrobial activity of Cow urine against MDR strain
Level	UG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
8	Priya Wankhade	B.Sc.III (P4)	Comparative study of water pollution due to Idol immersion in Pinglakshi lake
9	Prutha Agnihotri	B.Sc. II (B1)	The efficiency of bioactive molecules as insecticidal agents
List of students who were selected for the University Level AVISHKAR -2017 Competition, who can directly participate in University			
Level	UG	Category	Engineering and Technology
Sr. No	Name of Students	Class/Batch	Topic
1	Yash Vidyasagar	B.Sc.II (P1)	Robotic Arm controlled by hand gesture

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### List of students selected for District Level AVISHKAR- 2017 competition (PG-Level)

Level	PG	Category	Humanities, Language and Fine Arts
Sr. No	Name of Students	Class/Batch	Topic
1	<b>Kanchan Mangatani</b>	M.Sc.II(Micro)	A study of Self defence and self dependent: Problems in Woman in Modern Era
2	<b>Mrunali Kashid</b>	M.Sc.II(Micro)	Healing herbs and spices
Level	PG	Category	Commerce, Management and Law
Sr. No	Name of Students	Class/Batch	Topic
3	<b>Insiyah D. Vora</b>	M.Sc.II (Maths)	Financial issues of non self sufficient Widows and Divorce Woman
4	<b>Shruti G. Joshi</b>	M.Sc.II(Micro)	AADHAR-India's unique innovation for robust Indian Economy
Level	PG	Category	Agriculture and Animal Husbandry
Sr. No	Name of Students	Class/Batch	Topic
5	<b>Varsha D. Yennewar</b>	M.Sc.II(Chem)	Preparation of Herbal tablets for food preservation
6	<b>Manisha U.Dhore</b>	M.Sc.II(Micro)	Composting of Nirmalya (flowers and leaves)
Level	PG	Category	Medicine and Pharmacy
Sr. No	Name of Students	Class/Batch	Topic
7	<b>Dnyaneshwari D. Hatolkar</b>	M.Sc.II(Micro)	Antibacterial activity of Aegle marmelos
8	<b>Ruchita D.Dhole</b>	M.Sc.II(Micro)	Spices against MRSA
Level	PG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
9	<b>Shreya N Relkar</b>	M.Sc.II(Micro)	Thalassemia
10	<b>Harsha Agrawal</b>	M.Sc.II(Micro)	Flower processing for Industrial Utilisation



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### List of the students selected for University Level AVISHKAR Competition (UG Level)

Level	UG	Category	Medicine and Pharmacy
Sr. No	Name of Students	Class/Batch	Topic
1	Shivani Tiwari	B.Sc.III (B1)	Extraction of Essential Oil from Orange peel
2	Apurva R. Shaha	B.Sc.II (B3)	Antimicrobial activity of Cow urine against MDR strain
Level	UG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
3	Priya Wankhade	B.Sc.III (P4)	Comparative study of water pollution due to Idol immersion in Pinglakshi lake

Following students directly participate in AVISHKAR Competition at the UG level under Category of **Engineering and Technology**

Level	UG	Category	Engineering and Technology
Sr. No	Name of Students	Class/Batch	Topic
1	Yash Vidyasagar	B.Sc.II (P1)	Robotic Arm is controlled by hand gesture

**Overall, 14 students participated in University Level AVISHKAR 2017 Competition  
(13 Students Selected from District Level Competition and One student's direct entry)  
(3+1 from UG and 10 from PG Level)**

### List of the students selected for University Level AVISHKAR-2017 Competition (PG Level)

Level	PG	Category	Humanities, Language and Fine Arts
Sr. No	Name of Students	Class/Batch	Topic
1	Kanchan Mangatani	M.Sc.II(Micro)	A study of Self defence and self dependent: Problems in Woman in Modern Era
2	Mrunali Kashid	M.Sc.II(Micro)	Healing herbs and spices
Level	PG	Category	Commerce, Management and Law
Sr. No	Name of Students	Class/Batch	Topic
1	Insiyah D. Vora	M.Sc.II (Maths)	Financial issues of non self sufficient Widows and Divorce Woman
2	Shruti G. Joshi	M.Sc.II(Micro)	AADHAR-India's unique innovation for robust Indian Economy

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Level	PG	Category	Agriculture and Animal Husbandry
Sr. No	Name of Students	Class/Batch	Topic
1	Varsha D. Yennewar	M.Sc.II(Chem)	Preparation of Herbal tablets for food preservation
2	Manisha U.Dhore	M.Sc.II(Micro)	Composting of Nirmalya (flowers and leaves)
Level	PG	Category	Medicine and Pharmacy
Sr. No	Name of Students	Class/Batch	Topic
1	Dnyaneshwari D. Hatolkar	M.Sc.II(Micro)	Antibacterial activity of Aegle marmelos
2	Ruchita D.Dhole	M.Sc.II(Micro)	Spices against MRSA
Level	PG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
1	Shreya N Relkar	M.Sc.II(Micro)	Thalassemia
2	Harsha Agrawal	M.Sc.II(Micro)	Flower processing for Industrial Utilisation

### List of the students selected for State Level AVISHKAR-2017 Competition (UG & PG Level)

Level	PG	Category	Humanities, Language and Fine Arts
Sr. No	Name of Students	Class/Batch	Topic
1	Kanchan Mangatani	M.Sc.II(Micro)	A study of Self defence and self dependent: Problems in Woman in Modern Era
Level	PG	Category	Commerce, Management and Law
Sr. No	Name of Students	Class/Batch	Topic
2	Insiyah D. Vora	M.Sc.II (Maths)	Financial issues of non self sufficient Widows and Divorce Woman
Level	PG	Category	Agriculture and Animal Husbandry
Sr. No	Name of Students	Class/Batch	Topic
3	Varsha D. Yennewar	M.Sc.II(Chem)	Preparation of Herbal tablets for food preservation
Level	UG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
4.	Priya Wankhade	B.Sc.III (P4)	Comparative study of water pollution due to Idol immersion in Pinglakshi lake

- Total 4 (Four) students are selected for STATE Level AVISHKAR-2017 Competition.
- Four Students got Colour Coat for University Level AVISHKAR-2017 Competition.



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### COLOUR COAT HOLDERS OF AVISHKAR 2017-18



Priya Wankhade (B.Sc. III), Kanchan Mangatani (M.Sc. II), Insiyah D. Vora (M.Sc. II) & Varsha D. Yennewar (M.Sc. II)

Selected for State Level Avishkar Competition 2017-18 from S.G.B. Amravati University, Amravati

### AVISHKAR- 2018

#### List of students selected for District Level AVISHKAR- 2018 competition

Level	UG	Category	Humanities, Language and Fine Arts
Sr. No	Name of Students	Class/Batch	Topic
1	<b>Rutvija Deshmukh</b>	B.Sc.I	Effect of Kirtan on Human Behaviour
2	<b>Ashwini Rudrakar</b>	B.Sc.III	Painting: Reflection of Imagination
Level	UG	Category	Commerce, Management and Law
Sr. No	Name of Students	Class/Batch	Topic
3	<b>Yoshita Veera</b>	B.Sc.III	Dust settler: An Economic Homemade Instrument
4	<b>Prajakta Deshmukh</b>	B.Sc.III	An Ecofriendly Ganesh Idol: A green alternative to Plaster of Paris
Level	UG	Category	Agriculture and Animal Husbandry
Sr. No	Name of Students	Class/Batch	Topic
5	<b>Miss Komal Ingale</b>	B.Sc.II	Utilization of Sericulture waste for Preparation of Compost
6	<b>Balraj Khuraniya</b>	B.Sc.III	Assessment of Ground water quality

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Level	UG	Category	Medicine and Pharmacy
Sr. No	Name of Students	Class/Batch	Topic
7	Shiwani g. Gangamwar	B.Sc.I	Tinospora cardifolia
8	Apurva Shah	B.Sc.III	Herbal Solution Remedies for Dandruff
Level	UG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
9	Pooja Waghela	B.Sc.II	Migraine Attack
10	Vasundhara Dutonde	B.Sc.III	Biodiesel preparation from Virgin

**List of student selected for University Level AVISHKAR -2018 Competition, who can directly participated in University**

Level	UG	Category	Engineering and Technology
Sr. No	Name of Students	Class/Batch	Topic
1	Mr. Akhilesh Puranik	B.Sc.I	Handmade Paper
2	Mr. Nagorao S. Fulkare	B.Sc.II	Oil Spoilage Model

### List of the students selected for State Level AVISHKAR-2018 Competition (UG & PG Level)

Level	PG	Category	Commerce, Management and Law
Sr. No	Name of Students	Class/Batch	Topic
2	Kanchan Mangtani	M.Sc. II	Waste Management
Level	UG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
5	Vasundhara Dutonde	B.Sc.III	Biodiesel preparation from Virgin

Two students of our college were selected for state level AVISHKAR competition organized at Gondwana University on dated 15 -16 March 2019





## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### AVISHKAR-2019

#### List of students selected for District Level AVISHKAR- 2019 competition

Level	UG	Category	Humanities, Language and Fine Arts
Sr. No	Name of Students	Class/Batch	Topic
1	Balraj Babulal Khuraniya	B.Sc.III	Cramation and its impact on the Environment
2	Lekha D. Upadhyay	B.Sc II	Child Abuse.....

Level	UG	Category	Commerce, Management and Law
Sr. No	Name of Students	Class/Batch	Topic
3	Sonal Sanjay Khelkar	B.Sc.II	Solar Power.....
4	Vaibhavi B Tople	B.Sc.II	PIL.....

Level	UG	Category	Agriculture and Animal Husbandry
Sr. No	Name of Students	Class/Batch	Topic
5	Vishvajitsinh S. Daberao	B.Sc.II	Bacteria: Biocontrol agent
6	Pooja P.Waghela	B.Sc.III	Dolichos lablab: .....

Level	UG	Category	Medicine and Pharmacy
Sr. No	Name of Students	Class/Batch	Topic
7	Nikita J. Upadhya	B.Sc.III	Preparation of Mosquito repellent herbal candle
8	Atul R. Seth	B.Sc.II	Antimicrobial Potential of Acalypha Indica

Level	UG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
9	Komal S. Ingle	B.Sc III	Dust Pollutant...
10	Anuraj G. Chauhan	B.Sc.III	Fabrication of Nano Particle

#### List of student selected for University Level AVISHKAR -2018 Competition, who can directly participated in University

Level	UG	Category	Engineering and Technology
Sr. No	Name of Students	Class/Batch	Topic
1	Rohit S. Wadkar	B.Sc.II	Light through communication
2	Vaibhav B. Sarat	B.Sc.II	Development of Phosphor for .....

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### List of students selected for University Level AVISHKAR- 2019 competition (UG)

Level	UG	Category	Humanities, Language and Fine Arts	Rank
Sr. No	Name of Students	Class/Batch	Topic	
1	<b>Balraj Babulal Khuraniya</b>	B.Sc.III	Cramation and its impact on the Environment	
Level	UG	Category	Agriculture and Animal Husbandry	Rank
Sr. No	Name of Students	Class/Batch	Topic	
2	<b>Vishvajitsinh S. Daberao</b>	B.Sc.II	Bacteria: Biocontrol agent	
Level	UG	Category	Medicine and Pharmacy	Rank
Sr. No	Name of Students	Class/Batch	Topic	
3	<b>Nikita J. Upadhyia</b>	B.Sc.III	Preparation of Mosquito repellent herbal candle	
Level	UG	Category	Pure Science	Rank
Sr. No	Name of Students	Class/Batch	Topic	
4	<b>Anuraj G. Chauhan</b>	B.Sc.III	Fabrication of Nano Particle	

### List of students selected for University Level AVISHKAR- 2019 competition (PG)

Level	PG	Category	Humanities, Language and Fine Arts	Rank
Sr. No	Name of Students	Class/Batch	Topic	
1	<b>Neha Phafat</b>	M.Sc.I	Sand Art	
Level	PG	Category	Commerce, Management and Law	Rank
Sr. No	Name of Students	Class/Batch	Topic	
2	<b>Shweta R. Rudrakar</b>	M.Sc.I	Juvenile Delinquency...	
Level	PG	Category	Agriculture and Animal Husbandry	Rank
Sr. No	Name of Students	Class/Batch	Topic	
3	<b>Shraddha G. Akhare</b>	M.Sc.II	Use of Biological made silver nanoparticle.....	
Level	PG	Category	Pure Science	Rank
Sr. No	Name of Students	Class/Batch	Topic	
4	<b>Trupti R. Ugale</b>	M.Sc.II	Comparative analysis of ambient temperature	



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### List of students selected for State Level AVISHKAR- 2019 competition

Level	PG	Category	Commerce, Management and Law
Sr. No	Name of Students	Class/Batch	Topic
	<b>Shraddha G. Akhare</b>	M.Sc.II	Use of Biological made silver nanoparticle.....
Level	UG	Category	Pure Science
Sr. No	Name of Students	Class/Batch	Topic
	<b>Anuraj G. Chauhan</b>	B.Sc.III	Fabrication of Nano Particle

**Total two students participated in state level AVISHKAR 2019-20 competition from Shri R.L.T. College of Science, Akola which was organized by University of Mumbai on January 28-31, 2020.**



<https://www.rltsc.edu.in/2020/01/21/avishkar-2020-2/>

**Web link-** [https://www.rltsc.edu.in/research-extension/#Avishkar\\_Reports](https://www.rltsc.edu.in/research-extension/#Avishkar_Reports)

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

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### ➤ **Research contribution of faculty members:**

Our staff members published their research in journals of national and international repute. They actively participated in various conferences, seminars and workshops to present their research work. Many of them worked as resource persons. Some teachers bagged prizes for best research paper presentation.

Web link- [https://www.rltsc.edu.in/research-extension/#Research\\_Reports](https://www.rltsc.edu.in/research-extension/#Research_Reports)

### ➤ **MoUs to promote research culture:**

College authority has signed functional MoUs with many institutions of national, international importance and industries to promote research culture by organizing various activities.

Web link- [https://www.rltsc.edu.in/research-extension/#Memorandum\\_of\\_Understanding\\_MoU](https://www.rltsc.edu.in/research-extension/#Memorandum_of_Understanding_MoU)

### ➤ **State Level Conference of Innovative Minds**

Shri R.L.T. College of Science, Department of chemistry is always ahead for conducting various innovative activities. In order to honour the spirit of young minds in collaboration with education office, Akola the department of chemistry organized **State level conference on innovative minds on the occasion of World Creativity and Innovation Day** on 21<sup>th</sup> April 2022. Students from various schools and colleges participated in this conference. Students who were awarded with inspire award delivered oral presentation of their innovative ideas. Total 33 oral and many projects are demonstrated by the students. Hon'ble District Collector, IAS Neema Arora madam was the inaugurator of this function. Hon'ble Adv. Motising Mohta, the president of the B.G.E. Society was the president of the function. The programme was graced by the presence of Hon'ble Dr. Suchita Patekar, Education officer of Akola district, Hon'ble Secretary Pavan Maheshwari, honorary secretary, The B.G.E. Society and Principal Dr. V.D. Nanoty. More than **200 students** from various school and colleges participated in this conference.

On the same occasion, P.G. Department of Chemistry had published online **Innovation and Creativity magazine** at the hands of Hon'ble District Collector of Akola District. 36 students of P. G. Department of Chemistry gave one Innovative theme/ Idea. These concepts after compelling in the form of magazine was published on 21<sup>th</sup> April 2022. Dr. Poonam Agrawal was the coordinator and Editor of this magazine and Dr. Kavita Heda and Dr. Aashish Sarap are the member of editorial board.

**Web-link** – 1. <https://www.rltsc.edu.in/wp-content/uploads/2022/07/Innovation-Day.docx>



# CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

## State Level Conference on Innovative Minds Photographic evidences

शिक्षणाधिकारी (माध्य.) कार्यालय, जिल्हा परिषद, अकोला  
व  
श्री रा. ल. तो. विज्ञान महाविद्यालय, अकोला  
यांचे संयुक्त विद्यमाने आयोजित

राज्यस्तरीय बालवैज्ञानिक परिषद (इन्स्पायर अवार्ड) दि. २१ एप्रिल २०२२  
(International Creativity & Innovation Day)

॥ निमंत्रण ॥

मा. महोदय,

शिक्षणाधिकारी (माध्य.) कार्यालय, जिल्हा परिषद, अकोला व श्री रा. ल. तो. विज्ञान महाविद्यालय, अकोला यांचे संयुक्त विद्यमाने 'राज्यस्तरीय बालवैज्ञानिक परिषद (इन्स्पायर अवार्ड)' कार्यक्रम आयोजित करण्यात आलेला आहे. तरी या कार्यक्रमास आपण सादर आमंत्रित आहात.

**प्रमुख अतिथी**

<b>मा.श्री. सौरभ कटीयार, भा.प्र.से.</b> मुख्य कार्यकारी अधिकारी, जि.प., अकोला	<b>मा. निमा अरोरा, भा.प्र.से.</b> जिल्हाधिकारी, अकोला
<b>मा.डॉ. शिवलींग पटवे</b> शिक्षण उपसंचालक, अमरावती विभाग, अमरावती	<b>मा.अॅड. मोतीसिंह मोहता</b> अध्यक्ष, दि.बी.जी.ई. सोसायटी, अकोला
<b>मा.डॉ. सुचिता पाटेकर</b> शिक्षणाधिकारी (माध्य.), जि.प., अकोला	<b>मा.श्री. विजयकुमार तोष्णीवाल</b> वरिष्ठ उपाध्यक्ष, दि.बी.जी.ई. सोसायटी, अकोला
<b>मा.डॉ. रविंद्र जैन</b> कनिष्ठ उपाध्यक्ष, दि.बी.जी.ई. सोसायटी, अकोला	<b>मा.श्री. पवन एन. माहेश्वरी</b> सचिव, दि.बी.जी.ई. सोसायटी, अकोला
<b>मा.डॉ.अभिजीत परांजपे</b> सहसचिव, दि.बी.जी.ई. सोसायटी, अकोला	<b>मा.डॉ. विजय नानोटी</b> प्राचार्य, श्री रा.ल.तो. विज्ञान महाविद्यालय, अकोला

**दिनांक व वेळ :** गुरुवार, दि. २१.०४.२०२२ सकाळी ९.३० वा.  
**स्थळ :** श्री रा. ल. तो. विज्ञान महाविद्यालय, अकोला

**आयोजन समिती**

<b>डॉ. पूनम अग्रवाल</b> रसायनशास्त्र विभाग प्रमुख	<b>श्री. प्रमोद टेकाडे</b> जिल्हा विज्ञान पर्यवेक्षक, जि.प., अकोला
<b>डॉ. रविंद्र भास्कर</b> समन्वयक, जिल्हा विज्ञान मंच, अकोला	<b>डॉ. ए.जी. सरप</b> सहा. प्राध्यापक, श्री रा. ल. तो. विज्ञान महा, अकोला



Welcome speech by  
Principal Dr. V.D. Nanoty



Inaugural speech by Hon'ble  
District Collector, IAS, Nema Arora



Guidance by Dr. Suchita Patekar,



Presidential address by Adv. Motisinghji  
Mohta, Hon'ble president, The B.G.E. Society



**CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES**

Education Officer, Z.P. Akola



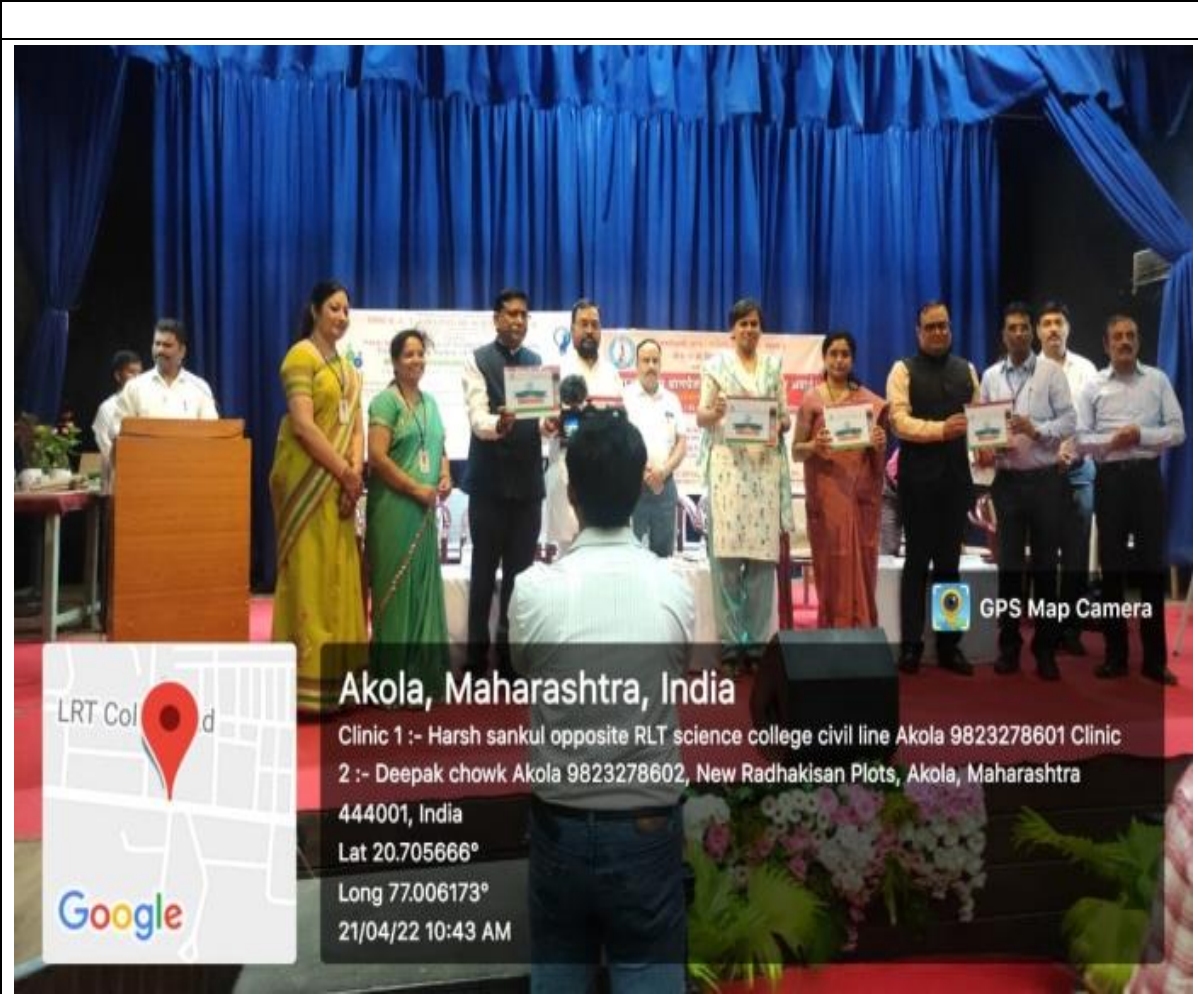
Innovative projects presentations by Children scientists



Felicitation of children scientists and their mentor teachers



**CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES**



Publication of 'Innovation and Creativity Magazine' with the hands of Hon'ble District Collector, IAS, Neema Arora and dignitaries on the Dias



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Felicitation of Young Scientists:

Crystal Club premier club of Department of Chemistry of Shri R.L.T. College of science. Akola is always ahead of various research activities. It always takes a lead for various innovative ideas and concept in the field of scientific research. This time also crystal club took this opportunity to felicitate the students of Akola district who got selected for the State level competition of science Project in National Children Science congress. To create awareness, interest and to motivate the students the department of chemistry took this initiation and felicitated the young Scientists.

Three groups of students got selected from Akola district for National Children Science Congress. These students are from Prabhat Kids School of Akola. The name of the students is Anvi Jaybhaye, Aayush Raut, Aarya Pande and group.

The felicitation and guidance programme were organized by Shri R.L.T. College of Science Akola in collaboration with, National Children's Science Congress (NCSC), Akola on 4<sup>th</sup> January 2022. These children were awarded by memento and certificate at the hands of Principal Dr. V.D. Nanoty and Shri Uday Vaze, Founder of Shrushti Vaibhav. Dr. Poonam Agrawal, Head department of Chemistry, organizer of this event, Dr. Kavita Heda and Dr. Aashish Sarap faculty of chemistry department were present for this programme. This programme was conducted in the gracious presence of the principal and teachers of various school of Akola district. Students of various schools and students of M.Sc. Chemistry were present for this programme. At this occasion the selected students have given their presentation of research topic and the teachers from shri R.L.T. College of Science Dr. Archana Sawarkar, Dr. Rashmi Joshi, Dr. Poonam Agrawal, Shri R.D. Choudhary, Dr. Nisha Varade guided them for the higher-level competition.

The motto behind this organization is to nurture the culture of research among the young minds, to support the scientific temperament and to generate innovative spirit among the school and college students. Principal Dr. V.D. Nanoty congratulated the students, teachers and parents for this grand success.

**Web-link:** <https://www.rltsc.edu.in/wp-content/uploads/2022/07/Report-of-felicitations-of-Young-Scientists.docx>



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Felicitation of Young Scientists

Photographic evidences



**Akola, Maharashtra, India**  
 P244+F83, New Radhakisan Plots, Akola, Maharashtra 444001, India  
 Lat 20.706152°  
 Long 77.005915°  
 04/01/22 02:13 PM

Introductory speech by Mr. Uday Vaze, Coordinator of National Children's Science Congress (NCSC), Akola



**Akola, Maharashtra, India**  
 P244+F83, New Radhakisan Plots, Akola, Maharashtra 444001, India  
 Lat 20.706054°  
 Long 77.005865°  
 04/01/22 02:37 PM



**Akola, Maharashtra, India**  
 P244+F83, New Radhakisan Plots, Akola, Maharashtra 444001, India  
 Lat 20.706085°  
 Long 77.005888°  
 04/01/22 02:29 PM

Young scientists presenting their innovative research projects

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Discussion session



Felicitation of young scientists



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Felicitation of young scientist's supervisors



Happy faces of young scientists and their parents

**Web-link:** <https://www.rltsc.edu.in/wp-content/uploads/2022/07/Report-of-felicitation-of-Young-Scientists.docx>

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Research extension by Staff members

Many teachers of the college worked as examiners as well as resource persons for Local, Taluka, District and State level science exhibitions organized by the education department. Also acts as jury members for various scientific competitions and delivered scientific talks at various places.

#### Research extension by Staff members

##### Only few evidences

Staff members worked as jury members for various scientific competitions



Dr. Archana Sawarkar working as a jury member for science exhibition



Dr. Archana Sawarkar working as a jury member for science poster exhibition  
at S.K. College, Akola



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Dr. Archana Sawarkar working as a jury member for science meet organized by Dept of Education, Z.P. Akola



Dr. Poonam Agrawal and Dr. Archana Sawarkar working as jury member for Amravati regional science meet

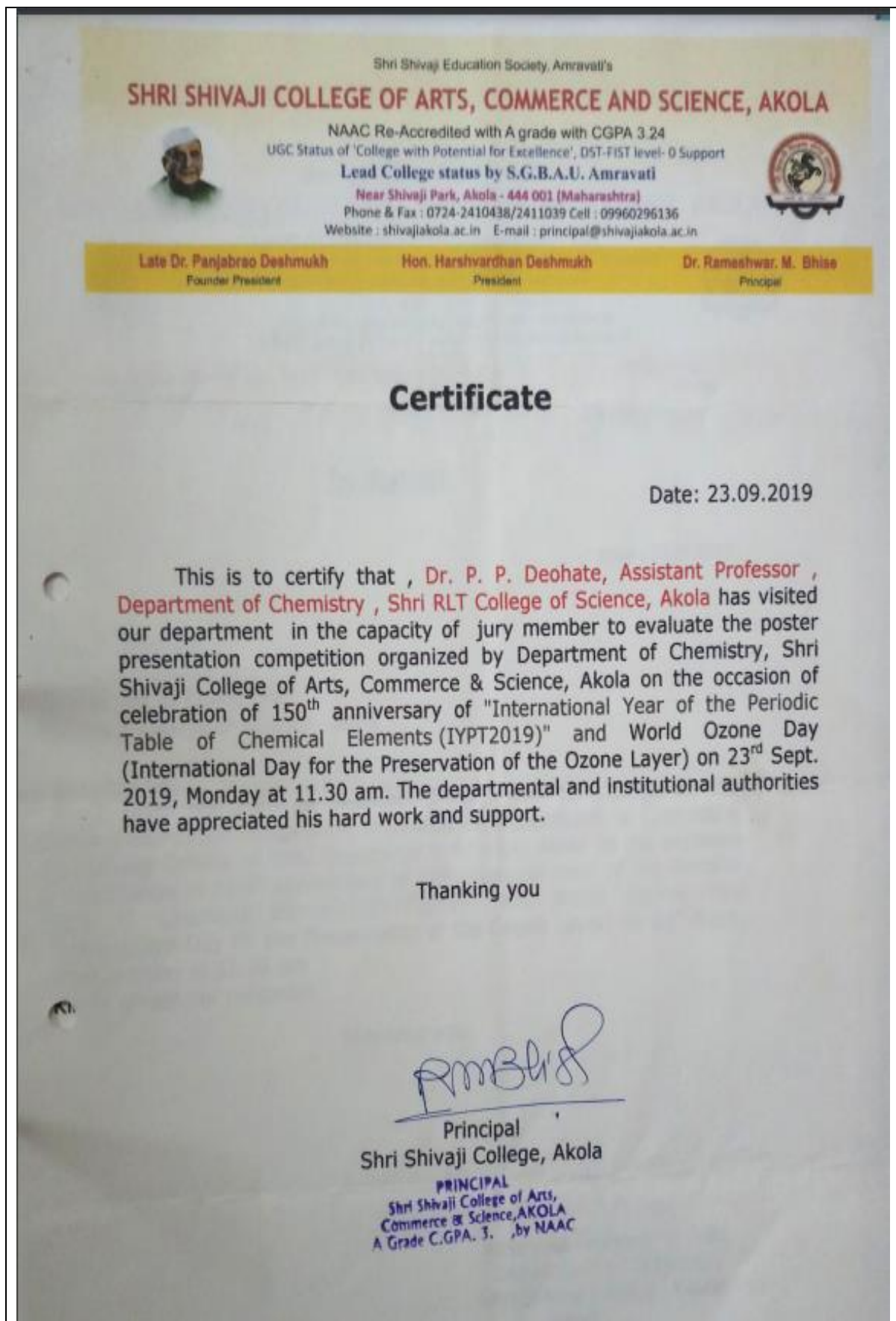
CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Dr. P.P. Deohate as jury member



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Pratibha Shikshan Prasarak Mandal, Januna's

**Ghulam Nabi Azad Arts, Commerce and Science College,  
Barshitakli, Dist. Akola**

NAAC Reaccredited 'A' Grade with CGPA 3.06

**Dr. Madhukar R. Pawar,**  
Principal

Website-www.gnacollege.com

Email-principalgnabt@gmail.com

M.Com. M.Phil, B.Ed, Ph.D. D.Litt.

Mobile No. 9823364032

No. G.N.A. / /2020

Date: 10 / 02 /2020

**CERTIFICATE**

To,

Dr./ Prof. P.P. Deohate

Dept. of chemistry, R.L.T. science  
college Akola.

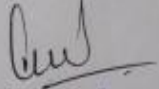
Respected Sir / Madam ,

This letter is an opportunity to express our sincere gratitude. It was a pleasure to have you as a Scorer/Judge at University level Chemi.Quiz competition for B.Sc.1<sup>st</sup> students organized by our college in collaboration with Amravati University Chemistry Teachers Association (AUCTA) on Monday, 10<sup>th</sup> February 2020.

We are heartly grateful for your time and cooperation.

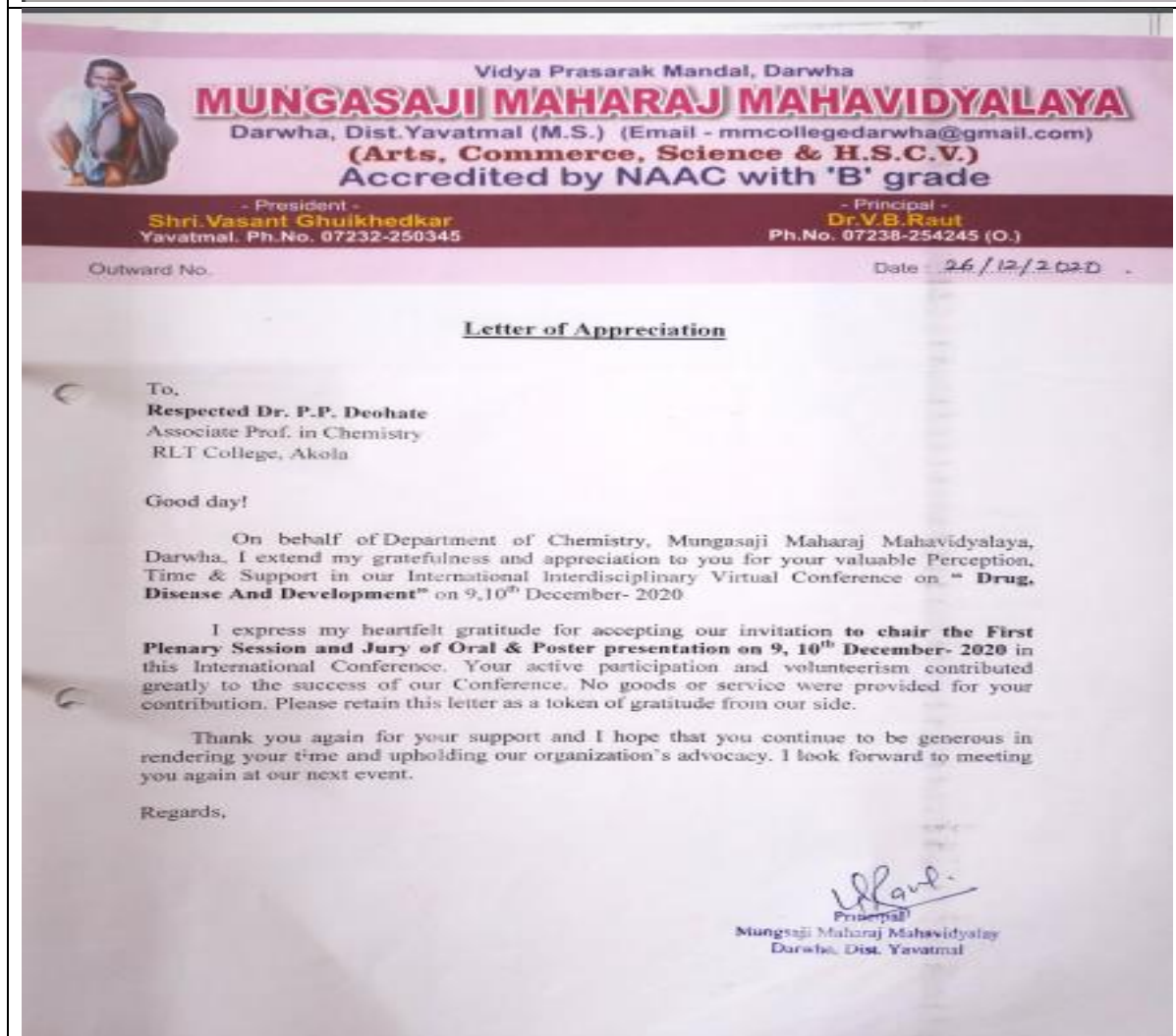
Thank You !

Date : 10-02-2010

  
**Principal,**  
Ghulam Nabi Azad Arts,  
Comm. & Science College,  
Barshitakli, Dist.Akola



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Accredited by NAAC with "A" Grade (very good) with a CGPA of 3.13  
SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI  
**SHRI SHIVAJI SCIENCE COLLEGE**  
College with Potential for Excellence  
**Shivaji Nagar, Morshi Road, Amravati -444603 M.S.**  
Dr. Panjabrao Alias BhausahebDeshmukh  
President: Shri HarshavardhanPratapsinhDeshmukh  
Principal : Dr. G.N.Chaudhari  
E-mail : shivajiscamt.office@gmail.com Website :www.shivajiscamt.org  
Off. : (0721)2660855; Res.(0721)2551400,2553130, Fax:(0721)2665485

Ref.No. SC/ /2021

Date: 27 /08 /2021

To,  
Dr. P. P. Deohate,  
Associate Professor,  
Department of Chemistry,  
R. L. T. Science College  
Akola.

Respected Sir,



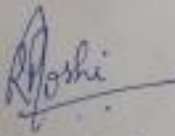
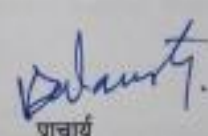
This letter of appreciation comes your to convey our sincere gratitude and deep gratefulness to you. From your busy scheduled, you took time and attended online intercollegiate seminar competition for B.Sc-II year students on the topic of Chemistry for Sem-IV students. We are grateful towards you for judging seminars of the students, guiding and inspiring them on 26<sup>th</sup> and 27<sup>th</sup> August 2021. We are very happy to mention that our students and enormously benefited from the deep insights imparted to them by the teacher par-excellence of your experience, eminence and enterprise. We look forward to having the similar favor you in future as well, in the interest of our students.

With many grateful thanks and sincere regards.

  
Off. Principal  
Shri Shivaji Science College  
Shri. Shivaji Science College  
Amravati




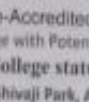
## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES


संत गाडगेबाबा अमरावती विद्यापीठ, अमरावती <b>राष्ट्रीय सेवा योजना</b> (N.S.S.) 	दि.बी.जी.ई. सोसायटी, अकोला द्वारा संचालित <b>श्री रा.ल.तो. विज्ञान महाविद्यालय, अकोला</b> Shri R.L.T. College of Science, Akola Civil Lines, Akola (Maharashtra) 444001 Recognized by Govt. of Maharashtra & Permanently Affiliated to S.G.B. Amravati University, Amravati 	
Ph. No. : (0724) 2415480 Fax - : (0724) 2415650 Post Box No. - 60	NAAC REACCREDITED GRADE 'A' WITH CGPA - 3.12	COLLEGE CODE - 210 Website : www.rltsc.org E-mail: principal@rltsc.org
<b>डॉ. समाधान मुंडे</b> कार्यक्रम अधिकारी	<b>प्राचार्य डॉ. विजय नानोटी</b> अध्यक्ष	<b>डॉ. रश्मी जोशी (सावलकर)</b> कार्यक्रम अधिकारी
संदर्भ : _____		दि. २०/०८/२०२१
<b>प्रमाण-पत्र</b>		
<p>प्रति, डॉ. प्रदीप पी. देवहाते, असोसियेट प्रोफेसर, रसायनशास्त्र विभाग, श्री रा.ल.तो.विज्ञान महाविद्यालय अकोला.</p> <p>महोदय ,</p> <p>दिनांक १५/८/२१ रोजी "आझादी का अमृत महोत्सव" व स्वतंत्रता दिवसाच्या अनुषंगाने महाविद्यालयातील रा. से. को. पथकाने एक निबंध स्पर्धेचे आयोजन केले होते. विषय होता "विज्ञान आणि तंत्रज्ञान क्षेत्रात भारताचा विकास" आणि ४३ विद्यार्थ्यांनी भाग घेतला. डॉ. प्रदीप पी. देवहाते, असोसियेट प्रोफेसर, रसायनशास्त्र विभाग, श्री रा.ल.तो. विज्ञान महाविद्यालय अकोलाह्यांनी ज्युरी म्हणून काम पहिले व मराठी व इंग्लिश भाषेतील निबंधातून प्रत्येकी एक निवडून देण्याचे कार्य केले. आपले सहकार्य असेच मिळत राहिल हि अपेक्षा. धन्यवाद.</p>		
 कार्यक्रम अधिकारी कार्यक्रम अधिकारी राष्ट्रीय सेवा योजना (N.S.S.) श्री. रा.ल.तो. विज्ञान महाविद्यालय अकोला	 प्राचार्य श्री रा.ल.तो. विज्ञान महाविद्यालय, अकोला	
	PRINCIPAL Shri R.L.T.College of Science Civil Line, Akola (M.S.)	

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Shri Shivaji Education Society, Amravati's  
**SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA**  
 NAAC Re-Accredited with A grade with CGPA 3.24  
 UGC Status of 'College with Potential for Excellence', DST-FIST level-0 Support  
 Lead College status by S.G.B.A.U. Amravati  
 Near Shivaji Park, Akola - 444 001 (Maharashtra)  
 Phone & Fax : 0724-2410438/2411039 Cell : 9960290340  
 Website : shivajiakola.ac.in E-mail : principal@shivajiakola.ac.in

  
 Late Dr. Panjabrao Deshmukh  
 Founder President

  
 Hon. Harshvardhan Deshmukh  
 President

  
 Dr. A. L. Kulkarni  
 Principal

Ref. No. SSC\AKL\ 2021-22	Index No. Sr.College : 205, Jr:01.01.004, HSVC : 01.01.903	Date : 03/03/2022
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To  
 Dr. P. P. Deohate  
 Associate Professor  
 Department of Chemistry,  
 Shri R. L. T. College,  
 Akola.

Subject : Letter of Thanks.

Respected Sir,

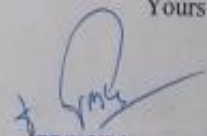
We have no words to describe your special efforts in judging College Level Model Competition on the occasion of National Science Day 2022 organized by Department of Chemistry, Shri Shivaji College of Arts, Commerce and Science, Akola, on 03/03/2022. You have inspired, motivated and educated our students. I here by wish to express my sincere gratitude towards you for your guidance to our students and cooperation to make this event a success.

Thanks for your graceful presence.

*KNR*

Head  
 Department of Chemistry  
 Shri Shivaji College, AKOLA

Yours

  
 PRINCIPAL  
 Shri Shivaji College of Arts  
 Commerce & Science, AKOLA  
 A GRADE C.GPA 3.24, BY NAAC



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

To,

Dr. Archana Sawarkar,

R.L.T. Science College,

Akola.

Sub:- Letter of acknowledgement.

Dear Sir,

We are thankful to you for sparing your valuable time for inaugurating the "Students Unit of Zoological Society" in our college and evaluation of our poster competition on 15/9/2017 .Your motivation to our students was very inspiring. We are indebted to you for your valuable contribution for making the event memorable.

With lots of best wishes and regards,

*Prof. Kalpana*

President,

Students' Unit of Zoological Society,

Shankarlal Khandelwal College.

*Dr. P. S. Dhabe*

HOD

**Dr. P. S. Dhabe**

Assistant Prof. & Head

Department of Zoology

Shankarlal Khandelwal Arts,

Science & Commerce College,

AKOLA.

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



(Late Radhikabai Meghe Mahila Shikshan Sansha)  
**SCHOOL OF SCHOLARS**  
CBSE Affiliation No. - 1130166



Kaukhed, Hingna Road, Akola.  
Ph : 0724-2489284, 2489288  
E-mail : s\_akola@rediffmail.com  
Website : www.sosakolakk.edu.in

Ref No. : SOS/AKL/KK/17-18/374

Date : 27-01-18

To,  
Mrs. Archana Savarkar,  
Akola .

Subject : Thanks letter

Dear Madam ,

As said by G. K. Chesterton "I would maintain that thanks are the highest form of thought, and that gratitude is happiness doubled by wonder."

We would hereby like to thank you whole heartedly for taking out some precious moments out of your busy schedule to guide and address our students during "Eureka" – The Science Symposium , and for being such a wonderful judge to our programme .

Thanking you .

Regards ,

*मनिषा*

Mrs. Manisha Umbarkar  
Principal  
School of Scholars ,



सत्यमेव जयते

राज्य विज्ञान शिक्षण संस्था, रविनगर, नागपूर  
शिक्षणाधिकारी (माध्य.) जि.प.अकोला.  
अकोला जिल्हा विज्ञान अध्यापक मंडळ, अकोला.  
जी.डी.प्लॅटीनम ज्युबिली इंग्लिश स्कूल, अकोला.

जावक क्र. शि.मा./ जिव / Q / २०१७  
कार्यालय शिक्षणाधिकारी (माध्य.), जि.प.अकोला.  
दिनांक : ३१.१.२०१७ / २०१७

### कार्यमुक्त प्रमाणपत्र

प्रमाणित करण्यात येते की, दि. ३१.१.२०१७ रोजी अकोला तालुकास्तरीय विद्यार्थी विज्ञान मेळावा / विज्ञान नाट्य महोत्सव स्पर्धेचे आयोजन करण्यात आले होते, या मेळाव्याकरिता

श्री/सौ/कुं. अर्चना स्त्री. सावरकर

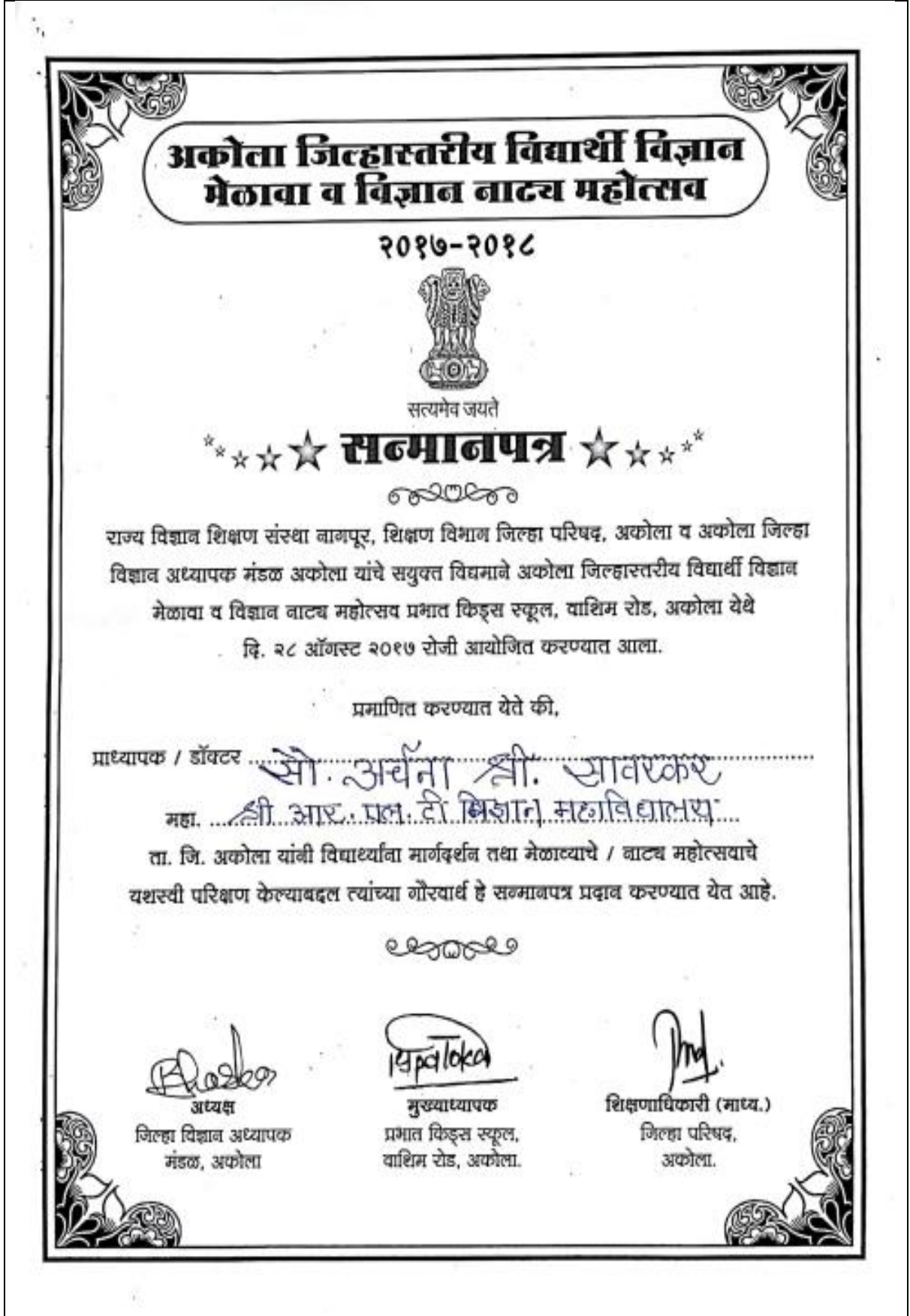
शाळा : स्त्री. आर. एल. टी. विज्ञान महाविद्यालय

हे मेळाव्यास्थली परिक्षक म्हणून पूर्ण वेळ उपस्थित होते. त्यांना दि. ३१.१.२०१७ रोजी सायं. ६:०० वाजता कार्यमुक्त करण्यात आले.

*मनिषा*  
शिक्षणाधिकारी (माध्य.)  
जि.प.अकोला.

स्थळ :- जि.डी.प्लॅटीनम ज्युबिली इंग्लिश स्कूल, अकोला.





**अमरावती विभागीय अखिल  
भारतीय विद्यार्थी विज्ञान मेळावा  
२०१७-२०१८**

  
सत्यमेव जयते

**प्रमाणपत्र**

राज्य विज्ञान शिक्षण संस्था नागपूर, शिक्षण उपसंचालक अमरावती विभाग, अमरावती व अमरावती विभागीय विज्ञान अध्यापक मंडळ यांचे संयुक्त विद्यमाने अमरावती विभाग अखिल भारतीय विद्यार्थी विज्ञान मेळावा बाल शिवाजी माध्यमिक शाळा, जठारपेठ, अकोला येथे दि. १४ सप्टेंबर २०१७ रोजी आयोजित करण्यात आला प्रमाणित करण्यात येते की,

प्राध्यापक / डॉक्टर .....**सौ. अर्चना सावरकर**.....  
महा. ....**R. L. T. Science college Akola**.....  
ता. जि. अकोला यांनी विद्यार्थ्यांना मार्गदर्शन तथा मेळाव्याचे यशस्वी परिक्षण केल्याबद्दल त्यांच्या गौरवार्थ हे सन्मानपत्र प्रदान करण्यात येत आहे.

**सौ. अश्वत्थ**  
मुख्याध्यापक  
बाल शिवाजी माध्यमिक शाळा,  
जठारपेठ, अकोला

**श्री. अश्वत्थ**  
शिक्षणाधिकारी (माध्य.)  
निलहा परिषद,  
अकोला

**श्री. अश्वत्थ**  
शिक्षण उपसंचालक  
अमरावती विभाग,  
अमरावती

दिनांक : १४ सप्टेंबर २०१७  
स्थळ : बाल शिवाजी माध्यमिक शाळा, जठारपेठ, अकोला



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

राज्य विज्ञान शिक्षण संस्था नागपूर, शिक्षण विभाग जिल्हा परिषद अकोला,  
जिल्हा विज्ञान अध्यापक मंडळ, अकोला यांचे संयुक्त विद्यमाने

**४३ वे अकोला जिल्हास्तरीय विज्ञान प्रदर्शन व  
२ रा ग्रंथ महोत्सव (पुस्तक जत्रा)**

दि. १ ते ११ डिसेंबर, २०१७

**प्रमाणपत्र**

प्रमाणित करण्यात येते की प्रा. डॉ. अर्चना सावरकर  
आर एल टी कॉलेज अकोला. जि. अकोला ह्यांनी उपरोक्त प्रदर्शनीचे  
अचूक मूल्यापन केल्याबद्दल गौरवार्थ दि. ११ डिसेंबर २०१७ ला हे प्रमाणपत्र प्रदान करण्यात येत आहे.

मुख्याध्यापक  
भिकमचंद चंटेनवाल विद्यालय, अकोला

अध्यक्ष  
जिल्हा विज्ञान अध्यापक मंडळ, अकोला

A. S. Shegatae  
विज्ञान पर्यवेक्षक  
जि. प. अकोला

शिक्षणाधिकारी (प्राथ.)  
जि. प. अकोला

शिक्षणाधिकारी (माध्य.)  
जि. प. अकोला

भारत सरकार विज्ञान व तंत्रज्ञान विभाग, नवी दिल्ली  
महाराष्ट्र शासन शालेय शिक्षण व क्रीडा विभाग, मुंबई  
महाराष्ट्र राज्य शैक्षणिक संशोधन व प्रशिक्षण परिषद, पुणे  
प्रादेशिक विद्या प्राधिकरण, नागपूर  
शिक्षण विभाग, जिल्हा परिषद, अकोला  
इन्स्पायर अवार्ड योजना २०१७-१८ अंतर्गत अवार्डी विद्यार्थ्यांचे

**७ वे जिल्हास्तरीय प्रदर्शन**

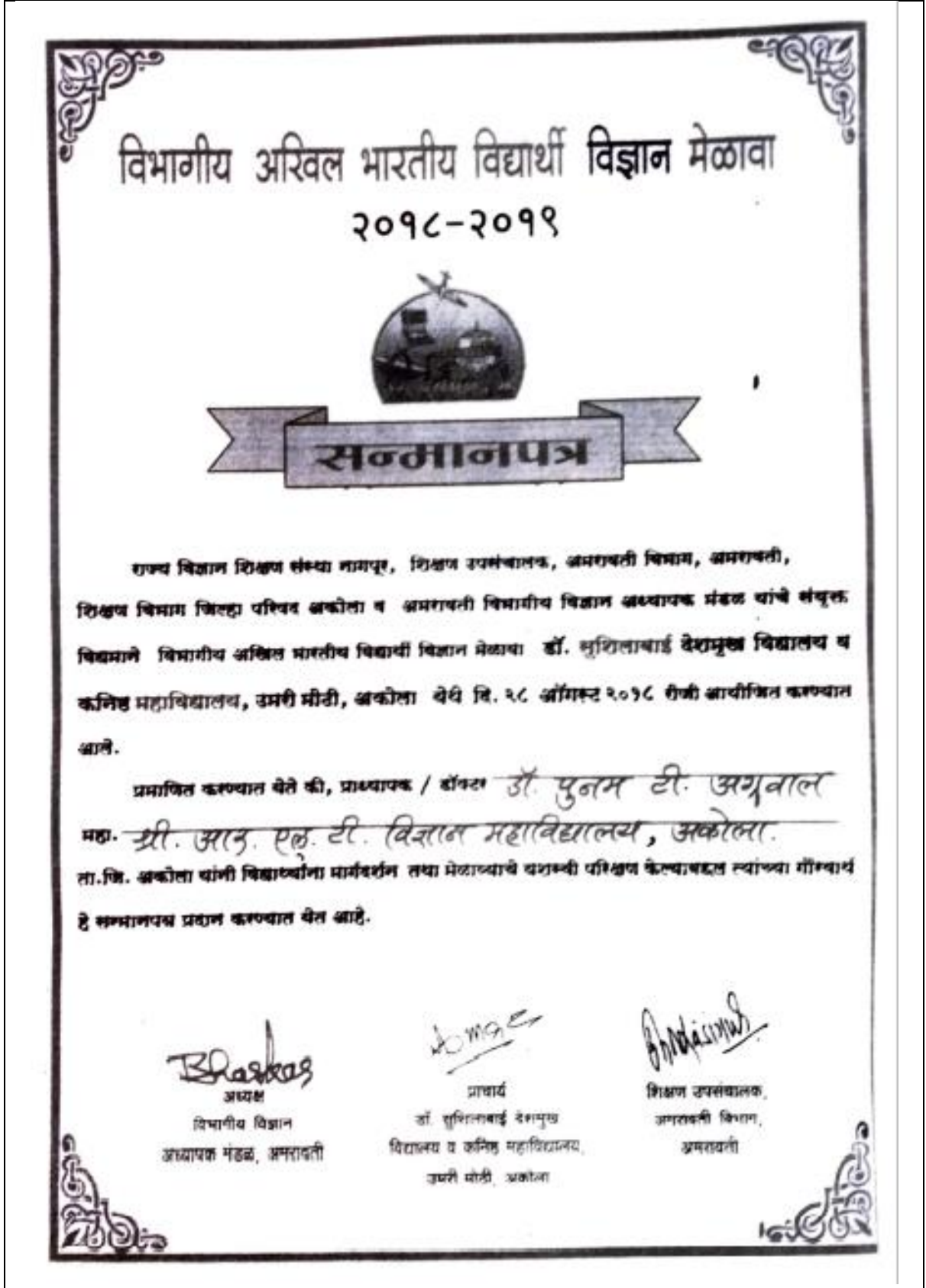
**प्रशस्तीपत्र**

प्रशस्तीपत्र करण्यात येते की,  
इन्स्पायर अवार्ड ७ वे जिल्हास्तरीय प्रदर्शन बी.आर. हायस्कूल, अकोला येथे दिनांक १५ ते १७ फेब्रुवारी २०१८ या  
कालावधीत संपन्न झाले. सदर विज्ञान प्रदर्शनात सहभागी झालेल्या विद्यार्थ्यांच्या प्रदर्शनीय वस्तूंचे/प्रकल्पाचे परिक्षक म्हणून  
प्रा.डॉ.अर्चना सावरकर  
यांनी उत्कृष्ट कार्य केले त्याबद्दल त्यांना हे प्रशस्ती पत्र शुभकामनेसह प्रदान करण्यात येत आहे.

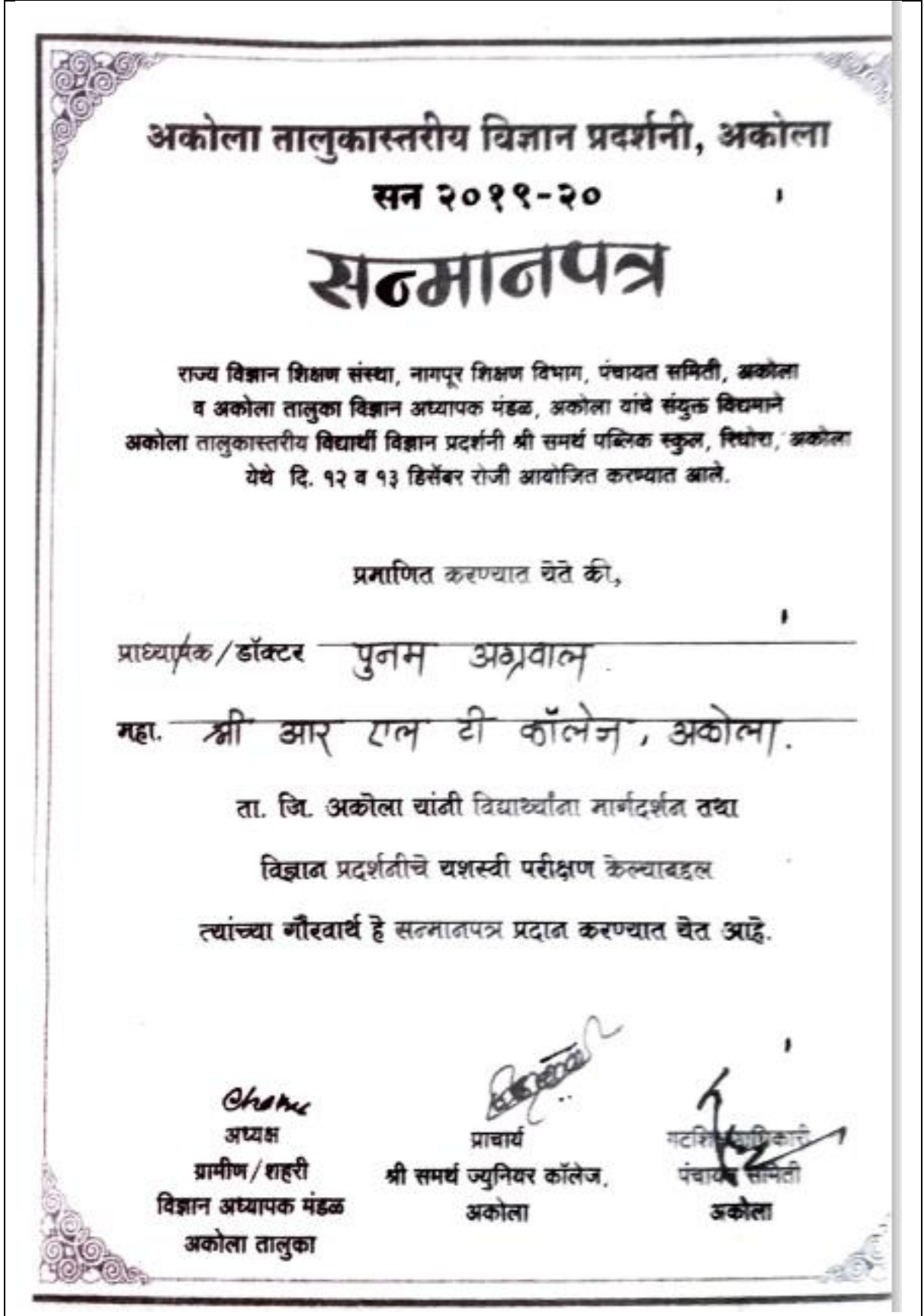
(प्रकाश मुकुंद)  
शिक्षणाधिकारी (माध्य.) जि.प. अकोला.  
सहा जिल्हा समन्वयक अधिकारी

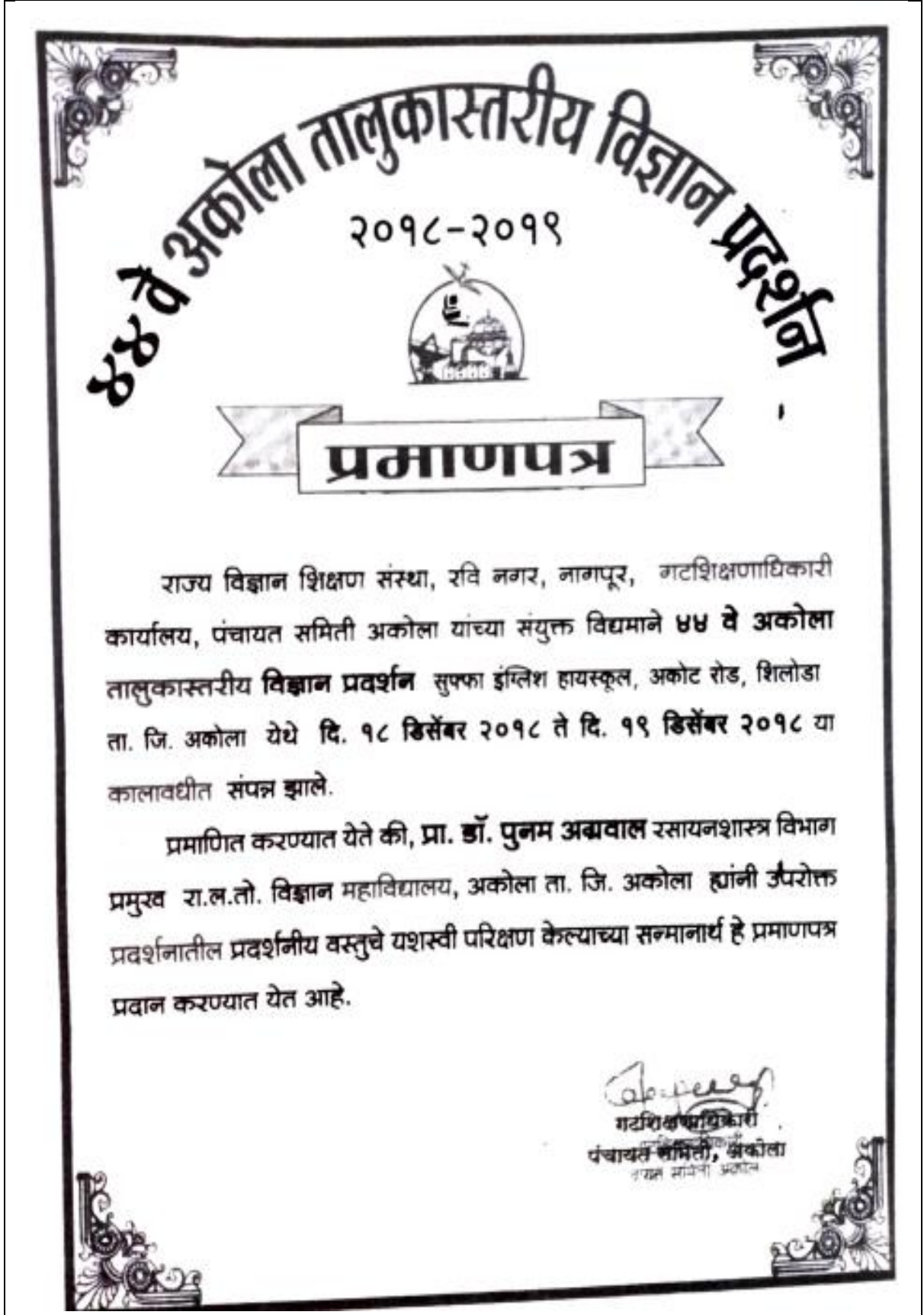
(एस. रामामुनी)  
मुख्य कार्यकारी अधिकारी  
जिल्हा परिषद, अकोला.  
सहा निदेशक जिल्हास्तरीय प्रदर्शन

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES











## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

भारत सरकार विज्ञान व तंत्रज्ञान विभाग, नवी दिल्ली  
महाराष्ट्र शासन शालेय शिक्षण व क्रीडा विभाग, मुंबई  
महाराष्ट्र राज्य शैक्षणिक संशोधन व प्रशिक्षण परिषद, पुणे  
प्रादेशिक विद्या प्राधिकरण, नागपूर  
शिक्षण विभाग, जिल्हा परिषद, अकोला  
इन्स्पायर अवार्ड योजना २०१७-१८ अंतर्गत अवाडी विद्यार्थ्यांचे

 **७ वे जिल्हास्तरीय प्रदर्शन**  
**सन्मानपत्र**

सन्मानित करण्यात येते की,  
**प्रा. डॉ. विजय नानोटी**  
प्राचार्य, रा.ल.तो.विज्ञान महाविद्यालय, अकोला  
इन्स्पायर अवार्ड ७ वे जिल्हास्तरीय प्रदर्शन बी. आर. हायस्कूल, अकोला येथे दिनांक १५ ते १७ फेब्रुवारी २०१८ या कालावधीत संपन्न झाले. या प्रदर्शनाच्या यशस्वी आयोजनाकरीता आपल्या अधिनस्त व त्यांच्या विषयात निष्णात असणारे परिक्षक उपलब्ध करून दिले तसेच अशाच प्रकारच्या विज्ञान विषयक विविध उपक्रमात मनःपूर्वक सहकार्य केल्याबद्दल आपणास सन्मानित करण्यात येत आहे.

  
(प्रकाश मुकुंद)  
निष्पन्नाधिकारी (माध्य.) जि.प. अकोला.  
तथा जिल्हा समन्वयक अधिकारी

  
(एस. रामामूर्ती)  
मुख्य कार्यकारी अधिकारी  
जिल्हा परिषद, अकोला.  
तथा नियंत्रक जिल्हास्तरीय प्रदर्शन





महाराष्ट्र शासन

भारत सरकार विज्ञान व तंत्रज्ञान विभाग, नवी दिल्ली  
महाराष्ट्र शासन शालेय शिक्षण व क्रीडा विभाग, मुंबई  
महाराष्ट्र राज्य शैक्षणिक संशोधन व प्रशिक्षण परिषद, पुणे  
राज्य विज्ञान शिक्षण संस्था, रविनगर, नागपूर  
शिक्षण विभाग, जिल्हा परिषद, अकोला  
जिल्हा विज्ञान अज्ञापक मंडळ, अकोला

## जिल्हास्तरीय वैज्ञानिक प्रतिकृति अपग्रेडेशन कॅम्प



प्रमाणपत्र



प्रमाणित करण्यात येते की डॉ. सार्त्तिना श्रीकृष्ण आवरकर  
श्री. श. ल. लो. विज्ञान महाविद्यालय, अकोला.  
आपण दिनांक ७ जानेवारी २०२२ रोजी राज्यस्तरीय इन्सपायर अवॉर्ड २०२०-२१ करीता निवड  
प्राप्त १२ वैज्ञानिक प्रतिकृति अपग्रेडेशन कॅम्प मध्ये बाल वैज्ञानिक, मार्गदर्शक शिक्षक,  
मुख्याध्यापक यांना मार्गदर्शन व शंका समाधान करून मोलाचे सहकार्य केले करीता सन्मानार्थ  
प्रमाणपत्र प्रदान करण्यात येत आहे.

शुभकामनेसह.....!

दिनांक : 7 जानेवारी 2022

स्थळ : जिल्हा कन्या शाळा अकोला

डॉ. रविंद्र भास्कर  
अध्यक्ष : जिल्हा विज्ञान  
अध्यापक मंडळ

शिक्षणाधिकारी (माध्य.)  
जिल्हा परिषद,  
अकोला

मुख्यकार्यकारी अधिकारी  
जिल्हा परिषद,  
अकोला





**दिव्य मराठी विशेष • १९ शाळांच्या ११० विद्यार्थ्यांचा सहभाग, प्रभात किड्सच्या तीन चमूची निवड राष्ट्रीय बाल विज्ञान परिषदेची जिल्हास्तर स्पर्धा**

प्रतिनिधी | अकोला

विद्यार्थ्यांमध्ये वैज्ञानिक दृष्टीचा विकास जाणवू शकतो असे प्रतिपादन जिल्हास्तरावरील प्रभात किड्सच्या तीन चमूची निवड राष्ट्रीय बाल विज्ञान परिषदेची जिल्हास्तर स्पर्धा बालविज्ञान शाळांमधील शिक्षिकांनी, या स्पर्धेत प्रभात किड्स स्कूलच्या विद्यार्थ्यांनी उत्कृष्ट प्रदर्शन केले असून विविध मंडळांमधील तसेच तीन चमू विभागीय स्तरावर पोहोचले.

या स्पर्धेत १९ शाळांच्या ११० विद्यार्थ्यांनी सहभाग घेतला. या स्पर्धेत उत्तमतर मंडळाने प्रभात किड्स स्कूलच्या इयत्ता नववीच्या अर्धे पाडे व रिटो देगमुळ या दोन विद्यार्थ्यांनी कर्तविलेख विज्ञान प्रकल्पाची निवड विभागीय स्तरावर झाली. उत्तम निम्नतर मंडळाने दोन विज्ञान प्रकल्पांची निवड विभागीय स्तरावर झाली. या दोन्ही मंडळ प्रभात किड्स स्कूलने



प्रभात किड्स स्कूलच्या तीन चमूची विभागीय स्पर्धेसाठी निवड

विभागीय स्तरावर मजल मारली आहे. पहिल्या मंडळ अर्धे जयचमूचे (इयत्ता सातवी) आणि स्वर्णिम फुले ( इयत्ता सहावी) तर दुसऱ्या मंडळ इयत्ता सातवीतील अर्जुन विठ्ठलने आणि अर्जुन राऊत यांच्या विज्ञान प्रकल्पाची निवड झाली आहे. तसेच विज्ञान शिक्षक गिरीश कुलकर्णी, स्नेहा पाटील व मेघा टेकाडे टेकाडे

यांचे मार्गदर्शन लाभले. या स्पर्धेचे जिल्हा समन्वयक उदय वझे, परीक्षक डॉ. सुहास उद्यपूरकर, डॉ. रमेश जोशी, डॉ. निरज बराडे यांनी परीक्षक म्हणून काम पाहिले. यावेळी प्रमुखगणांचा संचालित बालविज्ञान शाळांच्या मुख्याध्यक्षिका संगीता जाधवकर आणि पोचडे प्रमुखाने उद्दीष्टात

**स्पर्धेत नावीन्यपूर्ण प्रकल्प सादर**

या स्पर्धेत विद्यार्थ्यांनी नावीन्यपूर्ण प्रकल्प सादर केले. त्यामध्ये तीन प्रकल्पांची निवड झाली असून त्यामध्ये पारिटेकचा एकल बापर टाऊनच्या दृष्टीने खेडिय सधा विघटनशील पदार्थासमूह निर्मित वस्तूचा बापर, रोजगारच्या टक्कलीसमूह भांडी निर्मिती, नमुदला पथीय म्हणून अंबाडीची लागवड या प्रकल्पांचा समावेश आहे.

दोन्ही विभाग स्तरीय स्पर्धा ठरजे वेळे दरम्यान, राष्ट्रीय बाल विज्ञान परिषदेची विभाग स्तरीय स्पर्धा ठरजे वेळे ११ डिसेंबर रोजी आयोजित केली असून ही स्पर्धा सर्वोत्तम स्पर्धेमध्ये होणार असल्याचे जिल्हा समन्वयक उदय वझे यांनी सांगितले.

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



गटशिक्षणाधिकारी, पंचायत समिती अकोला

पंचायत समिती कार्यालय, अकोला ता. जि. अकोला

अकोला तालुकास्तरीय विज्ञान प्रदर्शन, अकोला

सन २०२१-२०२२

सन्मानपत्र

राज्य विज्ञान शिक्षण संस्था नागपूर, शिक्षण विभाग पंचायत समिती अकोला व अकोला तालुका विज्ञान अध्यापक मंडळ अकोला यांचे संयुक्त विद्यमाने अकोला तालुकास्तरीय विद्यार्थी विज्ञान प्रदर्शनी शारदा माध्य. व उच्च माध्य. विद्यानिकेतन, मलकापूर अकोला येथे दिनांक १०/०९/२०२२ रोजी आयोजित करण्यात आले.

प्रमाणित करण्यात येते की, ~~समाधान लक्ष्मण मुंडे~~  
महा. श्री. श. ल. तो. विज्ञान महाविद्यालय, अकोला  
ता. जि. अकोला यांनी विद्यार्थ्यांना मार्गदर्शन तथा विज्ञान प्रदर्शनीचे यशस्वी परिष्ण केल्याबद्दल त्यांच्या गौरवार्थ हे सन्मानपत्र प्रदान करण्यात येत आहे.

  
अध्यक्ष

विज्ञान अध्यापक मंडळ,  
अकोला तालुका

  
प्राचार्य

शारदा माध्य. व उच्च माध्य.  
विद्यानिकेतन, मलकापूर अकोला

  
गटशिक्षणाधिकारी

पंचायत समिती,  
अकोला



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Staff members worked as coordinator/ Incharge for various Science oriented activities



The Berar General Education Society's, Akola  
(Regd. No. F65 B'bay Public Trust Act.)  
**SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL COLLEGE OF SCIENCE, AKOLA**  
**(R.L.T. COLLEGE OF SCIENCE)**  
CIVIL LINES, AKOLA - 444 001 (MAHARASHTRA)

: Recognized By :

Govt. of Maharashtra & Permanently Affiliated to S. G. B. Amravati University, Amravati.

Ph. No. 0724 - 2415480  
Fax - (0724) - 2415650  
Post Box No.60

**NAAC REACCREDITED**  
**GRADE 'A'**  
**WITH CGPA - 3.12**

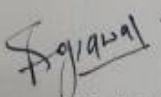
**COLLEGE CODE - 210**  
Website : [www.rltsc.org](http://www.rltsc.org)  
E-mail: [principal@rltsc.org](mailto:principal@rltsc.org)  
[principal@rltsc.edu.in](mailto:principal@rltsc.edu.in)

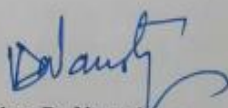
L.No.: \_\_\_\_\_

Date: 10.01.20

### *Certificate*

This is to certify that, Dr. Pradip P. Deohate, Associate Professor, Department of Chemistry, Shri R.L.T. College of Science, Akola has worked as the Sectional Co-ordinator (Category - Pure Science) of "Avishkar - Akola District Research Convention" organized by Shri R.L.T. College of Science, Akola in association with S.G.B. Amravati University, Amravati on Friday, 10.01.2020.

  
Dr. Poonam T. Agrawal  
District Co-ordinator  
Avishkar Cell, Akola District

  
Dr. Vijay D. Nanoty  
Principal  
Shri R.L.T. College of Science, Akola



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

**Amravati University Chemistry Teachers' Association**  
Reg. No. - Maharashtra/301/2002, Amravati

**Address for Correspondence :**  
Kishore Puri  
Secretary, AUCTA  
Department of Chemistry  
Shri Shivaji Science College, Amravati- 444 603  
Cell : 8767437279  
E-mail: aucta2002@gmail.com



**Office Address :**  
3, Hill View Apartments,  
Paonaskar Layout,  
Camp, Amravati - 444 602

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**President**  
Dr. P. R. Rajput  
Karanja Lad

**Vice President**  
Dr. S. V. Kolhe  
Akot

**Dr. S. E. Bhandarkar**  
Amravati

**Secretary**  
Dr. K. N. Puri  
Amravati

**Treasurer**  
Dr. Ms. S. N. Gupta  
Amravati

**Members**  
Dr. Ms. S. K. Deshmukh  
Akola  
Dr. S. A. Waghmare  
Barshitakali  
Dr. Ms. P. M. Dahikar  
Morshi  
Dr. D. S. Hedao  
Chikhaldara  
Mr. S. L. Kumbhare  
Akhal  
Mr. S. B. Borul  
Lonar  
Dr. K. F. Shelke  
Nasod  
Dr. V. R. Mate  
Mangripur  
Dr. V. S. Jagtap  
Ghatarg  
Mr. S. M. Arade  
Arni

**Co-opted Members**  
Dr. D. T. Tayade  
Amravati  
Dr. S. D. Thakur  
Badnora  
Dr. Ms. M. W. Shinde  
Yavatmal

**Ex-officio Members**  
Dr. A. S. Aswar  
Amravati

**Certificate**

This is to certify that, **Dr. Pradip P. Deohate**, Associate Professor, Department of Chemistry, Shri R.L.T. College of Science, Akola has worked as the Organizing Secretary of "AUCTA's National Level Online Aptitude Test in Chemistry" organized by Amravati University Chemistry Teachers' Association (AUCTA) during 20.07.2020 to 30.07.2020 in online mode through google form.

Total 2075 students of UG, PG and other courses offering subject chemistry were participated in this aptitude test.

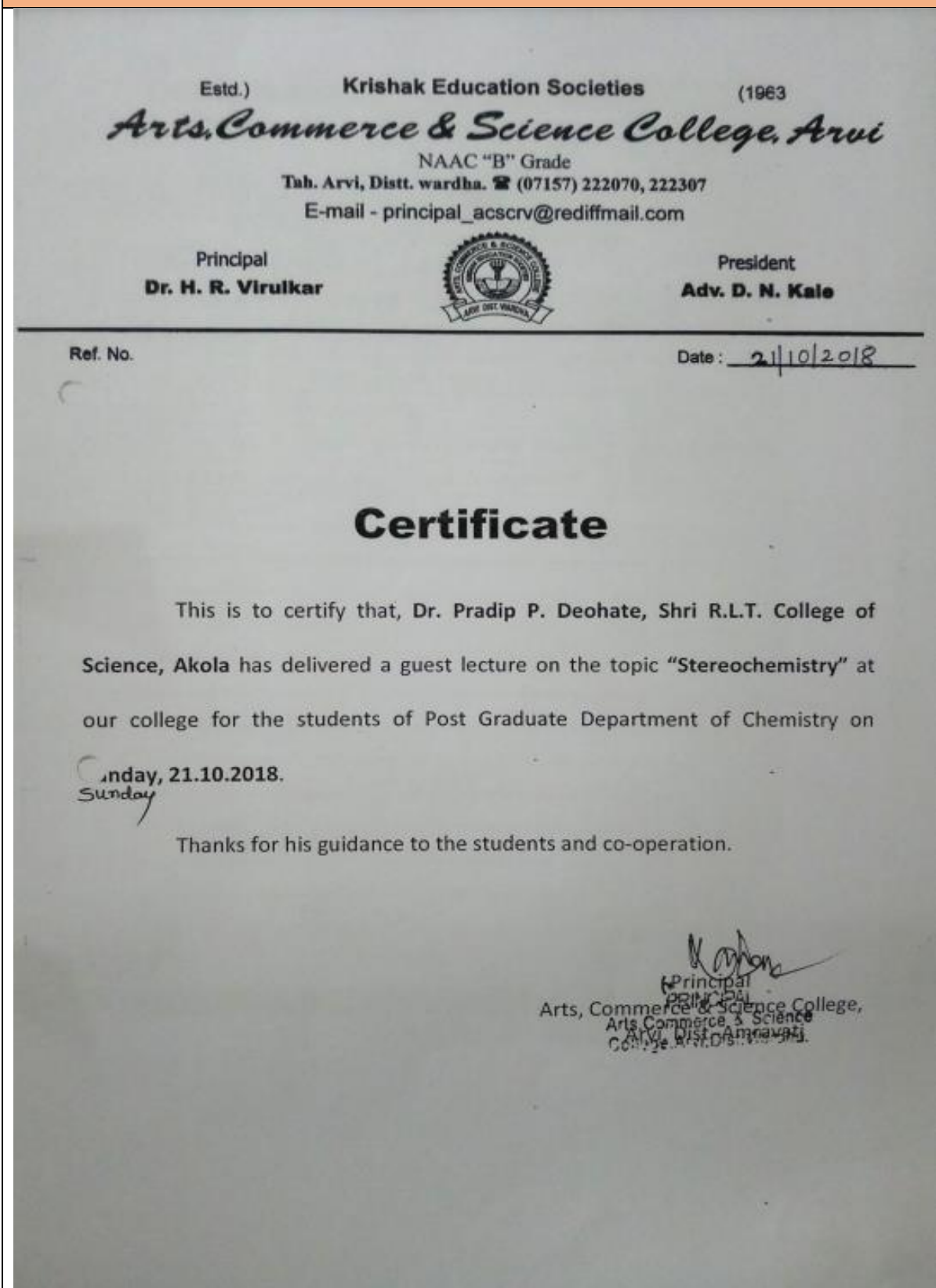
Date : 30.07.2020

  
**Dr. K. N. Puri**  
Secretary, AUCTA




CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Staff members worked as Resource persons for various scientific events



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

The Berar General Education Society's, Akola  
(Regd. No. F65 B'bay Public Trust Act.)



**SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL COLLEGE OF SCIENCE, AKOLA**  
**(R.L.T. COLLEGE OF SCIENCE)**  
CIVIL LINES, AKOLA - 444 001 (MAHARASHTRA)  
: Recognized By :  
Govt. of Maharashtra & Permanently Affiliated to S. G. B. Amravati University, Amravati.

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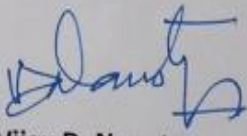
**COLLEGE CODE - 210**  
Website : [www.rltsc.org](http://www.rltsc.org)  
E-mail: [principal@rltsc.org](mailto:principal@rltsc.org)  
[principal@rltsc.edu.in](mailto:principal@rltsc.edu.in)

---


L.No.: \_\_\_\_\_ Date: 13.06.2020

*Certificate*

This is to certify that, **Dr. Pradip P. Deohate**, Associate Professor, Department of Chemistry, Shri R.L.T. College of Science, Akola has delivered the lecture on the topic "Mass Spectroscopic Instrumental Techniques and Fragmentation Methods" through the recorded power point presentation in "Certificate Course in Spectroscopic Techniques in Chemistry (STC-2020) (Online)" organized by Department of Chemistry, Shri R.L.T. College of Science, Akola during 04.05.2020 to 11.05.2020.



**Dr. Vijay D. Nanoty**  
Principal  
Shri R.L.T. College of Science, Akola

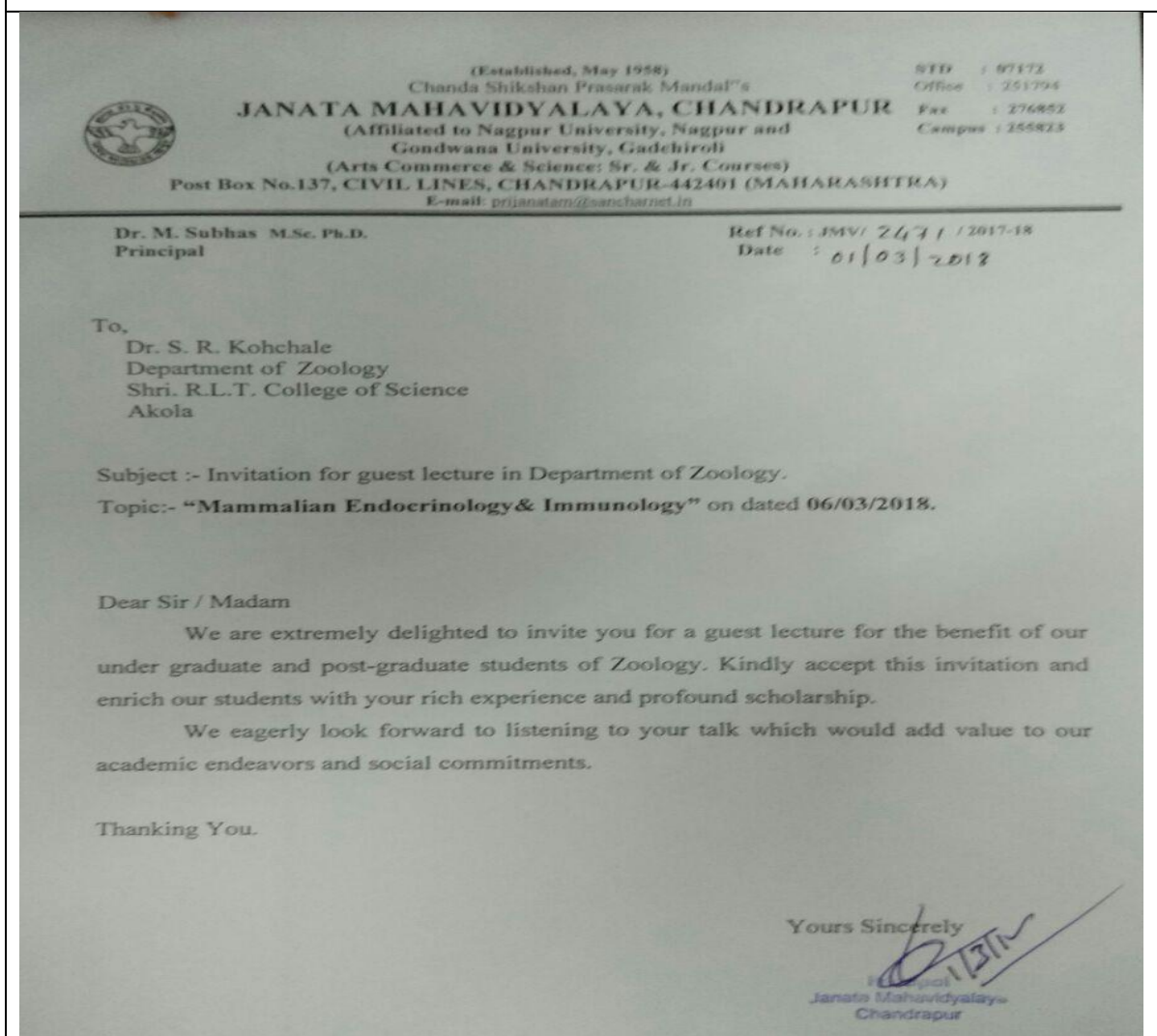




CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Dr. Sudhir Kohchale delivering Guest lecture



CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES





CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



Guiding school students of Akola District for Model upgradation to present in state level Exhibition



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



### Some certificates of Appreciation





CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES





महाराष्ट्र शासन

शिक्षणाधिकारी (माध्य) जिल्हा परिषद, अकोला

# अविष्कार कल्पनेला नवनिर्मितीची जोड...



प्रमाणपत्र



प्रमाणित करण्यात येते की श्री/श्रीमती डॉ. विजय दि. नानोटी, मावार्थ  
International Creativity & Innovation Day 21 April 2022 रोजी आयोजित इन्स्पायर  
अबॉर्ड राज्यस्तरीय प्रदर्शन मध्ये सहभागी झालेल्या विद्यार्थ्यांची "अविष्कार ... कल्पनेला  
नवनिर्मितीची जोड" या परीषदेला यशस्वी करण्याकरीता सहकार्य केल्याबद्दल सन्मानार्थ  
आपणास सहर्ष प्रमाणपत्र प्रदान करण्यात येत आहे.

शुभकामनेसह.....!

स्थळ : आर. एल. टी. सायन्स कॉलेज, अकोला

दिनांक : २१.०४.२०२२

डॉ. सुचिता पाटेकर  
शिक्षणाधिकारी माध्यमिक  
जिल्हा परिषद, अकोला

सौम्य खट्टियार  
मुख्यकार्यकारी अधिकारी  
जिल्हा परिषद, अकोला

निमा अरौरा  
जिल्हाधिकारी  
अकोला



## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Some Special innovative projects by our students and teachers

#### Intelligent stick for blind people

Our B.Sc. III student **Yash Vidyasagar** created an intelligent stick for blind people under the guidance of Electronics department professors. Name of his project was 'Microcontroller Based Tech Eye System for Obstacle Detection & Ranging to Assist Blind Person'. In this stick he built a circuit using a micro controller and coded it in a specific way. The circuit detects the obstacles faced by the person walking with this stick and emits a beep-beep sound in different ways and alerts the blind person. For this project Yash secured First prize for best research paper presentation in UGC sponsored National level conference 'Emerging Trends in Science' held at Vidyabharati College, Amravati on 1st and 2nd February 2019.

Web-link: <https://www.rltsc.edu.in/2019/02/17/yash-vidyasagar-great-achievement/>



#### लोकमत

सडे अँकर । 'यूजीसी'च्या राष्ट्रीय परिषदेत यश विद्यासागरचे पोस्टर प्रेझेंटेशन अव्वल!

'बीएससी'च्या विद्यार्थ्याने बनविली दृष्टिबाधितांसाठी इंटेलिजन्ट काठी!

लोकमत न्यूज नेटवर्क

अकोला: अमावती येथे विद्याभारती महाविद्यालयामध्ये १ व २ फेब्रुवारी रोजी यूजीसीने अंतर्गत पार पडलेल्या राष्ट्रीय स्तरावरील परिषदेमध्ये अकोल्याच्या रा.ल.त. विज्ञान महाविद्यालयातील बीएससी अंतिम वर्षाला शिकणाऱ्या यश विद्यासागर याच्या पोस्टर प्रेझेंटेशनने प्रथम क्रमांक पटक्याला.

दुमरजींग ट्रेन्ड्स इन सायन्स विषयावर राष्ट्रीय परिषद आयोजित करण्यात आली होती. या परिषदेमध्ये यश विद्यासागर याने 'मायक्रोकंट्रोलर बेस्ड टेकआय सिस्टीम फॉर ऑबस्टॅकल डिटेक्शन अँड रॅन्जिंग टु अस्सिस्ट ब्लाइंड पर्सन' विषयावर त्याने शोधप्रबंध सादर केला. यश याने दृष्टिबाधितांसाठी एक इंटेलिजन्ट



दृष्टिबाधितांसाठी तयार केलेल्या इंटेलिजन्ट काठीचे प्रारंभिक करताना यश.

काठी तयार केली असून, या काठीमध्ये त्याने मायक्रो कंट्रोलर वापरून सर्किट तयार केले आणि त्याचे विशिष्ट पद्धतीने कोडिंग केले. ही काठी घेऊन

चालणाऱ्या दृष्टिबाधित व्यक्तीसमोर आलेल्या अडथळ्यांना ओळखून हे सर्किट वेगवेगळ्या पद्धतीने धीप-धीप असा आवाज देते आणि दृष्टिबाधित

व्यक्तीस सतर्क करते. समोर असलेला अडथळा दूर असल्यास वेगळा आवाज आणि जसजसा अडथळा जवळ येईल, त्याप्रमाणे या आवाजात बदल होऊन

त्या व्यक्तीस अचूकपणे पुढे काठी अडथळा आहे का, हे कळते. वेगवेगळ्या उपयोगातील दृष्टिबाधित व्यक्तींवर यशने प्रथम या काठीचा प्रयोग करून पहिला. या सर्व व्यक्तींशी संवाद साधून, त्यांच्या सुचनांप्रमाणे आणि असंख्य निरीक्षणे आणि टिपणे घेऊन त्याने या प्रकल्पामध्ये आवश्यक त्या सुधारणा केल्या आणि अतिशय अचूक अशी ही सिस्टीम तयार केली. हा प्रकल्प तयार करताना त्याला रा.ल.त. विज्ञान महाविद्यालयाचे प्राचार्य डॉ. विजय नानोटी, इलेक्ट्रॉनिक्स विभाग प्रमुख प्रा. चव्हाण, प्रा. चौधरी, डॉ. मालपाणी यांचे त्याला मार्गदर्शन लाभले. भारतातील पहिल्या तानपुऱ्याचे निर्माते प्रा. दत्तारज विद्यासागर यांचा यश मुलगा आहे. (प्रतिनिधी)

## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### Water powered bike

College student Yash Jayale and his friends created a new record by building a bike that runs on salt water. Using the principle of electrolysis in chemistry, hydrogen and oxygen are separated after decomposition of water. Using this in a bike, they created a bike that runs 40 kilometers per hour. For only thirty rupees, this bike can run 120 kilometers.



Yash Jayale (B.Sc. III) and his team presented their work on water powered bike to Central Minister of roads and transport Nitinji Gadkari at Nagpur

## संशोधन एक लीटर पाण्यावर तीन तासांची सवारी विद्यार्थ्यांनी बनवली पाण्यावर चालणारी 'वॉटर बाईक'

नाट्यभूमि वृत्तसेवा

। अकोला, दि. २३ ।

अकोल्यात प्रथमच आरएनटी म हायिद्यालयाचा विद्यार्थी यश श्रीकांत जायले या विद्यार्थ्यांच्या संकल्पनेनुसार अमिजीत धर्म, संतनु जाल्के, मंदार कळे व महेश घाटे यांच्या सहाय्याने वॉटर बाईक तयार करून एक नवा इतिहास घडविला. रसायन शास्त्रातील इलेक्ट्रोनिमीस या सिद्धांताचा वापर करून खाऱ्या पाण्याचे ब्रेकडाऊन करून एचटूओ मॉलेक्युलचे हायड्रोजन व ऑक्सीजन हे गॅस वेगळे होतात त्याचा गाडीमध्ये वापर करून गाडी प्रती तास ४० कि.मी. वेगाने पावत ती धावते याकरीता क्षारयुक्त पाणी आवश्यक असल्याचे यश जायलेने



सांगितले. तसेच पाण्याची वाफ सायलेंसर मधून जाताकरणात सोडली जाते. फक्त ३० रुपयात ही वॉटर बाईक १२० कि.मी. धावू शकते. त्याच्या प्रयोगामुळे अकोल्याच्या इतिहासात आजूखे एक मानाचा तुता

निष्पत्तीत खोवला जाणार आहे. स्थानिक कोलस्रेड परिसरात राहणारे डॉ. श्रीकांत जायले व सौ. बुभुद्रु जायले यांचा पुतला यश हा आपल्या वॉटलॉनी नेहमीच चातवित होता. मोटार सायकलमधील पेट्रोल

### प्राचार्य विजय नानोटीकडून कौतुक

आमच्या महाविद्यालयाचा विद्यार्थी यश जायले या विद्यार्थ्यांच्या संकल्पनेनुसार पाण्यावर चालणारी वॉटर बाईक खरोखरच देशाकरिता एक नवा इतिहास रचेल यात निष्कांत शंका नाही. यश व त्याच्या मित्र मंडळीचे कर्नाठे तितके कौतुक खरोखरच वाखाणायलागे आहे. त्याच्या या यशामुळे आमच्या महाविद्यालयाचे नावही निश्चित देशाच्या कानाकोपऱ्यात पोहोचेल.

सेपल्यवर उभो करून ठेवायचा. वॉटलॉनी त्याला म्हटले की, पेट्रोल महाम आहे. गाडीला हात नको लावत जावू. एवढ्याच निमित्ताने त्याला प्रेरणा मिळाली. अशी गाडी जर पाण्यावर चालली तर किती म जा वेईल असा विचार करून त्याने आपल्या मित्र मंडळीला संभवत घेवून त्याने वेगवेगळे प्रयोग सुरू केले. प्रारंभी त्याने भेंगार बाजारातून एम पट्टीचे गाडीचे काही स्पेअर पार्ट विकत

आणले. त्यावर पाण्याच्या टोपल्यात प्रयोगास सुरुवात केली. इतक्या प्रयोग यशम्यो होऊ लागला व त्याचा उत्साह वाढत गेला. वॉटलॉनीचा नकोटून हा प्रकार मुटला नाही, त्यांनी लगेच तो यशेन त्या गाडीकरिता लागण्याचा वस्तू त्याला देण्यास सुरुवात केली व यश आज यशम्यो झाला. लगेच त्याने पेट्टची मागणीही केली आहे ती आता शेकटल्या टप्प्यात आहे.



**Eco-friendly sustainable lamps**

Mr. Shailesh Jaiswal, Assistant professor, Department of Physics, contributed in the research of making eco-friendly sustainable lamps. He and co-workers got patent from Australian government for this innovative research.

**नवराष्ट्र**

फलोरोसेंट लाईट्स वापरून जगजागाराला शांतता आणण्यासाठी संशोधन करणारे शास्त्रज्ञांचा संशोधन प्रकल्प. शास्त्रज्ञांचा संशोधन प्रकल्प. शास्त्रज्ञांचा संशोधन प्रकल्प.

**अभिनव** डॉ.नागपुरे, जयस्वाल, डॉ. ओमनवार यांना ऑस्ट्रेलियन पेटंट

**पर्यावरणपूरक दिवे तयार करण्याबाबत संशोधन**

अमरावती. अमरावती संत गाडगेबाबा अमरावती विद्यापीठाचे माजी भौतिकशास्त्र विभागप्रमुख तथा बीएसआर फेलो डॉ. एस. के. ओमनवार यांच्या मार्गदर्शनाखाली शिवाजी विज्ञान महाविद्यालय, अमरावतीचे सहयोगी प्राध्यापक डॉ. पंकज नागपुरे व शैलेश जयस्वाल यांनी पर्यावरणपूरक दिवे तयार करण्याच्या केलेल्या संशोधनाला ऑस्ट्रेलियन गव्हर्नमेंटने इन्व्हेन्शन पेटंट प्रदान केले आहे. सदर पेटंटचे शीर्षक 'सिन्थिसिस ऑफ व्हिजिबल क्वॅन्टम कटिंग फॉसफोर फॉर मॅर्युरी फ्री फ्लोरोसेंट लॅम्प्स' हे आहे. संशोधनाबद्दल कुलगुरू डॉ. दिलीप मालखेडे, कुलसचिव डॉ.



तुषार देशमुख, भौतिकशास्त्र विभागप्रमुख डॉ. गजानन मुळे तसेच शिक्षक, विद्यार्थी, अधिकारी व कर्मचाऱ्यांनी त्यांचे अभिनंदन केले आहे. सध्या वापरण्यात येत असलेल्या फ्लोरोसेंट दिव्यांमध्ये एक अल्ट्रा व्हायोलेट यु. व्ही. फोटॉनच्या बदल्यात एकच दृश्यमान फोटॉन उत्सर्जित होतो, त्यामुळे बरीचशी

उर्जा वाहते. फ्लोरोसेंट दिव्यांमध्ये अल्ट्रा व्हायोलेट फोटॉन मिळविण्याकरिता पारा हा अतिशय विषारी धातू वापरण्यात येतो आणि हा धातू पर्यावरणाला खूप घातक आहे. त्यामुळे सध्या वापरण्यात येणारे दिवे हे पर्यावरणपूरक नसून त्याला पर्यायी व्यवस्था असणे गरजेचे झाले आहे, याच गरजेपोटी

**विकासात्मक दिशेने एक महत्वाचे पाऊल**  
संत गाडगेबाबा अमरावती विद्यापीठाच्या भौतिकशास्त्र विभागामध्ये गेल्या पंचवीस वर्षांपासून लुमिनिसन्स मटेरियल डेव्हलपमेंट लॅबोरेटरीमध्ये वेगवेगळ्या पदार्थाबद्दल अत्याधुनिक आणि शांत विकासात्मक कार्यामध्ये उपयुक्त असलेले पदार्थ तयार करण्यात येतात. तयार करण्यात आलेले पदार्थ हे आयात करण्यात येणाऱ्या पदार्थासाठी पर्यायी व्यवस्था हा मूळ उद्देश असून अत्यंत अल्प दरात आणणे स्वतः तयार केलेल्या पदार्थांचा उपयोग करणे, हा शांत विकासाच्या मागचा उद्देश असून सदर पेटंट अंतर्गत संशोधन त्या कार्याचा भाग आहे. या संशोधन कार्यात संशोधकांनी (वाय.जीडी.) पी.ओ.०४:टीवी ही कार्यक्षम हिरवा प्रकाश उत्सर्जित करणारी फ्लोरोसेंट पावडर सूत्रबद्ध करून प्रयोगशाळेत विशिष्ट पद्धतीने तयार केली. जी पारिवर्तित फ्लोरोसेंट दिव्यांमध्ये वापरात येऊ शकते. त्यामुळे अशाप्रकारचे दिवे शाश्वत विकासात्मक दिशेने एक महत्वाचे पाऊल ठरत असून या फ्लोरोसेंट पावडरमधून उत्सर्जित होणारा प्रकाश हा क्वॅन्टम कटिंग तत्वावर आधारित आहे. त्यांनी केलेले संशोधन विशेष त्यांनी केलेल्या प्रयत्नांना यश महत्त्वाचे आहे. विकासाच्या दृष्टीने मिळाले आहे.

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10 November 2021 Page No. 4  
epaper.navarashtra.com

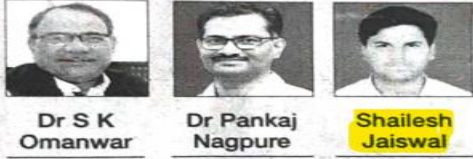
**Research on mercury-free fluorescent lamps gets patent of Australian Govt**

Amravati Bureau  
AMRAVATI, Nov 13

THE research done by Dr Pankaj Nagpure, Associate Professor with Shivaji Science College, Amravati, and Shailesh Jaiswal, BSR Fellow, have been granted an innovation patent by the Australian Government. The patent is titled 'Synthesis of Visible Quantum Cutting Phosphor for Mercury-free Fluorescent Lamps'. They carried out the work under the guidance of Dr S K Omanwar, former Head of Physics Department of SGBAU. One of the fluorescent lamps currently in use is the Ultra Violet (UV) photon. A single visible photon is emitted in exchange for a photon, thus wasting a lot of energy. Mercury is a highly toxic metal used to obtain ultraviolet photons in such fluorescent lamps and is very harmful to the environment. Therefore, the lamps used

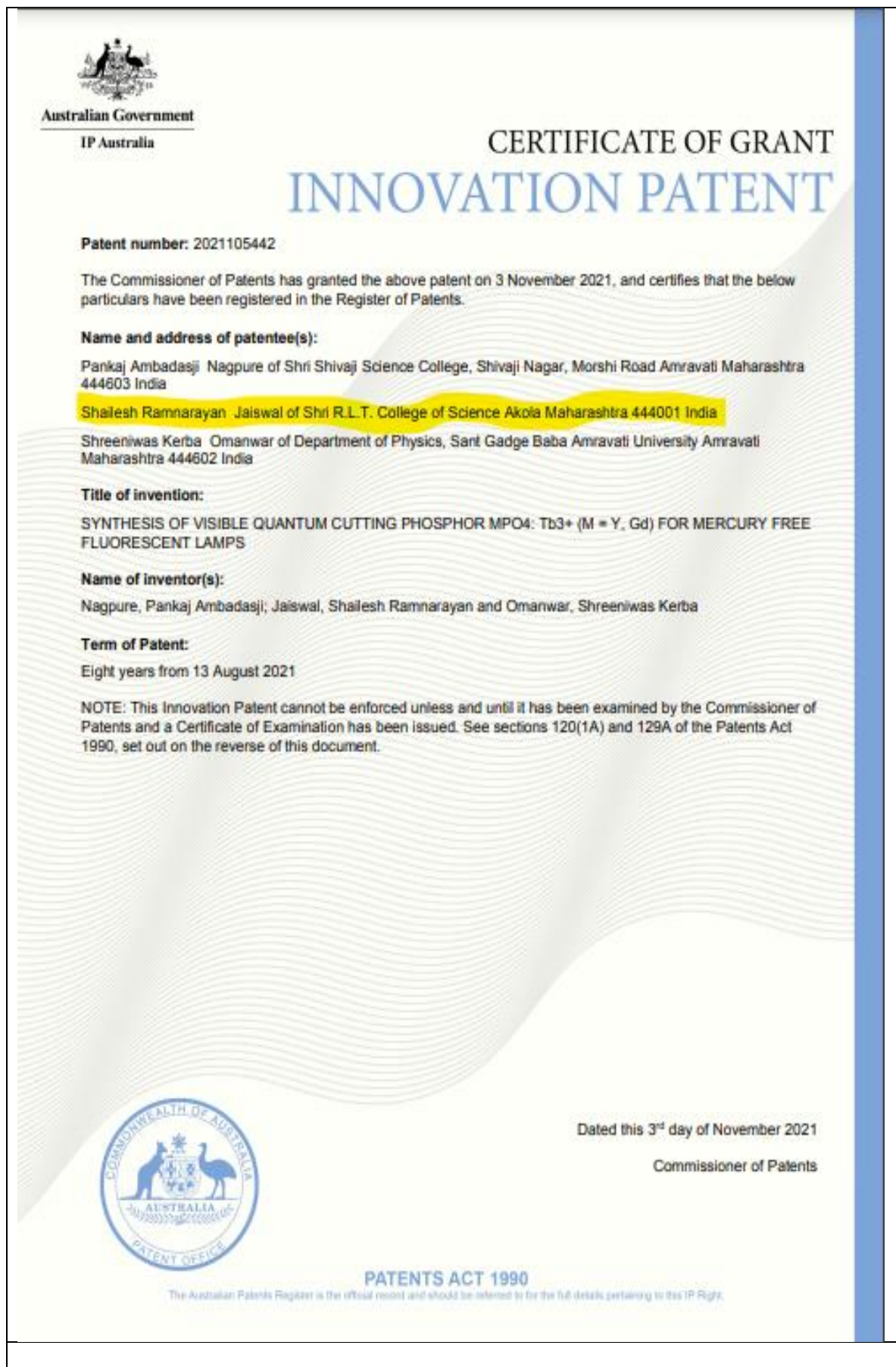
at present are not environmentally friendly but need to be an alternative system, which is why their research is important. For the last 25 years, the Luminescence Material

cury-free fluorescent lamps. Therefore, such lamps are an important step in the developmental direction of light and the light emitted from this fluorescent powder is based on the principle of quantum cutting. In the quantum cutting process, the inside of the fluorescent lamp is coated with fluorescent powder, a vacuum ultra violet VUV. Absorbs photons and emits two visible photons. So we can save a lot of energy and get lot of light spending less energy. Environmentally friendly Xenon molecules can be used to obtain vacuum ultra violet photons in these fluorescent lamps. Dr Dileep Malkhede, Vice-Chancellor of SGBAU, Dr Tusha Deshmukh, Registrar, Dr Gajanan Mule, HoD of Physics and teachers, students, officers and staff and many others have congratulated the project.



Development Laboratory, Department of Physics, SGBAU has been producing state-of-the-art material for various useful in sustainable development work. The original purpose of the substitute for imported products is to use the products made at a very low cost. In this research, researchers (YGD) formulated PO04: TB, an efficient green light emitting fluorescent powder, in a specific laboratory, which can be used in mer-

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES





## CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

### ➤ Evidence of success

#### Teachers: Role models for the students Few evidences



### Microbiologists Society, India

(Regl. No.MAH/4814/SAT)

Office,

Dr. A. M. Deshmukh

President,

Microbiologist Society,India

C-2/12, Parijatak Apartment, Naikwadi Nagar,

Osmanabad 413 501, (M.S.) INDIA.

Contact No. +91 9822079782M-09822079782

E-mail [amdeshmukh1@rediffmail.com](mailto:amdeshmukh1@rediffmail.com)

Date - 16-07-2018

To,

Dr. Nanoty Vijay Digambar

Principal

R.L.T.College of Science,

Akola-444001

Subject :- Appointment as a President.

Sir,

As you know that Microbiologist Society is an active nongovernmental organization working at National and International level, we are happy to appoint you as a President of Microbiologists Society for Amravati University Unit for the academic year 2018-19. Your duties will be as follows-

1. To contact every head of department of Microbiology and encourage them to start microbiologist society unit.
2. To promote them to arrange various activities related to Microbiology.
3. To help them to arrange resource persons.
4. To attend inaugural function, if possible.
5. To appoint co-coordinator and joint co-coordinator at University level.
6. Any other related to Microbiology

Wish You All The Best.... Thanking You...

Yours Sincerely,

Dr. A. M. Deshmukh

President,

Microbiologists Society, India

Principal Dr. V.D. Nanoty appointed as President of Microbiologist Society, India

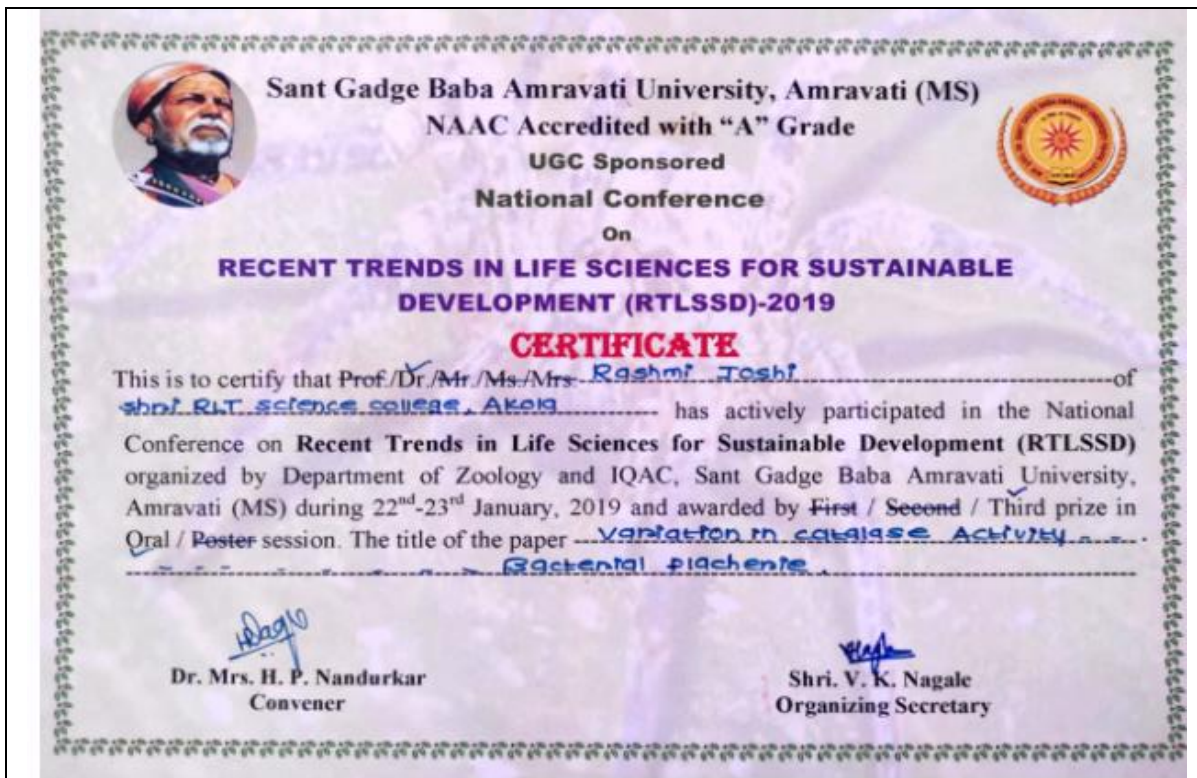
CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

Research awards / Recognitions to teachers for their innovative research





CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES



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**CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES**


**Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur**  
 organized National Conference  
 on  
**"Basics and Advances in Biological Sciences"**  
 in collaboration with  
 Technology & Energy Park, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur  
 &  
**Global Biotech Forum, Nagpur**  
**8<sup>th</sup> and 9<sup>th</sup> April 2022**

**Certificate**

This is to certify that Prof. / Dr. / Mr. / Mrs. / Ms. Sudhir Lushi Kohchale  
 of Shri R.L.T. College of Science, Akola has actively participated  
 in the National Conference on "Basics and Advances in Biological Sciences" organized by Dada  
 Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur in collaboration with Technology and Energy Park,  
 R.T.M. Nagpur University, Nagpur and Global Biotech Forum, Nagpur on 8<sup>th</sup> & 9<sup>th</sup> April 2022.  
 He/She has presented paper entitled Pathophysiology of Sickle Cell Anaemic Subjects; Cross  
sectional Study from Akola District Maharashtra (India)  
Poster Presentation - First Prize

 **Dr. S.G. Hate**  
 Organizing Secretary

 **Dr. Mrs. Zeenat Kashmiri**  
 Convener

 **Dr. V. M. Pendsey**  
 Officiating Principal



The Berar General Education Society's  
**Shri R.L.T. College of Science, Akola**  
 Re-accredited by NAAC with 'A' Grade, CGPA-3.12 (3<sup>rd</sup> Cycle)  
 Recognised by Government of Maharashtra, Affiliated to Sant Gadge Baba Amravati University, Amravati

**National Conference on**  
**Multidisciplinary Research in Science and Technology**  
**for Healthy Lifestyle Management**  
**NCMRST-2020**  
**Friday, 24<sup>th</sup> January 2020**

**Certificate**

This is to certify that,  
 Prof./Dr./Mr./Ms./Mrs. S. R. Kohchale  
 of Shri. R.L.T. college of science, Akola  
 has presented paper (Oral / Poster) entitled Effect of  
----- F. PENNANTI (WROUGHTON) in the  
 "National Conference on Multidisciplinary Research in Science and Technology  
 for Healthy Lifestyle Management" on Friday, 24<sup>th</sup> January 2020 and selected for the  
 "Best Paper Presentation Award".

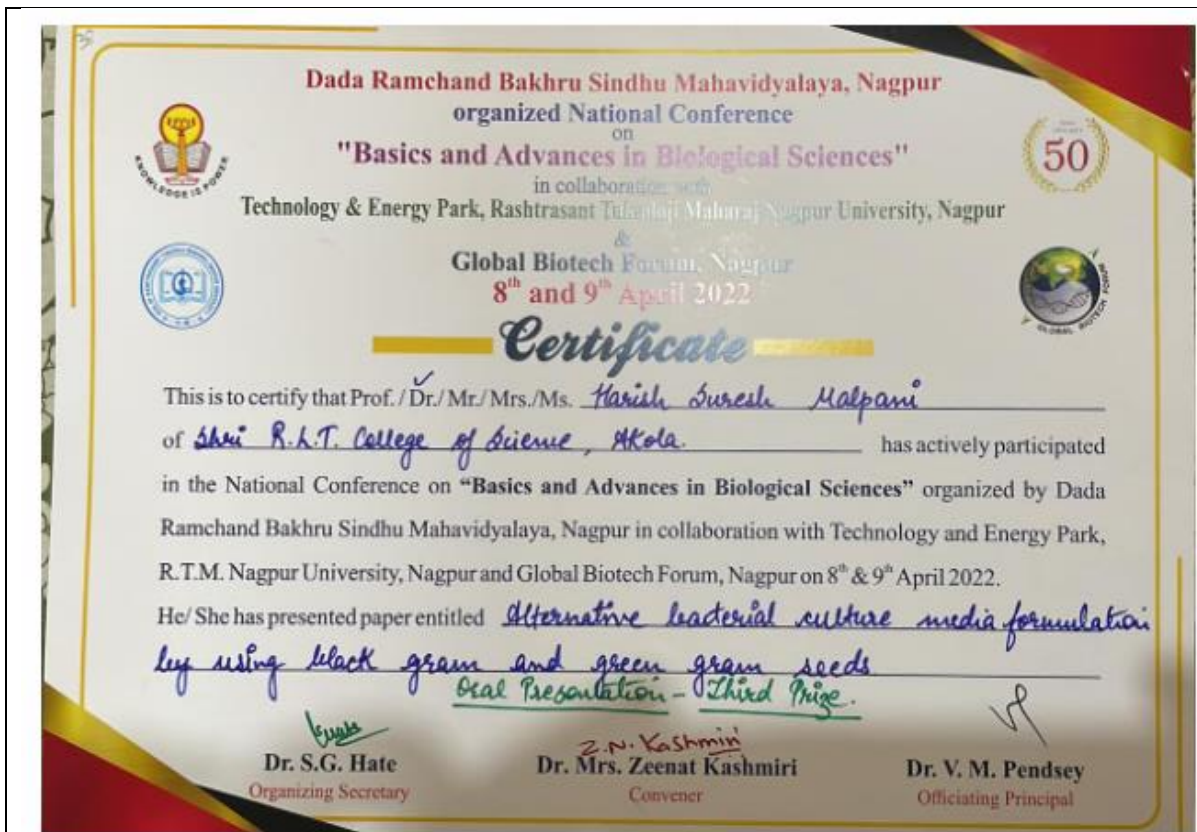
 **Dr. R.D. Chandrawanshi**  
 Organizing Secretary  
 NCMRST-2020

 **Dr. S.M. Nagrale**  
 Organizing Secretary  
 NCMRST-2020

 **Dr. P.T. Agrawal**  
 Organizing Secretary  
 NCMRST-2020

 **Dr. V. D. Nanoty**  
 Principal,  
 Shri R.L.T. College of Science, Akola  
 Convener, NCMRST-2020

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES






**CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES**

CERTIFICATE

Interdisciplinary National Conference on  
**RECENT INNOVATIONS IN AGRI-BIOSCIENCES IN  
 STRENGTHENING THE INDIAN ECONOMY : CHALLENGES &  
 PROSPECTS AND FARMERS MEET**

Organized by  
 Department of Botany & Department of Commerce  
**Dr. AMBEDKAR COLLEGE**  
 Deekshabhoomi, Nagpur-440010 (M.S.) India

In association with



Poster session Award


This is to certify that


Prof./Dr./Mr./Mrs./Ms. Sudhis R. Kothchade  
 of R.L.T. Science College, Akola


actively participated in *Interdisciplinary National Conference on Recent Innovations in Agri-Biosciences in Strengthening the Indian Economy : Challenges & Prospects and Farmers Meet (RIABSIECP-2020)* organized by Deptt. of Botany & Deptt. of Commerce, Dr. Ambedkar College, Deekshabhoomi, Nagpur in association with ICAR-Central Institute for Cotton Research, Nagpur, Sant Gadge Maharaj Mahavidyalaya, Hingna and Saibaba Arts & Science College, Parseoni on Saturday 1<sup>st</sup> Feb. 2020.


He/She presented Poster/Abstract No. SECOND PRIZE


He/She was Invited as Speaker/Chairperson/Judge/Co-ordinator for Technical Session .....

  
 Prof. R. V. Patil  
Chairperson

  
 Dr. V. N. Waghmare  
Chairperson

  
 Dr. (Mrs.) P. M. Siriya  
Convener

  
 Dr. S. R. Somkuwar  
Convener

  
 Dr. R. B. Kamble  
Organizing Secretary

**International e-Conference On New Horizons  
 And Multidisciplinary Applications In Science  
 And Technology (ICMA-2021)**

Organized by  
**Faculty of Science and IQAC Shri Vitthal Rukhmini  
 College, Sawana, Dist. Yavatmal, (MH) India.**



# Certificate

This is to certify that **Dr. Pravin Kawale**, R.L.T.College Akola has been selected for best paper presentation entitled **Evaluation of Antibacterial & Antioxident Properties of Indigenous Cow Urine** in the International e-Conference On New Horizons And Multidisciplinary Applications In Science And Technology (ICMA-2021) organized by Faculty of Science and IQAC Shri Vitthal Rukhmini College, Sawana on 11<sup>th</sup> to 13<sup>th</sup> October 2021.

  
 Organising  
Secretary  
**Asst. Prof. R.N. Ingole**

  
 IQAC  
Co-ordinator  
**Prof. Sheikh Bilal**

  
 Convener  
**Dr. Swati Tathod**

  
 Chairman  
**Dr. Hemant Mahalle**

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Shri R. L. T. College of Science, Akola

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**Thus, Institute honestly tried to provide rightful platform to inspire and explore new ideas among young pupils with an appetite for creativity and innovation.**

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