



SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S  
**SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI**



NAAC Accredited by Grade A with CGPA 3.13 (3rd Cycle)  
UGC awarded status of College with Potential for Excellence (2nd Phase)  
ISO 9000:2015 Certified College

Identified by DST , Govt. Of India for FIST & Sant GadgeBaba Amravati University as Lead College



4<sup>TH</sup> Cycle

Assessment & Accreditation by NAAC

Criterion-III

**RESEARCH, INNOVATIONS AND EXTENSION**

**Metric No: 3.51**

**Number of Collaborative activities**

for research, Faculty exchange, Student exchange/  
internship per year (10)

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Accredited by NAAC with 'A' grade with a CGPA of 3.13  
UGC Awarded College with Potential for Excellence ISO 9000:2015 certified College  
Identified by DST for FIST and SGB Amravati University as Lead College

## Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S.

❖ *Founder* : Dr. Panjabrao Alias Bhausaheb Deshmukh  
❖ *President* : Hon. Shri Harshwardhan P. Deshmukh  
❖ *Principal* : Dr. G. V. Korpe

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(O) 2660855; (Fax) 2665485; (R) 2551400

Ref. No.: SSSC/6471/IQAC/2021

Date: Nov. 22<sup>nd</sup>, 2021

### Declaration

The information, reports, true copies of the supporting documents, numerical data, etc. furnished in this file is verified by IQAC and found correct.

Hence this certificate.

  
H. S. Lunge  
IQAC Coordinator  
Shri Shivaji Science College  
Amravati



  
G. V. Korpe  
Chairman IQAC and Principal  
Shri Shivaji Science College,  
Amravati



## Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2016 - 2017

### Collaborative research work with Dr. S. K. Omanwar UGC-BSR Faculty Fellow, Department of Physics, SGBAU, Amravati



Dr. S. K. Omanwar  
UGC-BSR-Fellow  
Sr. Professor  
(HAG Scale)

#### DEPARTMENT OF PHYSICS

SANT GADGE BABA AMRAVATI UNIVERSITY, UNIVERSITY  
CAMPUS, NEAR TAPOVAN AMRAVATI-444602 (MS), INDIA

NAAC A Grade with CGPA 3.07 3<sup>rd</sup> Cycle w. e. f. 20-January 2016

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#### Collaborative Research Program-Recognition

*It is the honour for me to indicate the Collaborative Research Program is continued with the Faculty members of Physics Department of the Esteemed Affiliated College of the University "SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SHRI SHIVAJI SCIENCE COLLEGE" which is Accredited by NAAC with Grade A with CGPA of 3.13 (Third Cycle), UGC Awarded Status of College with Potential for Excellence (Second Phase), Identified by DST, Govt. of India for FIST & by Sant Gadge Baba Amravati University as Lead College.*

*It is to be indicated for recognition that the Research collaboration is in the form of active research activities with Faculties from Physics Department in the Field of Luminescence and its Applications. This collaboration is intensively observed from July 2015, the collaboration is of following types*

- Joint doctoral research programs
- Organizing Training workshops for the students and national events.
- Joint publications and research proposals
- Supervising the work of doctoral students
- Providing the available financial assistance to the doctoral students

*Specific mention could be made that two research scholars who were working in the research group since beginning their career are now supported financially as part time research assistants under UGC-BSR FACULTY Scheme which is awarded to me w.e.f. 1-7-2019 for three years initially. We have a rich research program of Developing Luminescent Materials for Sustainable Development.*

*I found the Faculty members of Physics Department as very actively involved in research activity. They follow the advices given time to time.*

S. K. Omanwar

Residence Address 104-B, saibhakti Appartments, Samartha Colony, Amravati-444606 (M.S.), India  
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**Collaborative publications of V.B. Bhatkar, S.K. Omanwar**

S.N.	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
1	V.P. Hedaoo, <b>V.B. Bhatkar</b> , S.K. Omanwar	Optical Materials 45, 91-96	2015	<a href="https://doi.org/10.1016/j.optmat.2015.02.037">https://doi.org/10.1016/j.optmat.2015.02.037</a>
2	R.N. Wankhade, N.S. Bajaj, <b>V.B. Bhatkar</b> , S.K. Omanwar	International Journal of Science, Environment and Technology 4 (1), 152-160	2015	<a href="https://ijset.net/journal/526.pdf">https://ijset.net/journal/526.pdf</a>
3	R.N. Wankhade, N.S. Bajaj, <b>V.B. Bhatkar</b> , S.K. Omanwar	Journal of the Chinese Advanced Materials Society 3 (4), 300-309	2015	<a href="https://doi.org/10.1080/22243682.2015.1074872">https://doi.org/10.1080/22243682.2015.1074872</a>
4	R.N. Wankhade, N.S. Bajaj, G.V. Korpe, <b>V.B. Bhatkar</b> , S.K. Omanwar	JOURNAL OF ADVANCEN IN PHYSICS 7(3), 1897-1905	2015	<a href="https://rajpub.com/index.php/jap/article/view/2278">https://rajpub.com/index.php/jap/article/view/2278</a>
5	V.R. Raikwar, <b>V.B. Bhatkar</b> , S.K. Omanwar	Indian Journal of Physics	2015	<a href="https://doi.org/10.1007/s12648-015-0726-4">10.1007/s12648-015-0726-4</a>
6	V.G. Thakare, P.A. Joshi, R.R. Godse, <b>V.B. Bhatkar</b> , P.A. Wadegaokar, S.K. Omanwar	Trends in Biomaterials and Artificial Organs 30 (2), 126-133	2016	<a href="https://www.researchgate.net/publication/321039578_Quality_enhancement_of_polycaprolactone_hydroxyapatite_nanocomposite_scaffold_using_novel_in-situ_sol-gel_method">https://www.researchgate.net/publication/321039578_Quality_enhancement_of_polycaprolactone_hydroxyapatite_nanocomposite_scaffold_using_novel_in-situ_sol-gel_method</a>
7	V.P. Hedaoo (Raikwar), <b>V.B. Bhatkar</b> , S. K. Omanwar	Journal of Alloys and Compounds 672, 653-659	2016	<a href="https://doi.org/10.1016/j.jallcom.2016.02.203">https://doi.org/10.1016/j.jallcom.2016.02.203</a>
8	S.R. Jaiswal, K.A. Koparkar, <b>V.B. Bhatkar</b> , S.K. Omanwar	Research Journal of Chemical Sciences 6 (6), 47-49	2016	<a href="http://www.isca.in/rjcs/Archives/v6/i6/10.ISCA-RJCS-2016-122.php">http://www.isca.in/rjcs/Archives/v6/i6/10.ISCA-RJCS-2016-122.php</a>

**Collaborative publications of P A Nagpure and, S.K. Omanwar**

S.N.	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
1	<b>P.A. Nagpure</b> , S.K. Omanwar	Indian Journal Pure and Applied Physics 53 (2), 77-81	2015	<a href="http://nopr.niscair.res.in/handle/123456789/30509">http://nopr.niscair.res.in/handle/123456789/30509</a>
2	S. R. Jaiswal, <b>P.A. Nagpure</b> , V. B. Bhatkar, S. K. Omanwar	International Journal of Luminescence and applications 6 (2), 131-134	2016	<a href="http://ijlindia.org/wp-content/uploads/2015/07/Volume6/Issue2/183.pdf">http://ijlindia.org/wp-content/uploads/2015/07/Volume6/Issue2/183.pdf</a>
3	S.R. Jaiswal, N.S. Sawala, K.A. Koparkar, <b>P.A. Nagpure</b> , V.B. Bhatkar, S.K. Omanwar	St. Petersburg Polytechnical University Journal: Physics and Mathematics	2017	<a href="https://doi.org/10.1016/j.spjpm.2017.06.005">https://doi.org/10.1016/j.spjpm.2017.06.005</a>
4	N.S. Bajaj, K.A. Koparkar, <b>P.A. Nagpure</b> , S.K. Omanwar	Journal of Optics 46 (2), 91-94	2017	<a href="https://doi.org/10.1007/s12596-016-0344-3">https://doi.org/10.1007/s12596-016-0344-3</a>
5	S.R. Jaiswal, N.S. Sawala, <b>P.A. Nagpure</b> , V.B. Bhatkar, S.K. Omanwar	Journal of Materials Science: Materials in Electronics 28 (3), 2407-2414	2017	10.1007/s10854-016-5811-8

## Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2017 – 2018

### Laboratory Sessions for Teachers participants of UGC Sponsored Refresher Course in Physics



**UNIVERSITY GRANTS COMMISSION  
HUMAN RESOURCE DEVELOPMENT CENTRE  
SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI**

Phone : 0091-721- 2551174

Website : [www.ascsgbau.ac.in](http://www.ascsgbau.ac.in)  
Email : [asc.sgbau@rediffmail.com](mailto:asc.sgbau@rediffmail.com)

Date : 9/07 / 2017

To,

✓ Dr. Pankaj Nagpure Department of Physics Shri Shivaji Science College Amravati	Dr. Barde Department of Physics Shri Shivaji Science College Amravati
--	---

Dear Sir / Madam,

The UGC- Human Resource Development Centre, is organising UGC sponsored **Refresher Course in Physics** for teachers participant during **10<sup>th</sup> July, 2017 to 29<sup>th</sup> July, 2017**. It is indeed a pleasure to invite you to conduct lab-session on 14-July 2017 between 2.15 pm to 5.30 PM, at your own laboratory, which will be beneficial to the teachers to equip them to perform better in their lab assignments. As per your consent given your schedule is indicated in the following table. Please inform us the topics of your lectures.

Sr. No.	Date	Time	Activity
1.	July 14, 2017	14.15 to 17.30 hrs	Each participant will perform for his/her assignment under your active guidance and advice.

You will be paid an honorarium of Rs. 1500/- for the above assignment.

You requested to fill the forms (CV, Questionnaire-MCQs, and bank details) and send the same in advance as an attachment to e-mail and hard copies on arrival to Amravati.

Thanking you very much for your consent and time for this cause.  
With Warm regards,

Prof. S. K. Omanwar  
Course Coordinator  
Refresher Course in Physics

Dr. P. A. Wadegaonkar  
Director, HRDC, SGBAU  
Amravati



## Lab Sessions of Refresher Course in Physics organized by UGC-HRDC SGBAU Amravati (09-29 July 2017)

Each participant of Refresher Course in Physics organized by UGC-HRDC SGBAU Amravati (09-29 July 2017) was allotted an open ended experiment to perform, to analyze and to demonstrate and present. The execution of these experiments by the participants were done at the Physics Laboratories of the College under the supervision of faculty members of Physics department.

Thirty four participants from different universities of state and outside of the Refresher course conducted the experiments based on optics, mechanics, electronics, modern physics, nuclear physics, solid state physics. The presentations of the results of these experiments were also evaluated by the faculty members of Physics department.



Participants of Refresher Course in Physics organized by UGC-HRDC SGBAU Amravati (09-29 July 2017) attended the Lab Sessions at Physics Laboratories of the College



Resource Persons from Shri Shivaji Science College, Amravati were Dr. W. S. Barde, Dr. P. A. Nagpure and Teacher participants of UGC Sponsored Refresher Course in Physics during 10-29 July 2017 have attended the course.



## **Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2018 - 2019**

### **Student Exchange Between Anandarm Dhekial Phookan College (A. D. P College), Nagaon, Assam and Sri Pratap College, Jammu Kashmir and Maharashtra with Faculty Exchange between Maharashtra and Tamilnadu**

Under the NE twining programme envisioned in the Foldscope Project Scheme. Principal Investigator Dr. Dinesh Khedkar established collaboration with Dr. Mousmi Saikia, Anandarm Dhekial Phookan College (A. D. P College), Nagaon, Assam and Dr. Roohi Mushtaq, Sri Pratap College, Cluster University, Srinagar and Muthyammal College, Rasipuram, Tamilnadu. In this collaboration the agreed terms and conditions supported for the research and student's exchange. Following Exchanges were carried out under the said program -

1. North East Students visited Amravati during 9<sup>th</sup> Oct. to 10<sup>th</sup> Oct. 2018. This Exchange Program was one day Twining Sessions to explore opportunities of research through Foldscope and visit to the Ankur Seeds Company, Nagpur.
2. 34 Students from Shri Shivaji Science College, Amravati has also visited Assam under the similar program during 24<sup>th</sup> Nov. 2018 to 2<sup>nd</sup> Dec. 2018. This visit includes Kolkata, Guwahati, Nagaon, Kaziranga and Shillong. Besides, twinning partner institute, Indian Council of Agricultural Research was also explored. Dr. Krishnappa and other three Principal Investigators were working in this centre for different research areas with foldscope.
3. The Junior research fellow and the B. Sc. Final year students are simultaneously working on the research target under the project. 10 groups of the students with 10 to 12 students in each group are exploring the Leaf Surface Diversity in the plants in and around city of Amravati. Many of the students are now at the stage to publish their research as an article in reputed journal of research. The outstanding achievement of the project is to inculcate social responsibility, communication skill and research attitude in the students at early stage of them under graduate studies.
4. Four M.Sc. Research Projects based on Foldscope were submitted to University as partial fulfilment of the PG Degree in the session 2018-19, all have awarded with the degree.
5. Research outcomes in M.Sc. Projects based on Foldscope were presented in National Conference held at Institute of Science, Nagpur. Four students presented papers during 6 – 7 March, 2019.
6. In collaboration with Muthyammal College, Rasipuram, Tamilnadu. “One day National Seminar” was jointly organized and conducted at Rasipuram on 26-27<sup>th</sup> Sept. 2019.
7. Innovative Workshop was conducted as Mission Foldscope: with a vision to cultivate one million children as Neotric Innovator and Foldscope with every child. The programme was coordinated by Mr. Pravin Patankar, Foldscope PI on 23<sup>rd</sup> Jan. 2019 at Shri L. C. Kherde Junior College, Karajgaon, Dist Amravati.

## Student Exchange Program

November 27<sup>th</sup> – 28<sup>th</sup>, 2018



The group of students participating in the “Students’ Exchange Programme’ at Amravati



Dr. Anupama Harshal, K. C. College, Mumbai conducting Session on Research Opportunities



Students Participated in Exchange Programme at Nagaon









Group of Students at ICAR



Students at ICAR Shillong Lab with Dr. Krishnappa

**SHRI SHANKARRAO EDUCATION SOCIETY, KARAJGAON'S**  
Tq. Chandur Bazar, Dis. Amravati (Raga. No. F-110 Amb.)

**Shatabdi Mahotsav 1919-2019**

**SHRI L.C. KHERDE JUNIOR COLLEGE, KARAJGAON**

INAUGURATION OF

**MISSION FOLDSCOPE**

**With a Vision**  
To cultivate one million children as Neotric innovator and foldscope with every child

**Wednesday, 23<sup>rd</sup> January 2019**

**- Chelf Guest -**  
**Hon. Dr. Praveen Rahi**  
NCCS Pune University

**- Chairperson -**  
**Hon. Mr. Shashank V. Sonar**  
President, Shri Shankarrao Education Society, Karajgaon

**Hon. Mr. Sandip D. Sonar**  
Vice President, Shri Shankarrao Education Society, Karajgaon

**Hon. Mr. Ganesh A. Madghe**  
Secretary, Shri Shankarrao Education Society, Karajgaon

**- Guest -**

**Hon. Dr. Dileep Malkhede**  
Adver AICTE, New Delhi

**Prof. Dipalee D. Malkhede**  
Principal Investigator & Mentor, Foldscope Project  
Savitribal Phule Pune University, Pune

**Hon. Dr. Dinesh D. Khedkar**  
Foldscope Project Investigator  
Shri Shivaji Science College, Amravati

**Hon. Mr. Mohan Ghongate**  
Princlipal Investigator Foldscope Project  
Bharat Vidyalyaya, Buldhana

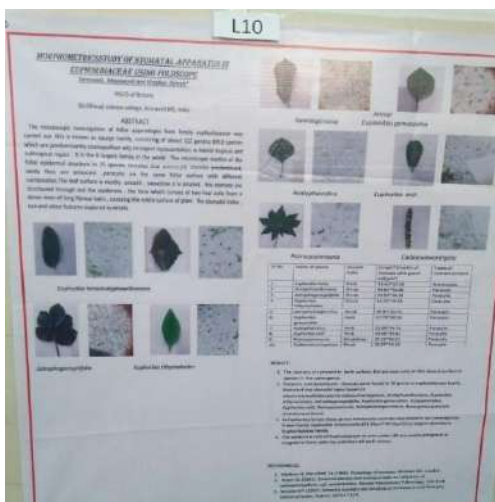


**Mission Foldscope**



One Day national seminar cum workshop on Foldscope Assembling, Imaging and Applications at Muthyammal College, Rasipuram, Tamilnadu On 26-27/09/2019

**PRESENTATIONS OF RESEARCH PAPERS AT NAGPUR**



**Following are the unique outcomes of the Collaborations under the project -**

1. Students are exploring many ways to use the foldscope.
2. The critical approach of the students is developing through this project leading them towards better research.
3. Conducting research at undergraduate level is an outstanding concept came up out of the project.
4. Students' Exchange programme with the North East partner of the project resulted into exchange of thoughts between students of remote places.
5. The scientific publications to the credit of the UG students will be exceptional thing in the lives of the students and history of the institution.
6. Research papers presentation at National level conference.



**Dinesh D. Khedkar**  
M. Sc., Ph. D. (NET, SET)  
Associate Professor in Botany

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To,  
Dr. Mousmi Saikia  
Anandarm Dhekial Phookan College (A. D. P College)  
Nagaon, Assam

**Through:** The Principal, Shri Shivaji Science College, Amravati, MS, India

**Subject:** Request to twin project Under the Foldscope Scheme

**Reference:** Admin order No. BT/TN/Indo-US/Foldscope/39/2015 dated 20.03.2018 from DBT

Dear Mam,

In connection with the admin order cited under reference, I am delighted to share with you that, the project proposal sanctioned in my favour is "Study of Leaf Surface Diversity in the plants in and around the city of Amravati" under the Foldscope Scheme for Category B (Non-NER).

I am humbly submitting that, as per sanction order we need to twin project with the Principal Investigators from North East Region. In this regards, I came to know that, you are undertaking the similar kind of project under this scheme. So it will be apt to collaborate for further progress in the project.

I understand that, under the twinning of the project we are expected to collaborate in the following ways and means –

1. Interact and Exchange for the better outcome of the research undertaken by both PIs.
2. Organize visits for interaction between the students of both the region under the outreach programme.
3. To know the diversity of both the regions through fieldwork.
4. Organize workshops in collaboration for the students and the faculties.
5. To satisfy, any other requirements as and when conveyed by authorities.

Therefore, you may be obligingly requested to kindly consider the proposal of twinning and hope you will reply positively at an earliest possible to convey the same to sanctioning authority.

Thanking you in anticipation.

**Place :** Amravati

**Date :** 18<sup>th</sup> July, 2018



Yours Sincerely

(D. D. Khedkar)

Principal

Shri Shivaji Science College, Amravati

**Copy to:** Dr. Vaishali Panjabi, Scientist D, Department of Biotechnology (Foldscope Team) for information





**DEPARTMENT OF HERBAL SCIENCE & TECHNOLOGY  
ANANDARAM DHEKIAL PHOOKAN COLLEGE**

NAAC Accreditation 'A' Grade 2016  
Nagaon – 782002, Assam, India, Estd. 1959  
(Under GAUHATI UNIVERSITY, Guwahati, 781014, Assam)  
Website: www.adpcollege.ac.in

**Dr. Mousmi Saikia, M.Sc., Ph.D.**  
Assistant Professor & Head

Mobile no : 9854281979  
Email : mousmi3@rediffmail.com  
hstadv@gmail.com

To,  
Dr. Dinesh D. Khedkar,  
Associate Professor,  
Department of Botany,  
Shri Shivaji Science College, Amravati, Maharashtra,

**Through: The Principal, Anadaram Dhekial Phookan College, Nagaon, Assam**

**Subject: Consent letter for Collaboration of the projects under the Foldscope Scheme**

**Reference: Sanction order no. BT/IN/Indo-US/Foldscope/39/2015 dated 20.3.2018**

Sir,

I am pleased to inform you that my institution is working on the project entitled "Microscopic Characterization of Herbal Medicines of North East India" under the Foldscope grant received from the DBT, Ministry of Science and Technology, Govt. of India.

With reference to the guidelines of the sanctioned grant from the Foldscope, we need to twin our project with the Principal Investigators from Non-NER region for the exchange of ideas and interaction with the students under the programme. I hereby give my consent and extend a collaborative hand with you and your institution.

Thanking you.

**Place: Nagaon**

**Date: 1<sup>st</sup> August, 2018**

Yours Sincerely

*Mousmi Saikia*  
(M. Saikia)

**Recommended and forwarded for necessary action.**

*21/7/18*  
Principal  
ADP College,  
Nagaon, Assam  
**Principal**  
**A.D.P. COLLEGE**  
**Nagaon (Assam)**

## Training of Mushroom Identification

Mr. Mukund Fiske attended the Training of Mushroom Identification at Dept. of Botany, Panjab University, Patiyala

NAAC Re Accredited with Grade "A"  
**Shri Shivaji Science College**  
 Shivaji Nagar, Morshi Road, Amravati.

❖ Founder : Dr. Panjabrao Alias Bhausaheb Deshmukh  
 ❖ President : Adv. Harshvardhan Deshmukh  
 ❖ Principal : Dr. V.G. Thakare  
 ❖ Website : www.shivajiscamt.org



☎ Office : 2660855  
 : 2665485  
 Resi. : 2551400

Date: 14 /09 /2018

To,  
 Dr. N.S. Atri  
 Department of Botany  
 Punjabi University,  
 Patiala

**Subject: Permission for training of Mushroom Identification**

Dear Sir,

With reference to above subject Mr. Mukund Fiske is student of M.Sc. II Botany (Mycology and Plant Pathology specialization) working for project work entitled "Morphotaxonomy of Mushrooms of Melghat Forest of Amravati MS" under the supervision of Dr. D.V. Hande, Department of Botany, Associate Professor, at our college.

We know you are expertise in the field of Mushroom Taxonomy. Therefore I request you to permit him for the said training for which we will be grateful to you. I hope you will accept our request positively.

Thanking you.

*[Handwritten signature]*  
 14.9.18

*[Handwritten signature]*  
 Head 14/9/18  
 Department of Botany



*[Handwritten signature]*  
 (Dr. V.G. Thakare)  
 Principal  
 Shri Shivaji Science College,  
 AMRAVATI.

## Internship programme at Arraygen Technologies Pvt. Ltd., Pune in M. Sc. Bioinformatics



Accredited by NAAC with "A" grade (very good) with a CGPA of 3.13  
 SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
**SHRI SHIVAJI SCIENCE COLLEGE**  
*College with Potential for Excellence.*

Shivaji Nagar, Morshi Road, Amravati - 444 603, M.S.

Founder Dr. Panjabrao Aaras Bahuasahel Deshmukh  
 President Shri. Harshavardhan Pratapsinh Deshmukh  
 Principal Dr. V. G. Thakare

E-mail: shivajiscamitoffice@gmail.com Website: www.shivajiscamit.org  
 Off. (0721) 2669855; Res. (0721) 2551400, 2553130, Comp. Dept. (0721) 2551366 Fax: (0721) 2065405

Ref. No. SC/Amravati/Inf/2016/2016 Date: 5 / 9 / 2016

### LETTER OF COLLABORATION

between

SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI'S  
 P.G. DEPARTMENT OF BIOINFORMATICS

and

ARRAYGEN TECHNOLOGIES, PVT. LTD. PUNE-411 038

This Letter of Collaboration is designed to foster a friendly relationship through mutual cooperation in internship program between P. G. DEPARTMENT OF BIOINFORMATICS and ARRAYGEN TECHNOLOGIES PVT. LTD. PUNE. No financial obligations are assumed under this agreement.

P.G. DEPARTMENT OF BIOINFORMATICS, SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI and ARRAYGEN TECHNOLOGIES PVT. LTD., PUNE have reached agreement on the following areas of cooperation, subject to mutual consent:

- To run the internship program for M.Sc.-II students
- Project work in the form of dissertations
- Exchange of academic materials and other information
- Special short-term academic programs
- Arrange guest lectures
- Participation in seminars and academic meetings

The terms of such mutual assistance and funding for any specific program and activity shall be mutually discussed and agreed upon by both parties prior to the initiation of a particular program. Each institution will designate an individual to coordinate this program and all endeavors that may derive from it.

This Letter of Collaboration shall commence on the date of latest signature and be in effect for five years, at which time it shall be reviewed for possible extension.



5/9/2016

**DR. GANESH B. HEDAWOO**

Co-ordinator  
 Department of Bioinformatics  
 P.G. Department of Bioinformatics  
 Shri Shivaji Science College, Amravati  
 sscbioinformatics@gmail.com

Date: 5/9/2016




**MR. RAJESH KUMAR MAHATO**

Founder and CEO  
 ArrayGen Technologies Pvt. Ltd., Pune  
 info@arraygen.com

Date:

5/9/2016





**ArrayGen Technologies**

Godai Niawas 19, Shivaji Chowk,  
Mokate Chawl, Kothrud,  
Near Shivaji Statue, Pune - 411 038.  
E-mail : [info@arraygen.com](mailto:info@arraygen.com)  
Phone : 020-65228007  
Mobile : 9673625446  
Website : [www.arraygen.com](http://www.arraygen.com)

**CIN No.:** U74900PN2015PTC157410**PAN No:** AANCA9623K**CERTIFICATE****2017-2018**

This is to certify that **Miss. Vaishnavi Umesh Marodkar** has completed the project – “**Variation Detection from NGS using (DNA Seq.) Whole Exome Liver Cancer case.**” Under my guidance and submitted the project report. laid down by **Sant Gadge Baba Amravati University**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of Master of Science in Bioinformatics.

Signature of Guide

Rajesh Kumar Mahato  
(founder & CEO)

ArrayGen Technologies Pvt. Ltd.

Phone: +91-020-25395446



## Internship programme at Sant Gadgebaba Amravati University, Amravati for M. Sc. Bioinformatics

	<p>Accredited by NAAC with "A" grade (very good) with a CGPA of 3.13</p> <p><b>SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S</b>  <b>SHRI SHIVAJI SCIENCE COLLEGE</b>  <i>College with Potential for Excellence.</i></p>
	<p><b>Shivaji Nagar, Morshi Road, Amravati - 444 603, M.S.</b></p> <p>Founder : Dr. Panjabrao Alias Bahusaheb Deshmukh          President : Shri. Harshavardhan Pratapsinh Deshmukh          Principal : Dr. V. G. Thakare</p> <p>E-mail : shivajiscamt.office@gmail.com Website : www.shivajiscamt.org          Off. : (0721) 2660855; Res. (0721) 2551400, 2553130, Comp. Dept. : (0721) 2551366 Fax : (0721)2665485</p>
<p>Ref. No. SC/Bioinfo/Intern./ 2017</p>	<p>Date: 06/12/2017</p>

### LETTER OF COLLABORATION

between

**SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI'S**  
**P. G. DEPARTMENT OF BIOINFORMATICS**

and


**DEPARTMENT OF BOTANY**  
**SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI**

This Letter of Collaboration is designed to foster a friendly relationship through mutual cooperation in internship program between P. G. DEPARTMENT OF BIOINFORMATICS and DEPARTMENT OF BOTANY, SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI.

P. G. DEPARTMENT OF BIOINFORMATICS, SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI and DEPARTMENT OF BOTANY SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI have reached agreement on the following areas of cooperation, subject to mutual consent :


- To run the internship program for M.Sc.-II students
- Project work in the form of dissertations
- Research development
- Arrange guest lectures
- Participation in seminars, conferences, Botanical society events and academic meetings

This Letter of Collaboration shall commence on the date of latest signature and be in effect for three years, at which time it shall be reviewed for possible extension.

  
 06/12/2017

**DR. GANESH B. HEDAWOO**  
 Coordinator, P. G. Department of Bioinformatics  
 P. G. Department of Bioinformatics  
 Shri Shivaji Science College, Amravati, MS.  
 sscbioinform@amv.ac.in



  
**DR. JAYKIRAN A. TIDKE**  
 Professor and Head, Department of Botany,  
 Sant Gadge Baba Amravati University,  
 Amravati, MS.  
 hodbotany@amv.ac.in

## Certificate

This is to certify that the project entitled “**Target Identification and Molecular Docking for *Burkholderia pseudomallei***” has been completed by Miss. Mitali B. Ghormade under my supervision during the academic session 2017-2018 as a partial fulfillment of project of M.Sc. Part II Semester IV in Bioinformatics at Department of Botany, Sant Gadge Baba Amravati University, and Amravati. This report or a similar report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

Place: *Amravati*  
Date: *28<sup>th</sup> April 2018*

  
Signature of Supervisor

Dr. (Mrs.) V. N. Nathar

Professor  
Department of Botany,  
Sant Gadge Baba Amravati University, Amravati.

Place: *Amravati*  
Date: *02/05/2018*

  
Signature of Head

Dr. (Mr.) J. A. Tidke

Professor and Head  
Department of Botany,  
Sant Gadge Baba Amravati University, Amravati.




Professor and Head  
Department of Botany  
Sant Gadge Baba Amravati University  
Amravati



CERTIFICATE


This is to certify that the dissertation entitled **“Utility of DNA Barcode in Butterflies Identification with Special Reference to Maharashtra State”** which is being submitted herewith for the award of M.Sc. Bioinformatics, is the result of the work completed by **Ms. Radhika A. Somwanshi** under my supervision and guidance within the four walls of the institution and the same has not been submitted elsewhere for the award of any degree.

  
**Prashant A. Gawande**  
 Assistant Professor  
 Department of Botany  
 Sant Gadge Baba Amravati University  
 Amravati

**Guide**  
**Dr. P.A. Gawande**  
 (Associate professor)  
 Department Of Botany  
 Sant Gadge Baba Amravati University  
 Amravati

**Date:** 4-12-18

**Place:** Amravati

  
**Dr. J. A. Tidke**  
 Professor and Head  
 Department of Botany  
 Sant Gadge Baba Amravati University  
 Amravati

**Signature of Head**  
**Dr. J. A. Tidke**  
 (Professor and Head)  
 Department of Botany  
 Sant Gadge Baba Amravati University  
 Amravati

**Date:** 4-12-18

**Place:** Amravati

## Certificate

This is to certify that the project entitled “**Study of *rbcL* and *matK* Gene Sequences and Establishment of Phylogenetic relationship using computational method in Zinziberales**” has been completed by Miss. Rutuja S. Wankhade under my supervision during the academic session 2017-2018 as a partial fulfillment of project of M.Sc. Part II Semester IV in Bioinformatics at Department of Botany, Sant Gadge Baba Amravati University, and Amravati. This report or a similar report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

Place: *Amravati*

Date: *02/05/2018*



Signature of Supervisor

Dr. (Mr.) J. A. Tidke

Professor and Head

Department of Botany

Sant Gadge Baba Amravati University, Amravati.



## Internship programme at Govt. Pharmacy College, Amravati for M.Sc. Bioinformatics

Accredited by NAAC with "A" grade (very good) with a CGPA of 3.13

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S**  
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Founder : Dr. Panjabrao Alias Bahusaheb Deshmukh  
 President : Shri. Harshavardhan Pratapsinh Deshmukh  
 Principal : Dr. V. G. Thakare

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E-mail : shivajiscamt.office@gmail.com Website : www.shivajiscamt.org  
 Off. : (0721) 2660855; Res. (0721) 2551400, 2553130, Comp. Dept. : (0721) 2551366 Fax : (0721)2665485

Ref. No. SC/Bioinfo. Intern/ 2017

Date : 01 / 12 / 2017

### LETTER OF COLLABORATION

between

**SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI'S**  
**P. G. DEPARTMENT OF BIOINFORMATICS**

and

**GOVERNMENT COLLEGE OF PHARMACY, AMRAVATI**


This Letter of Collaboration is designed to foster a friendly relationship through mutual cooperation in internship program between **P. G. DEPARTMENT OF BIOINFORMATICS** and **GOVERNMENT COLLEGE OF PHARMACY, AMRAVATI**.

P. G. DEPARTMENT OF BIOINFORMATICS, SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI and GOVERNMENT COLLEGE OF PHARMACY, AMRAVATI have reached agreement on the following areas of cooperation, subject to mutual consent :

- To run the internship program for M.Sc.-II students
- Project work in the form of dissertations
- Exchange of academic materials and other information
- Special short-term academic programs
- Exchange and authentication of research materials
- Arrange guest lectures
- Participation in seminars and workshops

The terms of such mutual assistance and funding for any specific program and activity shall be mutually discussed and agreed upon by both parties prior to the initiation of a particular program. Each institution will designate an individual to coordinate this program and all endeavors that may derive from it.

This Letter of Collaboration shall commence on the date of latest signature and be in effect for three years, at which time it shall be reviewed for possible extension.



1/12/2017

DR. G. B. HEDAWOO, Co-ordinator  
 Coordinator, P.G. Department of Bioinformatics  
 Shri Shivaji Science College, Amravati MS.  
[sscbioinformatics@gmail.com](mailto:sscbioinformatics@gmail.com)

Date: 1<sup>st</sup> Jan. 2017




DR. S. S. KHADABADI  
 Principal, Government College of  
 Pharmacy, Amravati College,  
 Amravati  
[principal.gcopamravati@maharashtra.gov.in](mailto:principal.gcopamravati@maharashtra.gov.in)

Date: 1<sup>st</sup> Jan / 2017



Dr. B. A. Baviskar  
Asst. Professor,  
Government College of Pharmacy,  
Kathora Naka, Amravati-444604



### CERTIFICATE

This is to certify that the research work presented in this dissertation is entitled “**3D QSAR Study on 2-aminothiazole inhibitors of CDK 5/p25 as a potential treatment for Alzheimer disease**” by **Miss. Apeksha Sanjay Tekade** (P. G. Department of Bio-informatics, Shri Shivaji Science College, Amravati) in partial fulfillment for the requirements of the degree of **Master of Science ( Bio-informatics)** in the faculty of Pharmaceutical Sciences, Sant Gadge Baba Amravati University, Amravati is carried out under my guidance and to my satisfaction such materials as obtained from other sources have been duly acknowledged in the thesis. The thesis is now ready for examination.

Dr. B. A. Baviskar

Research Guide  
Dr. Bhushan A. Baviskar  
Assistant Professor  
Govt. College of Pharmacy  
AMRAVATI-444604.

Date: 27/04/2018

Place : Amravati

**Dr. B. A. Baviskar**

Asst. Professor,

Government College of Pharmacy,

Kathora Naka, Amravati-444604



### CERTIFICATE

This is to certify that the research work presented in this dissertation is entitled "**Computational approaches in target identification and drug interaction studies for Bacillus subtilis**" by Miss. **Kalpana Niranjan Manwar** (P. G. Department of Bio-informatics, Shri Shivaji Science College, Amravati) in partial fulfillment for the requirements of the degree of **Master of Science (Bio-informatics)** in the faculty of Pharmaceutical Sciences, Sant Gadge Baba Amravati University, Amravati is carried out under my guidance and to my satisfaction such materials as obtained from other sources have been duly acknowledged in the thesis. The thesis is now ready for examination.

**Dr. B. A. Baviskar**

**Research Guide**

**Dr. Bhushan A. Baviskar**  
Assistant Professor  
Govt. College of Pharmacy  
AMRAVATI-444604.

Date: 27/04/2018

Place: Amravati



**Dr. B. A. Baviskar**

**Asst. Professor,**

**Government College of Pharmacy,**

**Kathora Naka, Amravati-444604**



### **CERTIFICATE**

This is to certify that the research work presented in this dissertation in entitled “**2D QSAR study on a series of 2-aminothiazole inhibitors of CDK 5/p25**” by **Miss. Ujwala Marotrao Pakade** (P. G. Department of Bio-informatics , Shri Shivaji Science College, Amravati ) in partial fulfilment for the requirements of the degree of **Master of Science ( Bio-informatics)** in the faculty of Pharmaceutical Sciences, Sant Gadge Baba Amravati University , Amravati is carried out under my guidance and to my satisfaction such materials as obtained from other sources have been duly acknowledged in the thesis. The thesis is now ready for examination.

**Dr. B. A. Baviskar**

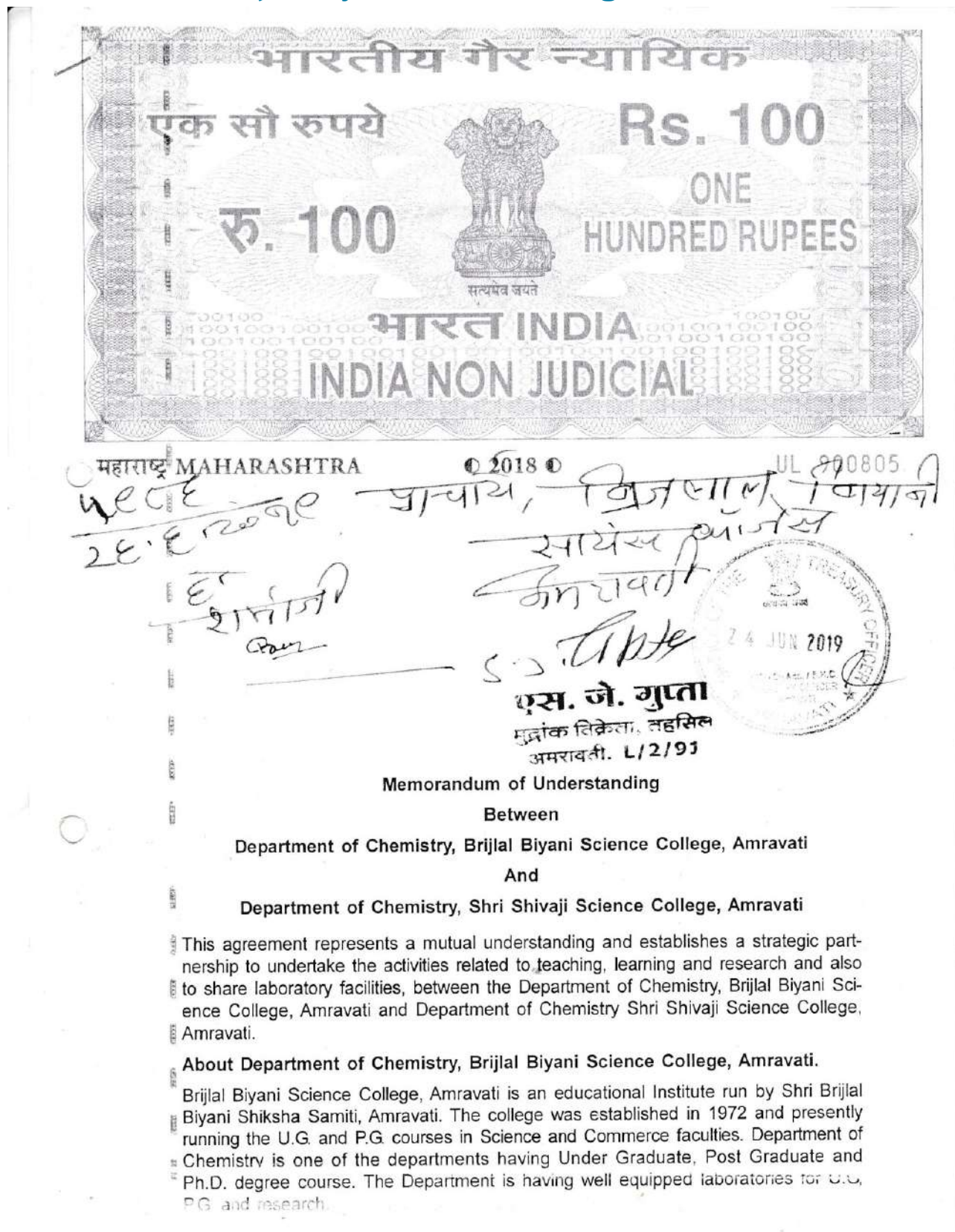
**Research Guide**

**Dr. Bhushan A. Baviskar**  
Assistant Professor  
Govt. College of Pharmacy  
AMRAVATI-444604.

**Date:** 27/04/2018

**Place :** Amravati

## Activities conducted under the Academic and Research Collaboration established between Shri. Shivaji Science College, Amravati and Brijlal Biyani Science College, Amravati



### About Department of Chemistry, Shri Shivaji Science College, Amravati

Shri Shivaji Science College, Amravati is one of the premier institutes of Shri Shivaji Education Society, Amravati. This institute is imparting formal education in U.G. and P.G. in Science stream and also produces several Ph.D. holders in science faculty. Department of Chemistry is one of the departments in Shri Shivaji Science College having U.G. P.G. and Ph.D. courses. The department is fully equipped with sophisticated instruments required for teaching and research purpose. The college is having well equipped central instrumentation laboratory full with useful instruments for P.G. & Ph.D. students.

#### In joint venture following activities will be conducted.

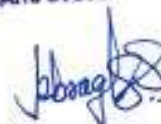
- \* For the benefit of the students of both the institutes, faculty exchange will be implemented
- \* During the organization of Guest lecture of eminent personality, students of both institutes will be invited.
- \* Laboratory equipments of both the departments will be accessible to research and P.G. students subject to the permission by the principals of respective institute.
- \* CIC will be available for research students.
- \* Cooperate in the exchange of information relating to their activities in teaching and research in fields of mutual interests.

#### Duration:-

This memorandum of understanding shall become effective upon signature by the Principal of Brijlal Biyani Science College, Amravati and Shri Shivaji Science College, Amravati. This MOU shall be for a period of five years and may be renewed upon mutual written agreement. Amendments will be made deemed necessary and agreed to by the signing parties. The MOU may be terminated by either part with notification to other party, one month prior to the effective date of the termination.



  
Dr. N.G. Belsare  
Principal  
Brijlal Biyani Science College  
Amravati

  
Dr. P.B. Raghuwanshi  
Prof & Head  
Department of Chemistry  
Brijlal Biyani Science College  
Amravati

  
Dr. V.G. Thakare  
Principal  
Shri Shivaji Science College  
Amravati

  
Dr. G.N. Chaudhari  
Prof & Head  
Department of Chemistry  
Shri Shivaji Science College  
Amravati



Department of chemistry Shri. Shivaji Science College, Amravati has made MoUs with department of chemistry, Brijlal Biyani Science College, Amravati. In which 24 students were sent for attending the Guest Lecture and one faculty member has act as a Judge for poster presentation competition during the year 2018-2019.

During the year 2019-20,25 students attending the guest lecture at Brijlal Biyani Science College and the students from Brijlal Biyani Science College were came for sample analysis in which FTIR, XRD and uv-vis analysis done. The faculty members of Shri. Shivaji Science College act as a Judge for poster presentation and also deliver speech to motivate/inspire the MSc and BSc students. Two laboratory attendant were sent to Brijlal Biyani Science College for laboratory management techniques for laboratory assistants and attendance

**List of the Student**  
**Attended guest lecture in Brijalal Biyani Science College , Amravati**

1	Miss Nikita Abhimanyu Tekade
2	Miss.Nivedita shankarrao Marape
3	Miss. Samiksha Y. Armal.
4	Mr. Shashikant A. Patil
5	Miss Snehal Gajananrao Watane
6	Mr .Ajinkya Sanjay Somune
7	Miss Pragati Ganeshrao Isod
8	Miss.Komal Prabhulalji Joshi
9	Ms. Pallavi S. Lingot
1	Ms.Maseera Anam H.R.Naqvi
1	Ms.Pradnya R.Mehare
12	Mr. Aditya Kishor Bramhankar
13	Mr. Aniruddha S. Hande
14	Miss Bhagyashri Rajiv Mankar
15	Ms. Manisha S. Bhatkar
16	Miss Krunal Raosaheb Chumade
17	Ms. Shivani Satishrao Deshmukh
18	Mr. Yogesh Dilip Ghatole
19	Ms.Vaishnavi Gajanan rao Rase
20	Miss. Raksha Vinod Mishra

21	Miss. Swati Radhesham Jaiswal
22	Sneha Navneet Raut
23	Shivani Monde
24	Mariya Sadaf Mohammad Ilyas

**BRIJLAL BIYANI SCIENCE COLLEGE***Biyani Educational Campus, AMRAVATI - 444 605*

Date: 01-02-2019

## CERTIFICATE

This is to certify that Dr. G. N. Choudhari, Professor & Head, Shri Shivaji Science College, Amravati has done judgment of Intercollegiate Poster Presentation Competition for M. Sc.1st (Sem-II) Chemistry students on 01/02/2019 at 1 pm.

We thanks Dr. G. N. Choudhary for acting as a Judge in our college for Judgment of Intercollegiate Poster Presentation Competition for M.Sc. 1<sup>st</sup> (Sem-II) Chemistry students on 01/02/2019 at 1 pm.

We wish him success in life.

(Dr. P. B. Raghuvanshi)  
Head  
Department of Chemistry,

(Dr. N. G. Belsare)  
Principal  
Brijlal Biyani Science College,  
Amravati.



List of the students

Guest lecture attended in Brijlal Biyani Science College, Amravati

Sr.No	Name of the students
1	Kuldeep Ingle
2	Aadesh Navghare
3	Neeraj Dwivedi
4	Amol Rokade
5	Chetan Soye
6	Yogesh Hekade
7	Akshay Dahe
8	Nilesh Patil
9	Zaid Ali
10	Gayatri Hame
11	Prajakta Badarkhe
12	Shivani Pandey
13	Radhika Jakhotiya
14	Janhavi Malode
15	Prajakta Gayakwad
16	Prajakta Badarkhe
17	Sakshi Gawande
18	Aachal Sawwalakhe
19	Vaishnavi Wankhade
20	Shweta Saurkar
21	Kajal Isad
22	Vaishnavi Asare
23	Dipti Gaurkhede
24	Priyanka Sawalkar
25	Shamali Shelke

Estd: 1972

॥ ज्ञानम् विद्याय वाहितम् ॥

☎ OR (0721) 2677011

Fax (0721) 2677011

Mobile 09422857431



Dr. D.S. Dhote  
Principal

Shri Brijlal Biyani Shiksha Samiti's

## Brijlal Biyani Science College

Biyani Educational Campus, AMRAVATI - 444 605

[Affiliated to Sant Gadge Baba Amravati University, Amravati.]  
[Re-accredited by NAAC Bangalore at 'B' Level]

Website: www.bbscamf.com

Email ID: biyani\_college@yahoo.com, abbsm125@egbau.ac.in

No Admn-35/

Date: 09-01-2020

To:  
Dr. P.R. Mandlik,  
Assistant professor  
Shri Shivaji Science College,  
Amravati

Respected Sir,

This letter of appreciations comes your way to convey our sincere gratitude and deep gratefulness to you for coming all the way from Amravati to this institute of ours in Amravati to teach, guide and inspire our B.Sc. III (Chemistry) students during 9<sup>th</sup> January 2020.

We are very happy to mention that our students stand enormously benefitted 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 favour from you in future as well in the interest of our students.

With many grateful thanks and sincere regards,

Yours faithfully,

Dr. P.B. Raghuvanshi  
Head Department of Chemistry

Eabd 1972

॥ ज्ञानम् विद्यायः मूलम् ॥

☎ (0721) 2677081  
 ☎ (0721) 2677081  
 📞 09422949550



Dr. D. S. Dhote  
 Principal

Shri Brijlal Biyani Shiksha Samiti's

## Brijlal Biyani Science College

**Biyani Educational Campus, AMRAVATI - 444 608**

(Affiliated to Sans Gange Baba Amravati University, Amravati)  
 (Re-accredited by NAAC Bangalore at B Level)

Website: [www.bibscamti.com](http://www.bibscamti.com)

Email ID: [biyani\\_college@yahoo.com](mailto:biyani_college@yahoo.com), [sbbsamti25@sgbas.ac.in](mailto:sbbsamti25@sgbas.ac.in)

Date : 1<sup>st</sup> February, 2020


### CERTIFICATE

This is to certified that Dr Pramod Padole, Associate Professor, Chemistry Department, Shri Shivaji Science College, Amravati has rendered his services as a Judge for Inter-collegiate Poster Presentation Competition for M.Sc. I (Sem II) Chemistry students on 1<sup>st</sup> February 2020.

We are thankful to Dr Pramod Padole, for spending his valuable time as Judge in our college for judging Inter-collegiate Poster Presentation Competition for M.Sc. I (Sem II) Chemistry students on 1<sup>st</sup> February 2020.

Yours Sincerely

  
 (Dr D. S. Dhote)  
 Principal

  
 (Dr S. N. Gupta)  
 Convener



## Non-Teaching Staff Training Under Collaboration with Department of Chemistry, Brijlal Biyani Science College, Amravati





Amravati University Chemistry Teachers' Association, Amravati  
Sponsored

**TWO DAY WORKSHOP ON  
LABORATORY MANAGEMENT TECHNIQUES FOR  
LABORATORY ASSISTANTS AND ATTENDANTS (LMTLAA)**

26<sup>th</sup> & 27<sup>th</sup> June, 2019

In Collaboration with

Brijlal Biyani Science College, Amravati  
& S. S. S. K. R. Innani Mahavidyalaya, Karanja (Lad)



**CERTIFICATE**

This is certify that Mr. / Ms. Gajanan S. Goswami  
of Shri. Shivaji Science College Amt.  
has participated in Amravati University Chemistry Teachers' Association,  
Amravati Sponsored TWO DAY WORKSHOP ON LABORATORY  
MANAGEMENT TECHNIQUES FOR LABORATORY ASSISTANTS  
AND ATTENDANTS (LMTLAA) in Collaboration with Brijlal Biyani  
Science College, Amravati & S. S. S. K. R. Innani Mahavidyalaya, Karanja  
(Lad) at Department of Chemistry, Brijlal Biyani Science College Amravati  
on 26<sup>th</sup> & 27<sup>th</sup> June, 2019.

Dr. (Ms) S. N. Gupta  
Convener  
LMTLAA

Dr. P.R. Mandlik  
Secretary  
AUCTA

Dr. A. Y. Deshmukh  
Head  
SSSKRI MV, Karanja

Dr. P.B. Raghuvanshi  
Head  
BB Sci. College, Amt

# Collaborative Activity Sepak Takrow Coaching Camp and Tournament



Shri Shivaji Education Society's Amravati  
Accredited by NAAC with 'A' grade with a CGPA of 3.10

College with Potential for Excellence

## Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444

603 M.S.

- ❖ *Founder* : Dr. Panjabrao alias Bhausaheb Deshmukh      E-mail : [shivaji.office@gmail.com](mailto:shivaji.office@gmail.com)
- ❖ *President* : Shri Harshavardhan P. Deshmukh      Web Site : [www.shivajiscamt.org](http://www.shivajiscamt.org)
- ❖ *Principal* : Dr. V.G. Thakare      (O) 2660855; (Fax) 2665485; (R) 2551400, 2553130

Ref.No. SC/ 295 / Acc./ 20

Date: 12-8-2018

### COLLABORATION

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI

AND

AMRAVATI DISTRICT SAPEK TAKROW ASSOCIATION

For exchange of sports knowledge, information, facilities and training


The prime aim of this collaboration is exchange of sports knowledge, information, facilities for promotions of sports talent and exchange of available resources through collaborative and symbiotic efforts for qualitative enhancement of sports performance.

This institute will collaborate with sapek takrow I association in fulfilling the following objectives :

13. Mutually exchange the expertise available in the college and with the association in the game handball
14. Availing the training facilities collaboratively to provide coaching to students.
15. This agreement will come into effect from the date of signing of this agreement and shall be valid for a period of 10 years from that date unless sooner terminated, revoked, or modified by mutual written agreement between the parties and may be extended by mutual written agreement.

The following authorized individuals have signed the present document of collaboration on behalf of their respective institutions:

  
Name of Institution  
Shri Shivaji Science College Amravati  
Authorized Signature

  
Name of Association  
Amravati District Sepak Takrow Association  
Authorized Signature

Name of Institution	Shri Shivaji Science College Amravati	Name of Association	Amravati District Sepak Takrow Association, Amravati
Address	Morshi Road Shivaji Nagar Amravati	Address	Vijaya Colony V.M.V area Amravati
Contact Details	942285-8934	Contact Details	942342 4950
E-mails	Vijaythakare@gmail.com	E-mails	
Web	www.shivajiscamt.org	Web	



**14 to 25 – 11- 2018**


Physical Education and Sports Department Shri Shivaji Science College, Amravati as well as District Sepak Takraw Association Amravati jointly organized Sepak Takraw training camp on **May 5, 2009 to May 16, 2019**. The training camp was organized in the college jointly with the main objective of understanding the rules of the game as well as participating in various sports competitions at the state and national level. The training camp was also provided to the players of the association by the best sports college. In order to achieve success, the training camp was organized by the physical education and sports department of the college under the guidance of a good coach. The training camps were attended by players of different levels and they were trained in the rules and skills. As the rules of the new game like Sepak Takraw have not yet reached the students, it was to allay their fears about the game and prepare them for the competition as well as to help the newly formed organizations to help the quality players by the college.

**LIST OF PARTICIPANTS**

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| 1. Saurabh Sham Kalmegh,            | 14. Kajal Rajeshwar Bihade,     |
| 2. Dhananjay Santosh Nakhale,       | 15. Pratiksha Damodar Pacharne, |
| 3. Rohit Kailas Rathod,             | 16. Sneha Shailendra Bhalerao,S |
| 4. Abhay Dilip Mahajan,             | 17. Hravi Vinod Jayalwal        |
| 5. Prajwal Rajabhau Sawake,         |                                 |
| 6. Anand Anant Vighe,               |                                 |
| 7. Sameer Anant Vighe,              |                                 |
| 8. Vinay Dattatray Wagh,            |                                 |
| 9. Akshay Pradip Magarde,           |                                 |
| 10. Sayali Dhananjay Karmarkar,     |                                 |
| 11. Shefali Sanjay Puri,            |                                 |
| 12. Utkarsha Rajendra Nimbalkar,    |                                 |
| 13. Sonal Sachchidanand Panchariya, |                                 |

# Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2019 - 2020

## Coaching Camps and Tournaments District Ball Badminton Association



**Shri Shivaji Education Society's Amravati**  
Accredited by NAAC with 'A' grade with a CGPA of 3.10  
*College with Potential for Excellence*

**Shri Shivaji Science College**  
Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S.

❖ **Founder** : Dr. Panjabrao alias Bhausaheb Deshmukh      E-mail : shivaji.office@gmail.com  
❖ **President** : Shri Harshavardhan P. Deshmukh      Web Site : www.shivajiscam.org  
❖ **Principal** : Dr. V.G. Thakare      (O) 2660855; (Fax) 2665485; (R) 2551400, 2553130

---

Ref.No. SC/ 107 / Phy Ed/ 2016      Date: 20-10-2016

### COLLABORATION

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI  
AND  
AMRAVATI DISTRICT BALL BADMINTON ASSOCIATION


For exchange of sports knowledge, information, facilities and training

The prime aim of this collaboration is exchange of sports knowledge, information, facilities for promotions of sports talent and exchange of available resources through collaborative and symbiotic efforts for qualitative enhancement of sports performance.

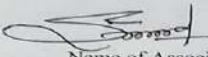
This institute will collaborate with ball badminton association in fulfilling the following objectives :

- 1 Mutually exchange the expertise available in the college and with the association in the game handball
- 2 Availing the training facilities collaboratively to provide coaching to students.
- 3 This agreement will come into effect from the date of signing of this agreement and shall be valid for a period of 10 years from that date unless sooner terminated, revoked, or modified by mutual written agreement between the parties and may be extended by mutual written agreement.

The following authorized individuals have signed the present document of collaboration on behalf of their respective institutions:



Name of Institution  
**Shri Shivaji Science College Amravati**  
Principal  
Authorized Signature  
Shri Shivaji Science College  
Amravati



Name of Association  
**Amravati District Ball Badminton Association**  
Secretary  
Authorized Signature  
Amravati District Ball Badminton  
Association

Name of Institution	Shivaji science college Amravati	Name of Association	Amravati District Ball-Badminton Association.
Address	Shivaji Nagar Amravati	Address	Vadhyvaibhav Colony, Sagar Road Amravati.
Contact Details	9122858934.	Contact Details	9922969195
E-mails	shivaji.office@gmail.com	E-mails	Sugamkhand@gmail.com
Web	Shivaji sci.amt.Org	Web	

CS Scanned with CamScanner

**6 TO 15 - 01 2019**

In order to provide better training to the students of the college and also to increase their participation in the competition, free training facilities are provided in the college for the students of the college. Dr. Sugandh Bandu himself is a Ball Badminton Instructor and participates in the University Selection Test. College Ball Badminton Association and Mr. Shivaji Vigyan College Amravati Department of Physical Education and Sports organizes training camps and competitions every year in which students of different levels participate and learn many skills about ball badminton. They do. Various trainers are appointed for this training camp through the district organization and the students are trained in the latest rules and skills of the game.

**LIST OF PARTICIPANTS**

1 Shefali Sanjay Puri

7 Vishal Panjab Wanjari

2 Tejashri Rajendra Aware

8 Rohit Anilrao Kalmegh

3 Nilam Umakant Suryawanshi

9 Ajinkya Nareshkumar Chandankar

4 Bharat Ashokrao Charhate

10 Sahil Eshwardas Bonde

5 Madhur Sanjay Jadhao

11 Amol Arun Keche

6 Akshay Pradiprao Magarde

12 Ravikumar Bhaskar Shrikhand





# Hand Ball Coaching Camp and Tournament



**Shri Shivaji Education Society's Amravati**  
 Accredited by NAAC with 'A' grade with a CGPA of 3.10  
 College with Potential for Excellence

**Shri Shivaji Science College**  
 Shivaji Nagar, Morshi Road, Amravati - 444

603 M.S.

- ❖ *Founder* : Dr. Panjabrao alias Bhausaheb Deshmukh
  - ❖ *President* : Shri Harshavardhan P. Deshmukh
  - ❖ *Principal* : Dr. V.G. Thakare
- E-mail : [shivaji.office@gmail.com](mailto:shivaji.office@gmail.com)  
 Web Site : [www.shivajiscamr.org](http://www.shivajiscamr.org)  
 (O) 2660855; (Fax) 2665485; (R) 2551400, 2553130

Date: 12-04-2016

Ref.No. SC/ 259 / P.A. / 2016

## COLLABORATION

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI  
 AND  
AMRAVATI DISTRICT HANDBALL ASSOCIATION


For exchange of sports knowledge, information, facilities and training

The prime aim of this collaboration is exchange of sports knowledge, information, facilities for promotions of sports talent and exchange of available resources through collaborative and symbiotic efforts for qualitative enhancement of sports performance.

This institute will collaborate with hand ball association in fulfilling the following objectives :

1. Mutually exchange the expertise available in the college and with the association in the game handball
2. Availing the training facilities collaboratively to provide coaching to students.
3. This agreement will come into effect from the date of signing of this agreement and shall be valid for a period of 10 years from that date unless sooner terminated, revoked, or modified by mutual written agreement between the parties and may be extended by mutual written agreement.

The following authorized individuals have signed the present document of collaboration on behalf of their respective institutions:

  
 Name of Institution  
 Shri Shivaji Science College Amravati  
 Shri Shivaji Science College  
 Amravati  
 Authorized Signature

  
 Name of Association  
 Amravati District Handball Association  
 Dr. Hanumanth R. Lunge  
 SECRETARY  
 Amravati District Handball  
 Association

Name of Institution	Shivaji Science College Amravati	Name of Association	Amravati District Hand Ball Association
Address	Morshi Road Shivaji Nagar Amravati	Address	Surya Colony U.M.V Amravati
Contact Details	Dr. V. G. Thakare	Contact Details	Dr. Hanumanth Lunge 9423424950
E-mails	Vijay Thakare @gmail.com	E-mails	
Web	<a href="http://www.shivajiscamr.org">www.shivajiscamr.org</a>	Web	

**18 TO 29 – 02- 2019**

Department of Physical Education and Sports Shri Shivaji Science College Amravati in collaboration with the District Handball Association organizes training camps every year to provide better training to the handball players as well as better coaches as well as better sports grounds. By providing handball playgrounds of the college, they get better training facilities in the college. In this training camp of handball of the college, by acquiring knowledge of various skills and rules, players get ready for the next competition. Handball training camps are conducted in the colleges every year through the District Handball Association with the main objective that the college should have a share of the saline in getting the medals

**HAND BALL BOYS****LIST OF PARTICIPANTS**

- |                             |                         |
|-----------------------------|-------------------------|
| 1. VINAY DATTATRAY WAGH,    | 8. ROHIT KAILAS RATHAD, |
| 2. SAURABH SHAM KALMEGH,    | 9. DHANAJAY SANTOSH     |
| 3. VIPUL SUKHDAY MOHOD,     | NAKHALE,                |
| 4. GANRAJ GORAKHNATH MANE,  | 10. AMOL ARUN KECHE,    |
| 5. PRAJWAL RAJABHAU SAWAKE, | 11. BHARAT ASHOKRAO     |
| 6. ROHIT RAJENDRA DERE,     | CHARHATE                |
| 7. ABHAY DILIP MAHAJAN,     |                         |

## Dodge Ball Coaching Camp and Tournament



Shri Shivaji Education Society's Amravati  
Accredited by NAAC with 'A' grade with a CGPA of 3.10

College with Potential for Excellence

### Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444

603 M.S.

- ❖ **Founder** : Dr. Panjabrao alias Bhausaheb Deshmukh      E-mail : [shivaji.office@gmail.com](mailto:shivaji.office@gmail.com)  
❖ **President** : Shri Harshavardhan P. Deshmukh      Web Site : [www.shivajiscam.org](http://www.shivajiscam.org)  
❖ **Principal** : Dr. V.G. Thakare      (O) 2660855; (Fax) 2665485; (R) 2551400, 2553130

Ref.No. SC/322 / *old* / 2018

Date: 22-10-2018

### COLLABORATION

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI

AND

AMRAVATI DISTRICT DODGEBALL ASSOCIATION

For exchange of sports knowledge, information, facilities and training


The prime aim of this collaboration is exchange of sports knowledge, information, facilities for promotions of sports talent and exchange of available resources through collaborative and symbiotic efforts for qualitative enhancement of sports performance.

This institute will collaborate with ball badminton I association in fulfilling the following objectives :

19. Mutually exchange the expertise available in the college and with the association in the game handball
20. Availing the training facilities collaboratively to provide coaching to students.
21. This agreement will come into effect from the date of signing of this agreement and shall be valid for a period of 10 years from that date unless sooner terminated, revoked, or modified by mutual written agreement between the parties and may be extended by mutual written agreement.

The following authorized individuals have signed the present document of collaboration on behalf of their respective institutions:

  
Name of Institution  
Shri Shivaji Science College Amravati  
Principal,  
Shri Shivaji Science College  
Amravati  
Authorized Signature

  
Name of Association  
Amravati District Dodgeball Association  
अध्यक्ष  
अमरावती जिल्हा डोंडबॉल  
असोसिएशन, अमरावती.  
Authorized Signature

Name of Institution	Shri Shivaji Science College Amravati	Name of Association	Amravati District Dodge Ball Association
Address	Shivaji Nagar Amravati 444603	Address	Surya Colony V.M.V. Amravati
Contact Details	Dr. V. G. Thakare.	Contact Details	Dr. Hanuman Lunge 94234 24950
E-mails	<a href="mailto:vijaythakare@gmail.com">vijaythakare@gmail.com</a>	E-mails	
Web	<a href="http://www.shivajiscam.org">www.shivajiscam.org</a>	Web	



**14 APRIL TO 24 APRIL 2019**

Department of Physical Education and Sports Shivaji science college Amravati organizes a collaboration with the Dodge Ball District Association to impart training in new sports like Dodgeball to the students of the college. Meritorious student coaches of the association and college students also participate. The coaches provide complete training on dodgeball to the students and give them complete information on how they can participate in the competition. The training camp is recognized every year by the Department of Physical Education of the college for the purpose of winning a medal in the sport of Dodge ball in the state national competition Amravati. The training camp is organized on the college playground

**LIST OF PARTICIPANTS**

1. SHREYA ANIL TELMORE,
2. PRANITA RAJENDRA TAYADE,
3. HARSHA SHARADRAO DESHMUKH,
4. SHIVANI RAMDAS HINGNE,
5. ADITYA PRAMOD GANGATRE,
6. GAYATRI GAJANAN DHOLE,
7. HIMANSHU SURENDRA DESHMUKH,
8. SHREYES SHRIKRUSHNA INGOLE,
9. YOGESH VIJAYGIR GOSAVI,
10. KARAN SITAB KADAR,
11. AKASH PRAMOD GADBAIL,
12. ROSHAN SUNIL SAWALE,
13. VIPUL SUKHDEV MOHOD,
14. GANRAJ GORAKHANATH M

## Ball Badminton Coaching Camp and Tournament

17 to 28 august 2019

In order to provide better training to the students of the college and also to increase their participation in the competition, free training facilities are provided in the college for the students of the college. Dr. Sugandh Bandu himself is a Ball Badminton Instructor and participates in the University Selection Test. College Ball Badminton Association and Mr. Shivaji Vigyan College Amravati Department of Physical Education and Sports organizes training camps and competitions every year in which students of different levels participate and learn many skills about ball badminton. They do. Various trainers are appointed for this training camp through the district organization and the students are trained in the latest rules and skills of the game.



### LIST OF PARTICIPANTS

1. SAKSHI KISHOR BONDE,
2. RADHIKA RAM CHUTE,
3. BHARTI PANDURANGJI AMBRATE,
4. POOJA SUNILRAO JAWARE,
5. TEJASHRI RAJENDR AAWARE,
6. ASHWINI GAJANAN GOSWAMI,
7. POOJA VILAS LAWHALE,
8. AYUSHRI VIRENDR TARALE

## Hand Ball Coaching Camp and Tournament

2 to 12 -9-2019

Department of Physical Education and Sports Shri Shivaji Science College Amravati in collaboration with the District Handball Association organizes training camps every year to provide better training to the handball players as well as better coaches as well as better sports grounds. By providing handball playgrounds of the college, they get better training facilities in the college. In this training camp of handball of the college, by acquiring knowledge of various skills and rules, players get ready for the next competition. Handball training camps are conducted in the colleges every year through the District Handball Association with the main objective that the college should have a share of the saline in getting the medals.



### LIST OF PARTICIPANTS

- |                              |                             |
|------------------------------|-----------------------------|
| 1. KARTIKI ANANT INGOLE,     | 8. DHANAJAY SANTOSH NAKHLE, |
| 2. PUNAM RAMESH SADAFALR,    | 9. GAURAV DIPAK THAKRWADE,  |
| 3. KARTIKI ANANT 9NGOLE,     | 10. YASH RAVINDR MANKAR,    |
| 4. GANRAJ GORKNATH MANE,     | 11. ROHIT KILAS RATHOD,     |
| 5. PRAJWAL RAJABHAU SAWAKE,  | 12. ARPIT SANTOSH SAWARKAR, |
| 6. SAURABH SAHAM KALMEGH,    | 13. VIVEK KIRTRAO ROY,      |
| 7. ANUP PURUSHITTAM DAHPUTR, | 14. SANKET SUDHAKAR VANJA   |

## Dodge Ball Coaching Camp and Tournament

5 to 16 – 10- 2019

Department of Physical Education and Sports Shivaji Science College Amravati organizes a collaboration with the Dodge Ball District Association to impart training in new sports like Dodgeball to the students of the college. Meritorious student coaches of the association and college students also participate. The coaches provide complete training on dodgeball to the students and give them complete information on how they can participate in the competition. The training camp is recognized every year by the Department of Physical Education of the college for the purpose of winning a medal in the sport of Dodge ball in the state national competition Amravati. The training camp is organized on the college play ground.



### LIST OF PARTICIPANTS

- |                                      |                                       |
|--------------------------------------|---------------------------------------|
| 1. PRAJWAL GAJANAN<br>KHANDARE,      | 7. ANIKET VITTHAL PADALWAR,           |
| 2. ROHAN PURUSHOOTAM<br>CHINCHALKAR, | 8. PAYAL MADUSUDAN<br>PARLIKAR,       |
| 3. TANISH ARVIND BODHANKAR,          | 9. RADHIKA SANJAY CHARATE,            |
| 4. SHSHANK SANTOSH RUKNE,            | 10. VAISHNAVI CHANDSHEKHAR<br>THAKRE, |
| 5. AMIT RAVI ALONI,                  | 11. VAISHNAVI ASHOK WANKHAD           |
| 6. NISHCHAL NINAD JINTURKAR,         |                                       |



## Twining Programme - Faculty Exchange

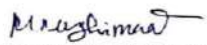
Twinning Collaboration envisioned under the DBT Sponsored Foldscope project was signed with Muthayammal College, Rasipuram, Tamilnadu. Under this collaboration One Day National Seminar cum workshop on Foldscope Assembling, Imaging and Applications was jointly organized and conducted at Rasipuram on 26 - 27<sup>th</sup> Sept. 2019. 280 students from different colleges around Rasipuram participated in the Workshop.

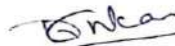



**TWINNING OF DBT FOLDSCOPE PROJECT**  
**MUTHAYAMMAL COLLEGE OF ARTS & SCIENCE, RASIPURAM**  
**WITH**  
**SHRI SIVAJI SCIENCE COLLEGE, AMRAVATI, MAHARASHTRA.**

Ref : No. BT/IN/Indo-US/Foldscope/39/2015  
 SAN. No. 102/IFD/SAN/4849/2017-18 dated 16.03.2018.  
 DBT Foldscope project,  
 Department of Biotechnology,  
 Ministry of Science and Technology,  
 Govt. of India.

I am **Dr. M. MAGHIMAA**, Principal Investigator, DBT Foldscope Project, Assistant Professor, Department of Microbiology, **Muthayammal College of Arts and Science, Rasipuram, Namakkal District, Tamilnadu, India**. The project entitled "*Creating awareness among Tribals and local community of Kolli Hills, Tamil Nadu in identification of pathogens and parasites from air, water and cattles*" is Twinning with **Dr. Dinesh D.Khedkar**, Principal Investigator, DBT Foldscope project, Assistant Professor, Department of Botany, **Shri Sivaji Science College, Amravati, Maharashtra**. The project is entitled "*Exploration of the research avenues by using Foldscope*" on 27/08/2019.

  
**DR. M. MAGHIMAA**  
 Principal Investigator,  
 DBT Foldscope Project,  
 Assistant Professor,  
 Department of Microbiology,  
 MCAS, Rasipuram.  
 Namakkal District,  
 Tamilnadu

  
**Dr. Dinesh D.Khedkar**  
 Principal Investigator,  
 DBT Foldscope Project,  
 Asst. Prof, Dept. Of Botany,  
 Shri Sivaji Science College,  
 Amravati, Maharashtra.

  
**Dr. R. SELVAKUMARAN,**  
 Principal,  
 Muthayammal College of  
 Arts and Science,  
 Rasipuram.  
 Namakkal District,  
 Tamilnadu



To,

**Dr. Dinesh D. Khedkar,**

Associate Professor in Botany

Shri Shivaji Science College,

Amravati, Maharashtra

**Subject: Signing MoU for Twinning under DBT project and One Day National Seminar Cum Workshop**

Respected Sir,

With reference to the project sanctioned under Foldscope Scheme by DBT, this Institute is interested to establish collaboration with your institution under the special provision envisioned in the project. In this context, we are organizing DBT Sponsored **One Day National Seminar Cum Workshop on Foldscope Assembly, Imaging and its Application on 27th Aug. 2019**. The MoU for Twinning will also be exchanged in ceremonial function during the workshop.

You are requested to inaugurate and deliver an Key Note Talk and conduct workshop in the same event.

**Dr. Rahaduraipandi Kathirvel**, (Foldscope PI) Managing Director, The Erode Diagnostic Laboratory, Erode and **Dr. N. Sudhakar**, (Foldscope PI) Head, M Muthayammal Centre for Advance Research, Rasipuram will be the another guests of honour and resource person for this workshop.

Please accept this Invitation and send your acceptance at an earliest possible to proceed further for hosting this academic venture.

Thanks and Best Regards

Place: Rasipuram

Date: 06/08/2019

Yours Truly

**M. MAGHIMAA**

Principal Investigator

DBT Foldscope Project



**MUTHAYAMMAL  
COLLEGE OF ARTS  
& SCIENCE**  
A UNIT OF VANETRA GROUP

## One Day National Seminar cum Workshop on Foldscope, Assembly, Imaging and its Applications



CELEBRATING  
25 Years  
1994 - 2019

*Organized by*  
**Dr. M. Maghimaa,**  
Principal Investigator, DBT Foldscope project,  
Assistant Professor  
Department of Microbiology  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE,  
RASIPURAM, NAMAKKAL DISTRICT, TAMILNADU, INDIA



*Sponsored by*



**DEPARTMENT OF BIOTECHNOLOGY**  
Ministry of Science & Technology  
Govt. of India, New Delhi

**Chief Guest**

<p><b>Dr. Dinesh D.Khedkar,</b> Principal Investigator, DBT Foldscope project, Asst. Prof of Botany, Shri Shivaji Science College, Amravati, Maharashtra</p>	<p><b>Dr. Rajadurai pandi Kathirvel,</b> Principal Investigator, DBT Foldscope project, Managing director, The Erode Diagnostic Laboratory, Erode</p>	<p><b>Dr. N. Sudhakar,</b> Principal Investigator, DBT Foldscope project, Head, Muthayammal Center for Advanced Research, Muthayammal College of Arts and Science, Rasipuram, Namakkal District, Tamilnadu.</p>
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**DBT - NEW DELHI**

*Sponsored*

**One Day National Seminar cum Workshop on  
Foldscope, Assembly, Imaging and its Applications**

*Organized by*

**DEPARTMENT OF MICROBIOLOGY**

*Shri Shivaji Science College, Maharashtra &  
The Erode Diagnostic laboratory, Erode*

**MUTHAYAMMAL COLLEGE OF ARTS & SCIENCE**  
(A Unit of VANETRA Group)  
Affiliated to Periyar University, Salem | Accredited by NAAC with 'A' Grade  
Recognized by UGC under Section 2(f) & 12(B)  
**RASIPURAM, NAMAKKAL - 637 408, TAMIL NADU, INDIA**

**Certificate**

27<sup>th</sup> August 2019

This is to certify that Mr/Mrs/Dr. DINESH D. KHEDKAR, PI, DBT Foldscope Project  
Shri Shivaji Science college, Amravati, has participated in the one day National Seminar  
cum workshop on "Foldscope, Assembly, Imaging and its Applications", sponsored by DBT-Foldscope Project,  
Department of Biotechnology (DBT), Ministry of Science & Technology, Govt. of India, NewDelhi and organized by  
the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram on **27<sup>th</sup> August 2019**.



**Dr.M.Maghimaa**  
Organizing Secretary &  
PI, Foldscope Project-DBT



**Dr.S.Shahitha**  
Head  
Dept. of Microbiology



**Dr.R.Selvakumaran**  
Principal



**Mrs.Manju Muthuvel**  
Executive Director



MUTHAYAMMAL  
COLLEGE OF ARTS  
& SCIENCE  
ESTD 1994



CELEBRATING  
25 Years  
1994 - 2019







Foldscope PI Dr. D. D. Khedkar and Dr. Maghimma conducting joint exhibition of Foldscope





Principal Dr. N. Selvakumaran, Other co-organizing Foldscope PIs and College Faculties endorsing Collaboration



Principal Dr. N. Selvakumaran exchanging Collaboration Document



Dr. D. D Khedkar delivering talk during the National Seminar cum Workshop

## Student Exchange with Sri Pratap College, Cluster University, Srinagar

Under the NE twining programme envisioned in DBT Foldscope Project supported by DBT Principal Investigator Dr. D. D. Khedkar has established collaboration with following Principal Investigators –

Dr. Roohi Mushtaq, Sri Pratap College, Cluster University, Srinagar

Both Principal Investigators and their institutes agreed to collaborate for the research and students exchange.

Dr. Roohi Mushtaq, Sri Pratap College, Cluster University, Srinagar deputed JRF Mr. Malik Abaid Hussain for the research and under the exchange programme. JRF joined Shri Shivaji Science College, Amravati on 28<sup>th</sup> Dec 2019 and relieved to his institute on 5<sup>th</sup> Feb 2019 after completing research.



Govt of Jammu & Kashmir  
**Department of Biotechnology and Bioinformatics**  
**Sri Pratap College**  
 Cluster University Srinagar,  
 M A Road, Srinagar, J&K-190001.



No. SPC/Biotech/DBT/17

Dated: 07/12/2018

**Dr. Dinesh Dayaramji Khedkar**  
 Associate Professor  
 Shri Shivaji Science College  
 Amravati (MS), India.

**Subject:** Twinning of the Foldscope Project.

**Ref. No:** BT/IN/Indo-US/Foldscope/39/2015

Sir,

With respect to the subject cited above, I extend my gratitude for accepting the request regarding twinning of our foldscope project sponsored by Department of Biotechnology, Ministry of Science and Technology, Govt. of India. Since both of us are working on plants, this twinning will help us to share the platform where we can explore plant kingdom by conducting research using foldscope. We look forward to a fruitful collaboration.

Yours Sincerely

*[Signature]*  
 Dr. Roohi Mushtaq  
 Principal Investigator  
 DBT Sponsored Project

PRINCIPAL INVESTIGATOR  
 DBT-PROJECT

**Copy to:**

1. Dr. Vaishali Punjabi, Scientist 'D' Ministry of science and Technology, Govt. of India, New Delhi.
2. Principal Sri Pratap College, Srinagar, Jammu and Kashmir.





**Dinesh D. Khedkar**

*M. Sc., Ph. D. (NET, SET)*  
**Associate Professor in Botany**

**Office:**

Department of Botany  
Shri Shivaji Science College,  
Shivaji Nagar, Morshi Road,  
Amravati – 444 603 (M. S.), India  
Website: www.shivajiscamt.org  
E-mail: shivajiscamt@gmail.com  
☎ Office: 0721-2665485, Fax: 2660855

**Residence:**

“Gitai”, 13-A, Vitthal Wadi,  
Narayan Nagar, Kathora Road,  
V. M. V. Post Office,  
Amravati– 444 605 (M.S.), India  
Web site: www.dineshkhedkar.co.in  
E-mail: sonudin@gmail.com  
☎ +919423622287, Fax: 0721-2553969

Ref.No.: sssc/foldscope/29/2019

To,  
Dr. Roohi Mushtaq  
Principal Investigator, Foldscope Project  
Sri Pratap College, Cluster University, Srinagar

**Subject: Relieving Letter to Twinning JRF under Foldscope Project**

**Reference:** 1. Admin order No. BT/IN/Indo-US/Foldscope/39/2015 dated 20.03.2018 from DBT  
2. Twinning Letter by Dr. Roohi no. spc/biotech/dbt/17dated 7.12.2018  
3. Acceptance Letter by Dr. D. D. Khedkar, dated 14<sup>th</sup> Dec. 2018  
4. Joining Letter by JRF Mr. Malik Aabid Hussain dated 28<sup>th</sup> Dec. 2018

Dear Dr.,

In connection with letters cited under reference, the twinning agreements is in force between our institutes. Under the twinning programme, JRF from Sri Pratap College, Srinagar Mr. Malik Aabid Hussain joined Shri Shivaji Science College, Amravati for research exchange envisaged in the Foldscope Scheme on 28<sup>th</sup> Dec. 2018.

He was actively engaged in all the project activities and research work going on in the project. The contribution of Mr. Malik Aabid needs appreciation from both the institutions.

The extended period of on week from 28<sup>th</sup> Jan. to 5<sup>th</sup> February 5, 2019 was devoted towards compilation of the work conducted during the entire period of his stay in our institute. He relieved from this institute on 5<sup>th</sup> February, 2019 afternoon from his assignments.

I acknowledge the support and necessary permissions granted by Principal Investigator and Principal Sri Pratap College, Srinagar for this significant exchange of the research works between two remote institutes.

Hope this association will go long and result into noteworthy outcomes.

Thanking you in anticipation.

**Place :** Amravati

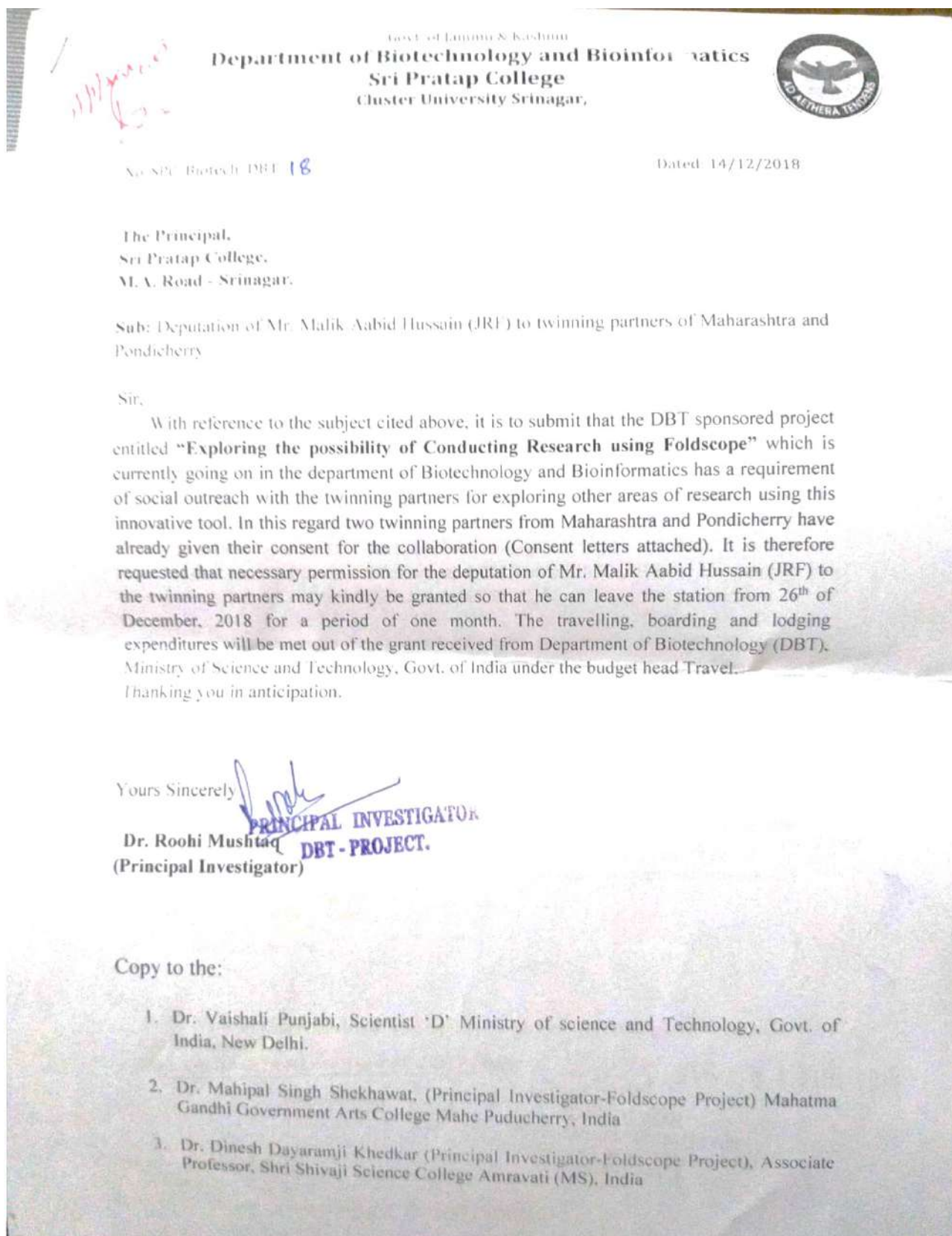
**Date :** 5<sup>th</sup> February, 2019

Yours Sincerely

D. D. Khedkar

Principal Investigator  
DBT Foldscope Project

**Copy to:** 1. **Dr. Vaishali Panjabi**, Scientist D, Department of Biotechnology (Foldscope Team) for information  
2. **The Principal**, Sri Pratap College, Cluster University, Srinagar for information and action  
3. **The Principal**, Shri Shivaji Science College, Amravati  
4. **Mr. Malik Aabid Hussain**





**Dinesh D. Khedkar**  
M. Sc., Ph. D. (NET, SET)  
Associate Professor in Botany

**Office:**  
Department of Botany  
Shri Shivaji Science College,  
Shivaji Nagar, Morshi Road,  
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Website: www.shivajiscamt.org  
E-mail: shivajiscamt@gmail.com  
☎ Office: 0721-2665485, Fax: 2660855

**Residence:**  
“Gitai”, 13-A, Vitthal Wadi,  
Narayan Nagar, Kathora Road,  
V.M.V. Post Office,  
Amravati– 444 605 (M.S.), India  
Web site: www.dineshkhedkar.co.in  
E-mail: sonudin@gmail.com  
☎ +919423622287, Fax: 0721-2553969

Ref.No.: sssc/foldscope/\_\_\_\_/2018

To,  
Dr. Roohi Mushtaq  
Principal Investigator, Foldscope Project  
Sri Pratap College, Cluster University, Srinagar

**Through:** The Principal, Shri Shivaji Science College, Amravati, MS, India  
**Subject:** Consent to twin project Under the Foldscope Scheme  
**Reference:** 1. Admin order No. BT/IN/Indo-US/Foldscope/39/2015 dated 20.03.2018 from DBT  
2. Request letter from Dr. Roohi Mushtaq No. SPC/Biotech/DBT/17 dated 7<sup>th</sup> Dec. 2018

Dear Dr.,

In connection with the admin order and your request letter cited under reference, I am delighted to accept the proposal of twinning the Foldscope project with your esteemed institution.

I am very please to note that, you are working the area of my research interest. Hopefully, this academic and research collaboration between two institutions will come up with many novel outputs.

As per my institutional policy, under the twinning of the project, we are expected to collaborate in the following ways and means –

1. Interact and Exchange for the better outcome of the research undertaken by both PIs.
2. Organize visits for interaction between the students of both the region under the outreach programme.
3. To know the diversity of both the regions through fieldwork.
4. Organize workshops in collaboration for the students and the faculties.
5. To satisfy, any other requirements as and when conveyed by authorities.

Therefore, you may be obligingly requested to kindly note this acceptance for the proposal of twinning and hope you we will work positively towards benefit of students, academics and research.

Thanking you in anticipation.

**Place :** Amravati  
**Date :** 14<sup>th</sup> Dec., 2018

Yours Sincerely

(D. D. Khedkar)

**Recommended and forwarded for necessary action**


**Principal**

Shri Shivaji Science College, Amravati

**Copy to:** 1. Dr. Vaishali Panjabi, Scientist D, Department of Biotechnology (Foldscope Team) for information  
2. The Principal, Sri Pratap College, Cluster University, Srinagar for information and action



## Internship Programme at ArrayGen Technologies Pvt.Ltd., Pune for M.Sc. Bioinformatics Students



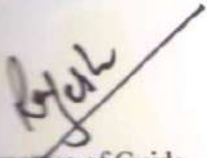
**ArrayGen Technologies**  
Godai Niawas 19, Shivaji Chowk,  
Mokate Chawl, Kothrud,  
Near Shivaji Statue, Pune - 411 038.  
E-mail : [info@arraygen.com](mailto:info@arraygen.com)  
Phone : 020-65228007  
Mobile : 9673625446  
Website : [www.arraygen.com](http://www.arraygen.com)

CIN No.: U74900PN2015PTC157410  
PAN No: AANCA9623K


**CERTIFICATE**

**2018-2019**

This is to certify that **Mr. Ashwin Anupkumar Bhosle** has completed the project –  
“**Automated Tool Development for Genome Variation Detection**”. Under my guidance and  
submitted the project report, laid down by **Sant Gadge Baba Amravati University**. The  
material that has been obtained from other source is duly, acknowledged in the dissertation. It is  
further certified that the work or its part has not been, submitted to any other university for  
examination under my supervision. I consider this work worthy for the award of degree of  
**Master of Science in Bioinformatics.**

  
Signature of Guide

Contact:  
Rajesh Kumar Mahato  
(Founder & CEO)  
ArrayGen Technologies Pvt. Ltd.  
Phone: +91-020-25395446





**ArrayGen Technologies**

Godai Niawas 19, Shivaji Chowk,  
Mokate Chawl, Kothrud,  
Near Shivaji Statue, Pune - 411 038.  
E-mail : [info@arraygen.com](mailto:info@arraygen.com)  
Phone : 020-65228007  
Mobile : 9673625446  
Website : [www.arraygen.com](http://www.arraygen.com)

CIN No.: U74900PN2015PTC157410

PAN No: AANCA9623K

**CERTIFICATE****2018-2019**

This is to certify that **Mr. Gaurav Gajananrao Boharapi** has completed the project – **Mutation Analysis of Hereditary Cancer by using NGS** Under my guidance and submitted the project report. laid down by **Sant Gadge Baba Amravati University**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **Master of Science in Bioinformatics**.

Signature of Guide

**Contact:**

Rajesh Kumar Mahato  
(Founder & CEO)  
ArrayGen Technologies Pvt. Ltd.  
Phone: +91-020-25395446





Precision to the last nucleotide

**ArrayGen Technologies**Godai Niawas 19, Shivaji Chowk,  
Mokate Chawl, Kothrud,  
Near Shivaji Statue, Pune - 411 038.E-mail : [info@arraygen.com](mailto:info@arraygen.com)

Phone : 020-65228007

Mobile : 9673625446

Website : [www.arraygen.com](http://www.arraygen.com)

CIN No.: U74900PN2015PTC157410

PAN No: AANCA9623K

**CERTIFICATE**

2018-2019

This is to certify that **Miss. Gouri Mahendra Jane** has completed the project –“**Differential Gene Expression Analysis(RNA Seq) reference Based NGS Data**”. Under my guidance and submitted the project report. laid down by **Sant Gadge Baba Amravati University**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **Master of Science in Bioinformatics**.

Signature of Guide

Contact:

Rajesh Kumar Mahato  
(Founder & CEO)  
ArrayGen Technologies Pvt. Ltd.  
Phone: +91-020-25395446



Precision to the last nucleotide

### ArrayGen Technologies

Godai Niawas 19, Shivaji C  
Mokate Chawl, Kothrud,  
Near Shivaji Statue, Pune  
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Phone : 020-65228007  
Mobile : 9673625446  
Website : [www.arraygen.com](http://www.arraygen.com)

CIN No.: U74900PN2015PTC157410

PAN No: AANCA9623K

## CERTIFICATE

2018-2019

This is to certify that **Miss. Shital Avinash Kale** has completed the project –“**Denovo Based Transcriptome Profiling from NGS Data**”. Under my guidance and submitted the project report. laid down by **Sant Gadge Baba Amravati University**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **Master of Science in Bioinformatics**.

Signature of Guide

*Rajesh*

Contact:

Rajesh Kumar Mahato  
(Founder & CEO)  
ArrayGen Technologies Pvt. Ltd.  
Phone: +91-020-25395446



## Internship Programme at Sant Gadgebaba Amravati University, Amravati for M.Sc. Bioinformatics Students

### Certificate

This is to certify that the project entitled “**In-silico Analysis of *Solanaceae* and Establishment of Phylogenetic relationship using *rbcl* and *matK* gene**” has been completed by Miss. Priyanka R. Bharde under my supervision during the academic session 2018-1019 as a partial fulfillment of project of M.Sc. Part II Semester IV in Bioinformatics at Department of Botany, Sant Gadge Baba Amravati University and Amravati. This report or a similar report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

Place: Amravati  
Date: 9/4/2019



Signature of Supervisor

Dr. (Mr.) J. A. Tidke

Professor and Head

Department of Botany

Sant Gadge Baba Amravati University, Amravati.



## Internship Programme at Govt. Pharmacy College, Amravati for M.Sc. Bioinformatics Students

Dr. Bhushan. A. Baviskar  
Asst. Professor,  
Government College of Pharmacy,  
Kathura Naka, Amravati-444604

### CERTIFICATE

This is to certify that the research work presented in this dissertation in entitled “3D-QSAR study on novel derivatives of clubbed triazolyl thiazole as potent antitubercular agent” by Miss. Ankita Vinodrao Bhojane. (P.G. Department of Bioinformatics, Shri Shivaji Science College, Amravati) in partial fulfillment for the requirements of the degree of **Master of Science (Bio-informatics)** in the faculty of pharmaceutical sciences, Sant Gadge Baba Amravati University, Amravati is carried out under my guidance and to my satisfaction such materials as obtained from other sources have been duly acknowledged in the thesis. The thesis is now ready for examination.



Dr. Bhushan. A. Baviskar

Research Guide  
**Dr. Bhushan A. Baviskar**  
Assistant Professor  
Govt. College of Pharmacy  
AMRAVATI-444604.

Date: 5/4/2019

Place: Amravati

**Dr. B. A. Baviskar**

**Asst. Professor,**

**Government college of Pharmacy,**

**Kathora Naka, Amravati**

## **CERTIFICATE**

This is to certify that the research work presented in this dissertation in entitled “**3D-QSAR studies of 5-alkyl-2-amino-3-methylcarboxylate thiophenes as potent anti-proliferative agents**” by **Miss. Namrata Rajendra Ghanmode** ( P. G. Department of Bio-informatics, Shri Shivaji Science College, Amravati ) in partial fulfillment for the requirements of the degree of **Master of Science (Bio-informatics)** in the faculty of pharmaceutical Sciences, Sant Gadge Baba Amravati University, Amravati is carried out under my guidance and to my satisfaction such materials as obtained from other source have been duly acknowledged in the thesis. The thesis is now ready for examination

**Date:** 05-04-2019

**Place:** Amravati

**Dr. B. A. Baviskar**

**Research Guide**

**Dr. Bhushan A. Baviskar**

Assistant Professor  
Govt. College of Pharmacy  
AMRAVATI-444604.

**Dr. B. A. Baviskar**

Asst. Professor,

Government college of Pharmacy,

Kathora Naka, Amravati

## CERTIFICATE

This is to certify that the research work presented in this dissertation in entitled **“2D-QSAR studies on 5-alkyl-2-amino-3-methylcarboxylate thiophene derivatives as novel anti-tumor agents”** by **Miss. Nikita Suresh Funde** ( P. G. Department of Bio-informatics, Shri Shivaji Science College, Amravati ) in partial fulfillment for the requirements of the degree of **Master of Science (Bio-informatics)** in the faculty of pharmaceutical Sciences, Sant Gadge Baba Amravati University, Amravati is carried out under my guidance and to my satisfaction such materials as obtained from other source have been duly acknowledged in the thesis. The thesis is now ready for examination

**Dr. B. A. Baviskar**

**Research Guide**

**Dr. Bhushan A. Baviskar**

Assistant Professor

Govt. College of Pharmacy

AMRAVATI-444604.

Date: 05-04-2019

Place: Amravati

Dr. Bhushan. A. Baviskar  
Asst. Professor,  
Government College of Pharmacy,  
Kathora Naka, Amravati-444604

## CERTIFICATE

This is to certify that the research work presented in this dissertation in entitled “**2D-QSAR study on novel clubbed triazolyl thiazole as potent anti-Mycobacterium tuberculosis agents**” by Miss. Pooja Ramchandra Kahane. (P.G. Department of Bioinformatics, Shri Shivaji Science College, Amravati) in partial fulfillment for the requirements of the degree of **Master of Science (Bio-informatics)** in the faculty of pharmaceutical sciences, Sant Gadge Baba Amravati University, Amravati is carried out under my guidance and to my satisfaction such materials as obtained from other sources have been duly acknowledged in the thesis. The thesis is now ready for examination.



Dr. Bhushan. A. Baviskar

**Research Guide**

**Dr. Bhushan A. Baviskar**  
Assistant Professor  
Govt. College of Pharmacy  
AMRAVATI-444604.

Date : 5/4/19

Place : Amravati



**Dr. B. A. Baviskar**

**Asst. Professor,**

**Government college of Pharmacy,**

**Kathora Naka, Amravati**

## **CERTIFICATE**

This is to certify that the research work presented in this dissertation in entitled **“Molecular docking studies of new berberine derivatives as immunotherapeutic anticancer property by targeting Indoleamine 2,3-dioxygenase”** by **Miss. Rashmi Dipak Kakde** ( P. G. Department of Bio-informatics, Shri Shivaji Science College, Amravati ) in partial fulfillment for the requirements of the degree of **Master of Science (Bio-informatics)** in the faculty of pharmaceutical Sciences, Sant Gadge Baba Amravati University, Amravati is carried out under my guidance and to my satisfaction such materials as obtained from other source have been duly acknowledged in the thesis. The thesis is now ready for examination



**Dr. B. A. Baviskar**

**Research Guide**

**Date: 5-4-2019**

**Place: Amravati**

**Dr. Shusnan A. Baviskar**  
Assistant Professor  
Govt. College of Pharmacy  
AMRAVATI-431001

## Internship Programme at SDMVM College of Agri. Biotechnology, Aurangabad for M.Sc. Bioinformatics Students

### CERTIFICATE

This is to certify that the project entitled “**Study of *rbcl* gene Sequences and Establishment of Phylogenetic relationship using computational method in Rice species**” has been completed by Miss.Manjiri P. Ghom under my supervision during the academic session 2018-2019 as a partial fulfillment of project of M.Sc.part II semester IV in Bioinformatics at SDMVM College of Agriculture Biotechnology, Georaitanda (kanchanwadi), Paithan road, Aurangabad. This report or a similar report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

Place: Aurangabad.

Date:

Signature:   
Mr. Sachin A. Tajne Supervisor

Asst. Prof. Sachin A. Tajne

Asst. Proff at SDMVM College of Agriculture  
Biotechnology, Georaitanda (kanchanwadi),  
Paithan road, Aurangabad.

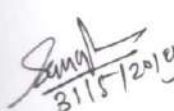
## Internship Programme at S.R.T.M Nanded University for M.Sc. Bioinformatics Students



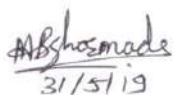
### CERTIFICATE

This is to certify that the Project/Dissertation entitled "project title **In-Silico Analysis of Andrographolide against Cancer**

"is a bonafide work done by **Vaishali Pradiprao Rakhe** (P.G. Department of Bio-informatics, Shri Sivaji Science College, Amaravati ) in partial fulfillment of Master of Science Degree in Bio-informatics and has been carried out under the supervision and guidance of **Mr. shyam Gajanan Ingle** (Shri Sivaji Science College, Amaravati). This report or a similar report on the topic has not been submitted for any other examination and does not from a part of any other course undergone by the candidate.

  
31/5/2019

Sign of Internal Examiner  
Examiner

  
31/5/19

  
31/5/19

Sign External



Sign of Coordinator

P.G. Department of Bio-informatics

Shri Shivaji Science College, Amaravti-444602

Date:

Place: Amravati

## Nanocatalysis Laboratory, Department of Chemistry, Visvesvaraya National Institute of Technology, Nagpur



**VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY**  
(Formerly V.R.C.E.),  
NAGPUR – 440 010 (INDIA)

**Dr. A.V. Wankhade**  
Assistant Professor,  
Department of Chemistry,  
E-mail: atulwa2006@yahoo.co.in

Ph. No. : 0712-2222828 (Ext. No. 1609), 22801357  
Fax No. : +91-712- 2223969, +91-712-2223230  
Mb. No. +91-9423402441

### LETTER OF COLLABORATION


DT:-26/10/2019


In line with the development of friendly cooperation in training courses and for the purpose of establishing long term mutual beneficial association, **Nanocatalysis lab, Department of Chemistry, Visvesvaraya National Institute of Technology, Nagpur** and **Shri Shivaji Science College, Amravati** join in the following letter of collaboration. Both parties agree to exercise their best efforts to develop the following forms of cooperation:


1. Establish ties of friendship and cooperation in training courses.
2. Theoretical and practical guidance of various instruments of Instrumentation Cell to the UG and PG students.

Both **Visvesvaraya National Institute of Technology, Nagpur** and **Shri Shivaji Science College, Amravati** are committed to working together to develop specific agreement on the points above. This agreement will fulfil the spirit and purpose of this general letter of intent.

  
Principal,  
Shri Shivaji Science College,  
AMRAVATI

  
Dr Shrikant A. Wadhal  
Associate Professor,  
Department of Chemistry  
Shri Shivaji Science College, Amravati

  
Dr Atul Wankhade,  
Assistant Professor, Nanocatalysis Lab  
Department of Chemistry  
Visvesvaraya National Institute of Technology,  
Nagpur

  
Dr. G.N. Chaudhari  
Head,  
Department of Chemistry  
Shri Shivaji Science College, Amravati  
Dept. of Chemistry  
Shri Shivaji Science College  
Amravati-444 605 (M.S.)



# Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati(M.S.)-444603

Accredited by NAAC with "A" Grade (very good) with a CGPA of 3.13  
College with Potential for Excellence

- ❖ Founder : Dr. Panjabrao Alias Bhausaheb Deshmukh
- ❖ President: Shri Harshvardhan P. Deshmukh
- ❖ Principal : Dr. V. G. Thakare
- ❖ E-mail : shivaji\_science@dataone.in

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Online one month National Training Course on  
**“Instrumental Techniques and Their  
Practical Applications for PG and Research  
Students”**

From 01/08/2020 to 31/08/2020

**Organized by Department of Chemistry,  
Value Based Course-2020**

## REPORT

Now a day candidates with core analytical skills, sound knowledge and practical significance and troubleshooting of different sophisticated analytical instruments are appreciated and required by all the research, manufacturing, processing and contract manufacturing industries as well as government & public testing labs.

This course designed to give huge scope and ample opportunities in different industries like Food, pharmaceuticals, agrochemicals, fine chemicals, cosmetics, oil and paints perfumery, beverages, rubbers, plastics, clinical research, forensic, public testing labs, etc. The Department of Chemistry, Shri Shivaji Science College, Amravati organized this one month value based national training course for PG and research students from 01/08/2020 to 31/08/2020 under the guidance of Dr V. G. Thakare, Principal, Shri Shivaji Science College Amravati, Dr H. S. Lunge, Coordinator, IQAC, Dr G. N. Chaudhari, Head, Department of Chemistry..Dr. Shrikant A. Wadhal, course coordinator, Mr. Amol Gawande, Scientist, Peaks Analytical and Research Centre, Nagpur, Dr. Amit Bansal, coordinator & Head SEAF & BDG, NEERI, Nagpur, Dr Atul Wankhade, Department of Chemistry, VNIT,

Nagpur provided online training regarding some latest instruments like HPLC, Gas Chromatography, GCMS, Atomic absorption Spectrophotometer, IR, UV- VIS double beam, UV –DRS, Karl Fischer instrument, ICP-OES used in laboratories and various companies.

Total 174 participants from different colleges from India participated in this course, out of 174 participants 124 qualified this course. Certificates provided to students with A,B,C grade depending on score secured (A> 75%, B> 60, C > 50%) 40% marks depends on assignment submitted and attendance and 60% marks will depend on final examination score.

**This course designed for:**

- PG and research students intending to work in a laboratory with scientific instrumentation.
- Students preparing for Industrial jobs after completion of PG and Ph.D. degree.
- The course designed for 40 hrs under value added course.

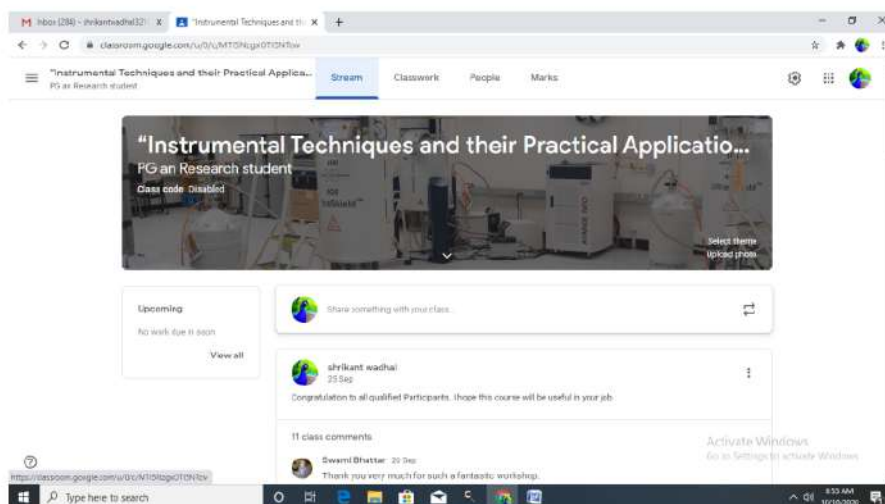
**The course objectives achieved:**

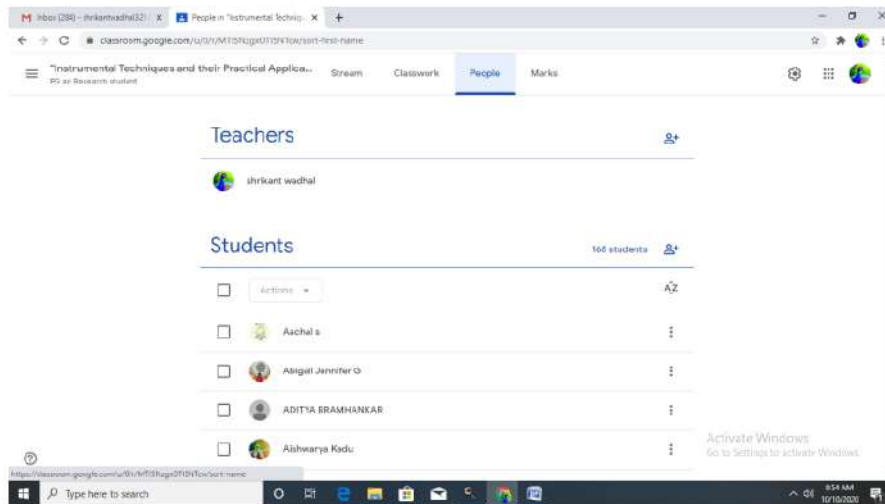
- To impart the required knowledge of Industrial Scope, Applications & Opportunities for Chemistry
- To impart the required knowledge, necessary skills & to provide the exposure to modern & sophisticated techniques of analysis that are being used all over the world including industries, government & public testing labs
- Theoretical knowledge of HPLC, Gas chromatography, IR, UV-Visible, XRD, Atomic Absorption Spectrophotometer, GCMS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), Karl Fischer instrument, UV diffraction equipments.
- Practical knowledge on HPLC, Gas Chromatography and IR, XRD and UV-Visible, Atomic Absorption Spectrophotometer, GCMS, Karl Fischer instrument, ICP-OES, UV diffraction equipments.
- To operate and to maintain the HPLC, GC and IR and XRD equipments.
- Instrumentation, Calibration and their practical applications in Industries.
- Wide courage will be given to Trouble shooting, Operation and method development skills.

- Perform cleaning evaluation on equipment for drug substance and residual detergents.
- Interactive sessions were engaged on zoom meeting .In these sessions interaction between participants and resource persons were held to solve difficulties regarding problems in the instrumentations.

#### Details of the course (ITPA 2020) conducted :-

The online education has become powerful response to assist this century's workforce in its growing need to acquire and develop skill. Total 175 participants from different colleges of India admitted in this online one month course “ ITPA 2020” . All the participants joined Google classroom for classwork. The details of Google classroom's work with links are as follow





The screenshot shows the 'Marks' tab of a Google Classroom, displaying a gradebook table. The table lists student names and their scores across various assignments and quizzes. The 'Class average' row shows 'N/A' for several items. The 'Missing' status is noted for some assignments.

Sort by: surname	Overall mark	No due date FINAL FEED...	No due date FINAL EXAMIN...	30 Aug Assignme nt V9 ...	No due date FEED BACK...	25 Aug Quiz Assignm...	20 Aug Assignme nt V...	14 Aug Assignme nt IV ...	10 Aug Assign nt III (T
<b>Class average</b>	N/A				N/A				
Aachal s	No mark	Handed in	80 Draft	18 Draft	Handed in	22 Draft	12 Draft	18 Draft	16 Draft
Abigail Jennifer G	No mark	Handed in	94 Draft	20 Draft	Handed in	30 Draft	20 Draft	18 Draft	19 Draft
ADITYA BRAMHANKAR	No mark	Handed in	82 Draft	8 Draft		14 Draft	18 Draft	16 Draft	20 Draft
Aishwarya Kadu	No mark	Handed in	62 Draft	20 Draft	Handed in	24 Draft	20 Draft	20 Draft	18 Draft
Aishwarya Puzant	No mark	Handed in	43 Draft	20 Draft		24 Draft	20 Draft	20 Draft	18 Draft
AISHWARYA UDHAD	No mark			Missing		Missing	Missing	Missing	Missing



**COURSE SESSIONWISE DETAILED INFORMATION WITH LINKS:**

These are the links of Theory, practical demonstration of HPLC, Gas chromatography, IR, UV-Visible, XRD, Atomic Absorption Spectrophotometer, GCMS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), Karl Fischer instrument, UV diffraction equipments.

Date	Name of the Session	Link of the session
		<a href="https://classroom.google.com/u/0/w/MTI5NzgxOTI5NTcw/tc/MTQxNjYxMTc5NTQ0">https://classroom.google.com/u/0/w/MTI5NzgxOTI5NTcw/tc/MTQxNjYxMTc5NTQ0</a>
1/08/20	Session 1: Introduction and Description of the Course	<a href="https://drive.google.com/file/d/1Pr3fgVfysnXHX08oo5yippwnqWf6pUwc/view?usp=sharing">https://drive.google.com/file/d/1Pr3fgVfysnXHX08oo5yippwnqWf6pUwc/view?usp=sharing</a>
01/08/20	Session 2: Industrial Scope, Applications and Opportunities for Instrumental Techniques.	<a href="https://drive.google.com/file/d/1IQW_vZBOaJd1e5VesCrX-XaMF4ngo3R3/view?usp=sharing">https://drive.google.com/file/d/1IQW_vZBOaJd1e5VesCrX-XaMF4ngo3R3/view?usp=sharing</a>
02/08/20	Session 3: Introduction and Instrumentation of HPLC	<a href="https://drive.google.com/file/d/1LM0z_mhfijlO2KLq9H2PkWSnPVUcC4l/view?usp=sharing">https://drive.google.com/file/d/1LM0z_mhfijlO2KLq9H2PkWSnPVUcC4l/view?usp=sharing</a>
03/08/20	Session 4: Reversed phase and Normal phase HPLC	<a href="https://drive.google.com/file/d/1q2caopUgCweKzQ77o06lxH6g8tEBc7sx/view?usp=sharing">https://drive.google.com/file/d/1q2caopUgCweKzQ77o06lxH6g8tEBc7sx/view?usp=sharing</a>
04/08/20	Session 5: Stationary phases and Mobile Phases in HPLC (Practical Demonstration)	<a href="https://drive.google.com/file/d/139n_rMAj5QoLh7iv1vDdLBy-gm_U695Q/view?usp=sharing">https://drive.google.com/file/d/139n_rMAj5QoLh7iv1vDdLBy-gm_U695Q/view?usp=sharing</a>
05/08/20	Assignment	1. <a href="https://classroom.google.com/c/MTI5NzgxOTI5NTcw/a/MTlyMTMxOTg2MTc2/details">https://classroom.google.com/c/MTI5NzgxOTI5NTcw/a/MTlyMTMxOTg2MTc2/details</a> 2. <a href="https://docs.google.com/forms/d/1zt8Gokv3cSBZt6RjZv-izdcpOTbzecR08-lq5hfMbw/edit?usp=sharing">https://docs.google.com/forms/d/1zt8Gokv3cSBZt6RjZv-izdcpOTbzecR08-lq5hfMbw/edit?usp=sharing</a>
05/08/20	Session 6: Preparation of Mobile Phase and Sample (Practical Demonstration)	<a href="https://drive.google.com/file/d/1T8U0B84oraVjg1UBa4FULrjHwch98lLn/view?usp=sharing">https://drive.google.com/file/d/1T8U0B84oraVjg1UBa4FULrjHwch98lLn/view?usp=sharing</a>
06/08/20	Session 7: Calibration of HPLC Part- I (Practical Demonstration)	<a href="https://drive.google.com/file/d/1DLWDq-T_LG_P4vsVBKqa5Nswvb_DnEv8/view?usp=sharing">https://drive.google.com/file/d/1DLWDq-T_LG_P4vsVBKqa5Nswvb_DnEv8/view?usp=sharing</a>
07/08/20	FeedBack Form	1. <a href="https://classroom.google.com/c/MTI5NzgxOTI5NTcw/a/MTlyNDUzMTgwNDYy/details">https://classroom.google.com/c/MTI5NzgxOTI5NTcw/a/MTlyNDUzMTgwNDYy/details</a> <a href="https://docs.google.com/forms/d/e/1FAIpQLSc3iWbSUCmOZ9cx8lt69l7EYSoadXozJm6-_kiv6gwMORveBA/viewform?authuser=0">https://docs.google.com/forms/d/e/1FAIpQLSc3iWbSUCmOZ9cx8lt69l7EYSoadXozJm6-_kiv6gwMORveBA/viewform?authuser=0</a>
07/08/20	Assignment	<a href="https://classroom.google.com/c/MTI5NzgxOTI5NTcw/a/MTQx">https://classroom.google.com/c/MTI5NzgxOTI5NTcw/a/MTQx</a>

		<a href="https://docs.google.com/forms/d/e/1FAIpQLScMddMN-GLRb0CfmVn5ZL-caXFE498rBhCJ15pqUIM-DN-G2g/viewform?authuser=0">OTk1NDEwNDMw/details</a> <a href="https://docs.google.com/forms/d/e/1FAIpQLScMddMN-GLRb0CfmVn5ZL-caXFE498rBhCJ15pqUIM-DN-G2g/viewform?authuser=0">https://docs.google.com/forms/d/e/1FAIpQLScMddMN-GLRb0CfmVn5ZL-caXFE498rBhCJ15pqUIM-DN-G2g/viewform?authuser=0</a>
07/08/20	Session 8: Calibration of HPLC Part- II (Practical Demonstration)	<a href="https://drive.google.com/file/d/1KTh7Dp2HSn6AzVuAVjW3adM0df_muqSg/view?usp=sharing">https://drive.google.com/file/d/1KTh7Dp2HSn6AzVuAVjW3adM0df_muqSg/view?usp=sharing</a>
08/08/20	Session 9: Online Demonstration of HPLC on ZOOM	<a href="https://drive.google.com/file/d/1GVu4RRRFy9bpTfRjNjYt-9Mp-aozizVd/view?usp=sharing">https://drive.google.com/file/d/1GVu4RRRFy9bpTfRjNjYt-9Mp-aozizVd/view?usp=sharing</a>
09/08/20	Session 10: Trouble Shooting: HPLC	<a href="https://drive.google.com/file/d/1kpHlBOzLuurfAzAqRp48NbedsAgUmo2x/view?usp=sharing">https://drive.google.com/file/d/1kpHlBOzLuurfAzAqRp48NbedsAgUmo2x/view?usp=sharing</a>
11/08/20	Session 11: Infra Red Spectroscopy: Instrumentation and Working	<a href="https://drive.google.com/file/d/1ZKCOJXwsZEE5OgwYjKZ_k91jWYiOQLNu/view?usp=sharing">https://drive.google.com/file/d/1ZKCOJXwsZEE5OgwYjKZ_k91jWYiOQLNu/view?usp=sharing</a>
	FEEDBACK FORM	<a href="https://docs.google.com/forms/d/1yGTv8HwRJDwWaNPLbT6f-giKSugilOLLvQlvn14rKn6k/edit?usp=sharing">https://docs.google.com/forms/d/1yGTv8HwRJDwWaNPLbT6f-giKSugilOLLvQlvn14rKn6k/edit?usp=sharing</a>
12/08/20	Session 12: Practical Demonstration of FTIR Instrument	<a href="https://drive.google.com/file/d/1afhPHZgGMqKqWAQhBvMTMHoPBty2ZUYR/view?usp=sharing">https://drive.google.com/file/d/1afhPHZgGMqKqWAQhBvMTMHoPBty2ZUYR/view?usp=sharing</a>
13/08/20	Session 13: Infra Red Spectroscopy: Theory and Interpretation of IR Spectral Problems.	<a href="https://drive.google.com/file/d/1g2YQ5DIATXQwbnc11g-aQRah6PkLDYnR/view?usp=sharing">https://drive.google.com/file/d/1g2YQ5DIATXQwbnc11g-aQRah6PkLDYnR/view?usp=sharing</a>
	Assignment	<a href="https://classroom.google.com/c/MTI5NzgxOTI5NTcw/a/MTM4NTUzMDYwNTcz/details">https://classroom.google.com/c/MTI5NzgxOTI5NTcw/a/MTM4NTUzMDYwNTcz/details</a> <a href="https://docs.google.com/forms/d/1bPHRxxueaqHAN7wbN6vDT5TQHihkv-kywFqh7mq0Xxy/edit?usp=sharing">https://docs.google.com/forms/d/1bPHRxxueaqHAN7wbN6vDT5TQHihkv-kywFqh7mq0Xxy/edit?usp=sharing</a>
14/08/20	Session 14: Gas Chromatography: Theory and Instrumentation	<a href="https://drive.google.com/file/d/19ELozgYvxTZaViVd0xH7t7pum389NPJP/view?usp=sharing">https://drive.google.com/file/d/19ELozgYvxTZaViVd0xH7t7pum389NPJP/view?usp=sharing</a>
15/08/20	Session 15: Practical Demonstration of GC ( Part: 1)	<a href="https://drive.google.com/file/d/1koCi84i3i2ZnFp81bWdKOOl47aTJ1lzo/view?usp=sharing">https://drive.google.com/file/d/1koCi84i3i2ZnFp81bWdKOOl47aTJ1lzo/view?usp=sharing</a>
16/08/20	Session 16: Practical Demonstration of GC (Part : 2)	<a href="https://drive.google.com/file/d/12dUN7WgzlioST4NqpC64cSYmuHe0eTEg/view?usp=sharing">https://drive.google.com/file/d/12dUN7WgzlioST4NqpC64cSYmuHe0eTEg/view?usp=sharing</a>
17/08/20	Session 17: Calibration of Gas Chromatography ( Practical Demonstration) <b>Interactive Session on Zoom</b>	<a href="https://drive.google.com/file/d/1Gwlll932P-Wd0FC_sOYLqzEmNeUAH69/view?usp=sharing">https://drive.google.com/file/d/1Gwlll932P-Wd0FC_sOYLqzEmNeUAH69/view?usp=sharing</a>
18/08/20	Session 18: Instrumentation of X-Ray Diffraction	<a href="https://drive.google.com/file/d/1SejlQmYbggnFatRHn4X5L8zFA5erGwEA/view?usp=sharing">https://drive.google.com/file/d/1SejlQmYbggnFatRHn4X5L8zFA5erGwEA/view?usp=sharing</a>
	Assignment	<a href="https://docs.google.com/forms/d/16jMSi7ptl8LUeXwTWm2IS-">https://docs.google.com/forms/d/16jMSi7ptl8LUeXwTWm2IS-</a>

		<a href="https://drive.google.com/file/d/1ZhaNjbBkfcKQ-B7p4tYbs/edit?usp=sharing">ZhaNjbBkfcKQ-B7p4tYbs/edit?usp=sharing</a>
19/08/20	Session 19: Practical Demonstration of X-Ray Diffractometer	<a href="https://drive.google.com/file/d/1_ekLUFioj220PRrLBjr5tPU7YlfG531U/view?usp=sharing">https://drive.google.com/file/d/1_ekLUFioj220PRrLBjr5tPU7YlfG531U/view?usp=sharing</a>
20/08/20	Session 20: Determination of water content by Karl Fisher Instrument	<a href="https://drive.google.com/file/d/10uZpQtCxGOHz9Eghnji0LD-Dv-KxKy3e/view?usp=sharing">https://drive.google.com/file/d/10uZpQtCxGOHz9Eghnji0LD-Dv-KxKy3e/view?usp=sharing</a>
22/08/20	Session 21: Demonstration UV-Visible Spectrophotometer	<a href="https://drive.google.com/file/d/1-ezIHiucf_OMa9AXDla3g2tzV00MRqkh/view?usp=sharing">https://drive.google.com/file/d/1-ezIHiucf_OMa9AXDla3g2tzV00MRqkh/view?usp=sharing</a>
	Assignment	<a href="https://classroom.google.com/u/0/w/MTI5NzgxOTI5NTcw/tc/MTQzMjY1NDY1NzY2">https://classroom.google.com/u/0/w/MTI5NzgxOTI5NTcw/tc/MTQzMjY1NDY1NzY2</a> <a href="https://docs.google.com/forms/d/e/1FAIpQL5dJ54DzDS1Cy8rbfPttP6DulFcI2q3FLLQxK6s445L7OpxA/viewform?authuser=0">https://docs.google.com/forms/d/e/1FAIpQL5dJ54DzDS1Cy8rbfPttP6DulFcI2q3FLLQxK6s445L7OpxA/viewform?authuser=0</a>
23/08/20	Session 22: Practical Demonstration of Atomic Absorption Spectrophotometer	<a href="https://drive.google.com/file/d/1lz31iqSu7gurE96_vfnVbcvatYJcaP7U/view?usp=sharing">https://drive.google.com/file/d/1lz31iqSu7gurE96_vfnVbcvatYJcaP7U/view?usp=sharing</a>
24/08/20	Interactive Session	Online on Zoom
25/08/20	Session 23: Calibration of UV – Visible Spectrophotometer	<a href="https://drive.google.com/file/d/1qT0Pba7C6YObGImUpw1Xhf829V5N0Tky/view?usp=sharing">https://drive.google.com/file/d/1qT0Pba7C6YObGImUpw1Xhf829V5N0Tky/view?usp=sharing</a>
	Quiz Assignment	<a href="https://docs.google.com/forms/d/1iKTCiRlRQFLvLxKEpF9QlbVn4-AM1ZxpyNRzx9uKTUE/edit?usp=sharing">https://docs.google.com/forms/d/1iKTCiRlRQFLvLxKEpF9QlbVn4-AM1ZxpyNRzx9uKTUE/edit?usp=sharing</a>
26/08/20	Session 24: Diffuse Reflectance Spectroscopy: Principles and Applications	<a href="https://drive.google.com/file/d/1EekPrH0cXu7TUDTezZc0TPth-iFKMtWU/view?usp=sharing">https://drive.google.com/file/d/1EekPrH0cXu7TUDTezZc0TPth-iFKMtWU/view?usp=sharing</a>
26/08/20	Session 25: Practical Demonstration of Diffuse Reflectance Spectroscopy	<a href="https://drive.google.com/file/d/1gsb3D_1Uw6-lqVgaVzXCVqt-Nj0DxDGG/view?usp=sharing">https://drive.google.com/file/d/1gsb3D_1Uw6-lqVgaVzXCVqt-Nj0DxDGG/view?usp=sharing</a>
27/08/20	Session 26: GC and GCMS : Theory and Basic Principles	<a href="https://drive.google.com/file/d/1DhdBrwH_BbIP_Jb5ZADpkmiX7MCmr2v2/view?usp=sharing">https://drive.google.com/file/d/1DhdBrwH_BbIP_Jb5ZADpkmiX7MCmr2v2/view?usp=sharing</a>
	Assignment	<a href="https://docs.google.com/forms/d/1-jo5RED20fdb5MT8mMsZwcCld3NGEH9qzBO8I2yac/edit?usp=sharing">https://docs.google.com/forms/d/1-jo5RED20fdb5MT8mMsZwcCld3NGEH9qzBO8I2yac/edit?usp=sharing</a>
27/08/20	Session 27: Practical demonstration of GC and GCMS	<a href="https://drive.google.com/file/d/1xDTOArxPevBrZys6Zr_JecxeyxfEr4Gx/view?usp=sharing">https://drive.google.com/file/d/1xDTOArxPevBrZys6Zr_JecxeyxfEr4Gx/view?usp=sharing</a>
28/08/20	Session 28: Inductively Coupled Plasma Optical Spectrometer (ICP-OES): Principles and Applications	<a href="https://drive.google.com/file/d/1IqvQp2uVt-9z4AS9g7l77OQB36bkAy5o/view?usp=sharing">https://drive.google.com/file/d/1IqvQp2uVt-9z4AS9g7l77OQB36bkAy5o/view?usp=sharing</a>
29/08/20	Session 29: Practical Demonstration of	<a href="https://drive.google.com/file/d/1BLxLBJ3_cNQBsMHVbAcyhzG">https://drive.google.com/file/d/1BLxLBJ3_cNQBsMHVbAcyhzG</a>

	Inductively Coupled Plasma Optical Spectrometer (ICP-OES)	<a href="https://p4t5Vqww66/view?usp=sharing">P4t5Vqww66/view?usp=sharing</a>
31/08/20	Final Examination	<a href="https://docs.google.com/forms/d/1QmtmYm8ZV-dYft4t2D0b4OXXshvg5-CUb7hzHly710M/edit?usp=sharing">https://docs.google.com/forms/d/1QmtmYm8ZV-dYft4t2D0b4OXXshvg5-CUb7hzHly710M/edit?usp=sharing</a> <a href="https://classroom.google.com/u/0/w/MTI5NzgxOTI5NTcw/tc/MTQzOTM2NDc2Mzg1">https://classroom.google.com/u/0/w/MTI5NzgxOTI5NTcw/tc/MTQzOTM2NDc2Mzg1</a>
	Valedictory Function	Online on Zoom
21/09/20	Result Declaration and Certificate distribution	Online e-certificate and Hard copies distribution <a href="https://drive.google.com/file/d/1gFlynOxdzaveQKJdYKOFkTOYjw1Sbjj0/view?usp=sharing">https://drive.google.com/file/d/1gFlynOxdzaveQKJdYKOFkTOYjw1Sbjj0/view?usp=sharing</a>
	RESULT	<a href="https://drive.google.com/file/d/1okItGwBHfiE8m1MHIAVvex5PJnNlxhSx/view?usp=sharing">https://drive.google.com/file/d/1okItGwBHfiE8m1MHIAVvex5PJnNlxhSx/view?usp=sharing</a>
	Exam Notice	<a href="https://drive.google.com/file/d/1y-00apK8whp_K52SMWMSSu1E7Imf3wBh/view?usp=sharing">https://drive.google.com/file/d/1y-00apK8whp_K52SMWMSSu1E7Imf3wBh/view?usp=sharing</a>
	FEEDBACK FORM FINAL	<a href="https://docs.google.com/forms/d/1MoJGG85lzKBmDDIPvdgIBDew-2YyO6JT0EHuyvKUuTw/edit?usp=sharing">https://docs.google.com/forms/d/1MoJGG85lzKBmDDIPvdgIBDew-2YyO6JT0EHuyvKUuTw/edit?usp=sharing</a>



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**“Instrumental Techniques and their Practical Applications  
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with

**RESULT ( ITPA-2020)**

( Out of 175 participants 124 participants qualified this course. The list of successful candidates with grade scored.)

( Grade A+ : Outstanding, A: Good, B: Satisfactory)

<b>Sr No</b>	<b>Name of the Participant</b>	<b>Name of the Institute/College</b>	<b>E-mail ID</b>	<b>Grade</b>
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54	Kalyani Premal Bhalavi	Gov. Institute Of Science Nagpur	kalyanibhalavi98@gmail.com	A+
55	Samiksha Yuvarajji Armal	Shri Shivaji Science College Amravati	samiarmal1977@gmail.com	A
56	NILESH KESHAVRAO PATIL	SHRI SHIVAJI SCIENCE COLLEGE AMARAVTI	patilneel.np@gmail.com	B
57	Riru M. Sharma	Institute of Science , Nagpur	ritusharma.rs1626@gmail.com	A+
58	Ambarish Abhijit Sahasrabuddhe	Shri Shivaji Science College Amravati.	10ambarishs@gmail.com	A+
59	Raj	Pune	praj27058@gmail.com	Fail
60	Kadu snehal Ramdas	Arts commerce and science colleges satral	snehalkadu902@gmail.com	A+
61	Mr.Amol Vishnu Sapkal	Phulsing Naik Mahavidyalaya, Pusad	sapkalamol9chem@gmail.com	A+
62	Vikram Jagannath Satao	VBMV amravati	sataovikram02@gmail.com	B
63	Tejaswini Vilasrao gunjal	Shri Shivaji science College Amravati	bioinfotejaswini@gmail.com	A



64	Ms. Komal Prabhulalji Joshi	Shri Shivaji Science College Amravati	komal2525joshi@gmail.com	A+
65	Prajakta Gajanan Badarkhe	Shri Shivaji Science College, Amravati	prajaktabadarkhe7@gmail.com	A+
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67	Sahista Parveen	Institute of Science	sahista11235@gmail.com	A+
68	Prof. GANESH KESHAORAO BHOYAR	PHULSING NAIK MAHAVIDYALAYA PUSAD	gbhoyar2@gmail.com	A+
69	Ashwini S.Indurkar	Institute of Science , Nagpur	ashuindurkar000@gmail.com	A+
70	Ku. Punam Madhukar Damdhar	Govt. Vidarbha Institute of science and humanities, Amravati	punamdamdhar187@gmail.com	A
71	Ruchika vinod khonde	Government vidharbh institute of science and Humanities Amravati	khonderuchika6@gmail.com	A+
72	Diksha Dattatraya Sonone	Govt. Vidarbha Institute of Science and Humanities, Amravati.	dikshasonone1998@gmail.com	A+
73	Sagar Satish Barad	Brijlal Biyani Science College Amravati	sagarbarad04@gmail.com	A+
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79	Radhika Sukhdeo Jakhotiya	Shri Shivaji Science College Amravati	radhikajakhotiya1999@gmail.com	A
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82	Vikram Vijay Kobarne	Arts Commerce & Science College, Satral, Tal-Rahuri, Dist-Ahmednagar	vikramkobarne96@gmail.com	A+
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85	Sarthak Ashok Bhisikar	Institute of Science, Nagpur	sarthak.bhisikar@gmail.com	A
86	Anushree Ambadas sable	Government vidarbha institute of science and humanities Amravati.	ammabhagwan1989@gmail.com	A
87	Mr. Jayesh Shankar Waghmare	G. S. G. College Umarkhed	patiljsw2612@gmail.com	A+
88	GAYATRI GAJANAN HARNE	Shri Shivaji Science College Amravati	gayatriharne001@gmail.com	A+
89	KU. Jyotsana Krushna Kubde	Mahatma fule art's commerce and sitaramji chaudhari science Mahavidyalaya warud	jkubde1@gmail.com	A+
90	Mukta Pradiprao Chopade.	Government vidarbha Institute of science and humanities Amravati.	muktachopade0@gmail.com	A+
91	Ashlesha Dhananjay Basatwar	Amolakchand Mahavidyalaya Yavatmal	ashleshabasatwar@gmail.com	A+
92	SHIVAM RAM NAKKALWAR	Brijala biyani science college, Amravati	shivamnakkalwar8@gmail.com	A+
93	KULDIP RANJIT INGLE	Shri Shivaji Science College Amravati	kuldipi2016@gmail.com	A+
94	ZAID ALI	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	Zaidalisyed07@gmail.com	A+
95	Shrikant Sanjay Tijare	Vidhyabharti mahavidhyalaya amravati	shrikanttijate988@gmail.com	A+
96	Najaf khanam Qaiyyum shah	Mahatma fule mahavidyalaya	Najafshah@gmail.com	A+
97	Neeraj Umesh Dwivedi	Shri Shivaji Science College Amravati	neerajdwivedi7030@gmail.com	A+
98	Ankita Arunrao	Mhatma fule Mahavidhyalya	ankitaarunraowade@gmail.com	A+

	Wade	Warud.		
99	Ku. Koyal Ganpatrao Wankhede	Mahatma Fule Art's Commerce and Sitaramji Chaudhari Science Mahavidyalaya, Warud	koyalwankhede1@gmail.com	
100	Harsha Ramdas Satange	Mahatma fule college warud	harshasatange12@gmail.com	A+
101	Vaishnavi Wattamwar	Shri shivaji science college Amravati	wattamwarvaishnavi77@gmail.com	A+
102	Sahyadri Vinod Levharkar	Government Vidharbh Institute of science and Humanities Amravati	sahyadrilevharkar@gmail.com	A+
103	Dipali Kishorrao Sabale	Mahatma fule mahavidhyalay ,warud	dipalisabale66@gmail.com	A+
104	Samiksha pralhadrao Bidkar	Shri Shivaji Science College Amravati	bioinfosamiksha@gmail.com	A+
105	MOHD. SHAFIQUE AAMIR. MOHD. ILYAS	Vidya Bharati Mahavidyalaya college amravati	shafaqueaamir786@gmail.com	A+
106	Apurva Sanjay Thakare	Govt Vidharbha Institute of Science and Huminity, Amravati.	apurvathakare1999@gmail.com	A+
107	devidas kanade	gsg	devidas.kanade@gmail.com	A
108	Ms. Pradnya Rajendra Mehare	Shri Shivaji Science College Amravati	pradnyamehare123@gmail.com	A+
109	VIVEK DNYANESHWAR GADE	Phulsing Naik Mahavidyalaya Pusad	gadevivek8@gmail.com	A+
110	DIVYA SAHEBRAO SAHARE	Arts Commerce & Science College, Kiran nagar, Amravati	divyasahare89@gmail.com	A+
111	Swati Radhesham Jaiswal	Shri shivaji science college Amravati	www.swatijaiswal.com@gmail.com	A
112	RUSHABH SANJAY FUKTE	BRIJLAL BIYANI SCIENCE COLLEGE	rushabhfukte01@gmail.com	A+
113	Janhvi Bhaurao Malode	shri shivaji science collage, Amravati	janhvim2015@gmail.com	A+
114	Miss Snehal Gajananrao Watane	Shri Shivaji Science College Amravati	snehalwatane2016@gmail.com	A+
115	Chetan Soye	Shri shivaji science college Amravati	chetasoye@gmail.com	A+

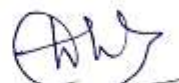
	Watane	Amravati		
115	Chetan Sove	Shri shivaji science college Amravati	chetasoye@gmail.com	A+
116	Aditya Xishor Bramhankar	Shri. Shivaji science college Amravati	bramhankaraditya6@gmail.com	A+
117	Shruti Girish Ghulaxe	Shri shivaji science college Amravati	shrutighulaxe3@gmail.com	A+
118	Rahul uttam pawar	Ferguson college pune	rahulupawar9tZl@gmail.com	A+
119	Purva Bhashkar Umbarkar	Government Vidarb Institute of science and Humanities Amravati	purvaumbarkar8@gmail.com	A+
120	Suman Harisingh Raieurohit	Brijjal Biyani Science College Amravati	sumanrajpu357t@gmail.com	A+
121	Prajakta Tarkeshwar Phlewan	Shri Shivaji Science college Amravati	bioinfoeraiakta@gmail.com	A+
122	Anruddha Sanjayrao Hande	Shri. Shivaji Science College Amravati	anihande97@gmail.com	A+
123	Komal Shivaji Thakur	Birjal Biyani Science College, Amravati	ithakurkomal11@gmail.com	A+
124	Pallavi shikrishna Lingot	Shri Shivaji science College	lingot8@gmail.com	B
	RESULT SHEET	<a href="https://drive.google.com/file/d/15mbDGNeABj0XISufmXCy3bcQMQR7e/view?usp=sharing">https://drive.google.com/file/d/15mbDGNeABj0XISufmXCy3bcQMQR7e/view?usp=sharing</a>		

( For any query contact on this Mob No : 9356270547)



Dr. Shrikant A. Wadhal

Course Coordinator



Dr. G. N. Chaudhari

Head of Department

DEPT. OF CHEMISTRY  
Shri Shivaji Science College,  
Amravati-444 605 (M.S.)



## Collaborative research of Deptt of Environmental Science with Geotech GIS Training Institute, Aurangabad



GIS Software  
Watershed Mapping  
Asset Mapping  
QGIS & Web GIS

Ref No.: 145/2018

Date : 02/08/2018

### CERTIFICATE

Certified that the project work *entitled* "Land Use/Land Cover Mapping of Amravati Taluka, Maharashtra Using GIS And RS Techniques" is a bonafide work carried out by Miss. Karuna H. Sonone in partial fulfillment for the award of Master of Environment Science from Shri Shivaji Science College, Amravati, during year 2018-2019 Under the Geotech GIS Training Institute And Consultancy Services, Aurangabad. It is certified that the project report has been approve as it satisfy the academic requirement in respect of project work prescribed for the said degree.

Mr. Vikas D. Ghadamode  
Assistant Professor

Mr. Aniket R. Borgawkar  
Signature of Director

Miss. Shivali M. Deshmukh  
Assistant Professor



Address : Gajanan Maharaj Mandir Road, Opposite CADA Office Aurangabad 431001



Contact: @geotechinstitute.com

Website -geotechinstitute.com



**GeoTech**  
GIS TRAINING & CONSULTANCY SERVICES

GIS Software  
Watershed Mapping  
Asset Mapping  
QGIS & Web GIS

Ref No.: 146/2018

Date : 02/08/2018

## CERTIFICATE

Certified that the project work *entitled* "Delineation of Groundwater Potential Zone in Bhatkulijain Taluka, Maharashtra using Remote Sensing And GIS Techniques" is a bonafide work carried out by Miss. Mrunali G. Bhagat in partial fulfillment for the award of Master of Environment Science from Shri Shivaji Science College, Amravati, during year 2018-2019 Under the Geotech GIS Training Institute And Consultancy Services, Aurangabad. It is certified that the project report has been approve as it satisfy the academic requirement in respect of project work prescribed for the said degree.

Mr. Vikas D. Ghadamode  
Assistant Professor

Mr. Aniket R. Borgawkar  
Signature of Director

Miss. Shivali M. Deshmukh  
Assistant Professor



Address : Gajanan Maharaj Mandir Road, Opposite CADA Office Aurangabad 431001

Contact: @geotechinstitute.com

Website: -geotechinstitute.com

## Organization of "National Symposium on Innovative Materials and Devices-2019"

DEPARTMENT OF PHYSICS

SANT GADGE BABA AMRAVATI UNIVERSITY

पान क्र. /N

**Subject: Organization of Symposium and Allotment of Financial Assistance from Budget-Best Practices.**

Sir Following is submitted for consideration.

1. The department of Physics and Shri Shivaji Science College jointly organizing National Symposium on "Innovative Materials and Devices" during June 24-25, 2019. (First Announcement is enclosed)
2. Important fact is that, many important personalities have agreed to be part of this event. (The list is enclosed.)
3. Necessary formalities are being under process. The event is proposed as per the Rule 5/2015 and accordingly the Appendix A and B is submitted for your perusal. Tentative budget is around Rs. 9.0 L and the process for requesting (about 10 granting agencies) for Financial Assistance is under process. (Annexure-A & B enclosed for perusal)
4. Since our senate meeting is getting delayed and accordingly approval to budget for FY 2019-20 may also get delayed.
5. UGC grants for the FY 2019-20 are yet to be released and hence it becomes necessary to allot the financial assistance to this event under Best Practices of the university.
6. However we submit that earlier during February 7-9, 2006 we organized NCLA-2006 at our University and amount of Rs. 1,23,863/- is balance in the University General Fund. (Total Receipts were Rs. 6,79,606/- and Total expenditure was Rs. 5,55,743/-). This still not utilized and can also be provided to this proposed event in additional.

Your are kindly requested to approve

- a. Give permission to organize the event.
- b. Note the first circular & list of the Invited Speakers and
- c. Approve the budget provision of Rs. 3,00,000/- for the event in view of delay in Senate meeting.

Submitted for necessary action.

Finance & Accounts Officer

Registrar

Honourable Vice Chancellor

*(Signature)*  
Head

(A) Approved in respect of 'C'.

*(Signature)*  
30-3-19

Phy/1051  
30/3/19



**DEPARTMENT OF PHYSICS**  
**SANT GADGE BABA AMRAVATI UNIVERSITY** संत गाडगे बाबा अमरावती विद्यापीठ  
पान क्र. /N

**Subject: Providing the Facilities.**

Honourable Vice Chancellor has given permission under **Rule 5/2015** for organizing the Event "National Symposium on Innovative Materials and Devices" during June 24-25, 2016.

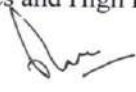
As per the Rule 5/2015, under Sanction (C)

- क) उपक्रमास मंजूरी प्राप्त होणे म्हणजे विद्यापीठातील विद्यापीठाचे मालकीचे उपलब्धतेनुसार खालील नमुद सेवा/शोयी विनामुल्य प्रदान करण्याची जबाबदारी कुलसचिवाची राहिल.
- १) श्रोतुगृह (सर्व प्रकारचे)
  - २) सेमिनार हॉल
  - ३) अतिथीगृह
  - ४) परिकाक वस्तीगृह
  - ५) विद्यापीठ वस्तीगृह (मुले/मुली)
  - ६) वाहन (सर्व प्रकारचे)

Accordingly, all the controlling officers are requested to reserve the expected facility in view of the approved event- NSIMD-2019.

  
Head

It is instructed that, the indicated Rooms/Vehicles/Auditorium/AV Theatre is to be reserved for the Event NSIMD-2019 for which many dignitaries and High Profile persons are visiting the university.

Registrar 

- i. In-charge Guest House for reservation of all 16 rooms (both floors) and TWO VVIP-Suits during June 23-26 for accommodation of High profile Guests (Total of 26) of NSIMD-2019. (List is enclosed.)
- ii. Director, HRDC, SGBAU for reservation of the rooms in the HRDC Guest house during 23-26 June 2019 for Faculties visiting for the event. NSIMD-2019(List will be provided during First week of June 2019)
- iii. Director Examination & Evaluation/Asst. Registrar (Conf) who is the in-charge of Valuers' Hostel for reservation of 45 Rooms during June 23-26 for accommodation of Participants of NSIMD-2019 (List will be provided during First week of June 2019)
- iv. In-charge Shivajirao Patwardhan Research Hostel for reservation of all rooms (both floors) during June 23-26 for accommodation of participants of NSIMD-2019(List will be provided during First week of June 2019)
- v. Warden Boys'/Girls' Hostel for reservation of 30 Rooms during June 23-26 for accommodation of Participants of NSIMD-2019 (List will be provided during First week of June 2019)
- vi. Asst. Registrar (GAD) for
  - a. Reservation of Dr. K. G. Deshmukh Auditorium and A.V. Theatre for only one day i.e. 24 June 2019 for organization of the event.
  - b. University Bus, Tata Sumo and one Car (3 vehicles) for NSIMD-2019



**DEPARTMENT OF PHYSICS**  
**SANT GADGE BABA AMRAVATI UNIVERSITY** बा अमरावती विद्यापीठ  
 पान क्र. 3/N

**Subject: Opening a Savings Bank Account in the name of "NSIMD-2019"**

Honourable Vice Chancellor has given permission under **Rule 5/2015** for organizing the Event "National Symposium on Innovative Materials and Devices" during June 24-25, 2016.

As per the Rule 5/2015, (General Procedure for working at Sr. No. 6) it is necessary to open temporary savings account in the nationalized bank in the Campus in the name of event.

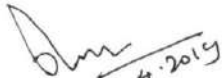
The details of Bank and Operators are given below:

Name of the bank	Bank of Maharashtra, SGBAU Branch, University Campus, Amravati-444602
Head of the Department of Physics & Organizing Chairman	Dr. S. K. Omanwar
Conveners NSIMD-2019	Dr. V. B. Bhatkar Dr. G. G. Muley
Organizing Secretary NSIMD-2019	Dr. P. A. Nagpure

The letter draft addressed to Branch Manager, Bank of Maharashtra, SGBAU Branch, University Campus, Amravati is put up for the approval and due signature.


  
Head

Registrar

  
3.4.2016

Instead of Dr. G.G. Muley; Dr. S.A. Waghuley is a convener, this is as per the desire of Dr. G.G. Muley. Hence the Letter to Branch Manager, BOM is revised accordingly and put up for your due signature.

Registrar.

  
3.4.2016

## Organization of "Two Days Training on Synthesis of Nanomaterials" in Collaboration with IIT Kharagpur and Make Intern



Waman Barde &lt;sscphysics1@gmail.com&gt;

---

### Acknowledged Mail

1 message

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**ANMOL GOLA** <anmolg@makeintern.com>  
To: sscphysics1@gmail.com

17 January 2019 at 09:27

Respected Sir,

Greetings,

Thanks for your confirmation, we acknowledged your participation in the (Makeintern) & Ecell-fest Event of IIT Kharagpur.

We will be sending you the Marketing material for respective event so that you can propagate the session nearby your vicinity.

**Topic : Synthesis of Nano Materials,**  
**Date : 17th and 18th February 2019**

We are willing to serve you a great experience with us.

**Thanks & Regards:**  
**Anmol Gola**  
**Coordinator**  
**Makeintern.com**  
**Web: www.makeintern.com**  
**Mob: 7290085798**



Sender notified by  
Mailtrack



SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
**SHRI SHIVAJI SCIENCE COLLEGE**  
 (Accredited by NAAC with "A" grade, A College with Potential for Excellence)  
 Shivaji Nagar, Morshi Road, Amravati-444603, M.S.

Founder : Dr. Panjabrao Alias Bhausaheb Deshmukh  
 President : Hon'ble Shri. Harshavardhan Deshmukh  
 Principal : Dr. V. G. Thakare  
 E-mail : shivajiscamt.office@gmail.com Website : www.shivajiscamt.org  
 Off : (0721) 2660855; Res.(0721) 2551400, 2553130; Fax : (0721) 2665485

Ref.

Date: 16/01/2019

To,

**Sub: Confirmation letter for workshop**

Dear Sir/Madam,

This is to bring under your kind notice that our college confirms Makeintern training will be held in our campus.

**Name of the College:** Shri Shivaji Science College, Amravati  
**Topic Name:** Synthesis of Nano Materials  
**Workshop Dates:** 17 & 18 February, 2019

This is a confirmation that our college will be the training Centre for technical training as mentioned above and provide the infrastructure support as required for the Session and registration charges are 1150 INR/- student.

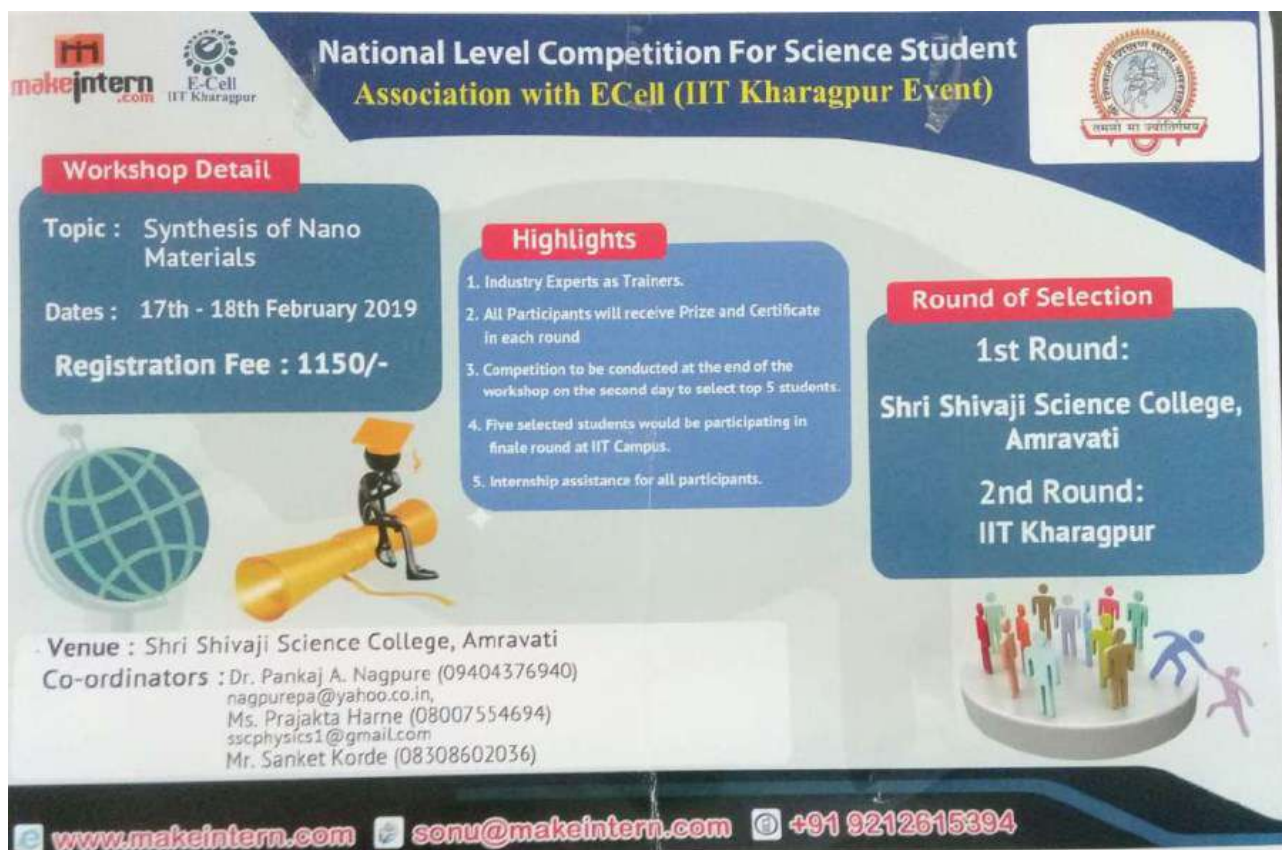
We are appointing one faculty coordinator and two student coordinators to coordinate the entire Program at our campus.

The Names and Contact Numbers of all the coordinators are given below:

Name	Contact Number	Email ID
<b>Dr. Pankaj A. Nagpure</b> Assistant Professor	9404376940	nagpurepa@yahoo.co.in
Ms. Prajakta Harne M.Sc. II	8007554634	prajakta7776@gmail.com
Mr. Sanket Korde M.Sc. I	8308602036	sanketkorde1997@gmail.com



  
**Principal**  
 Shri Shivaji Science College,  
 AMRAVATI,  
 Amravati



**makeintern.com** E-Cell IIT Kharagpur

## National Level Competition For Science Student Association with ECell (IIT Kharagpur Event)

**Workshop Detail**

Topic : Synthesis of Nano Materials

Dates : 17th - 18th February 2019

Registration Fee : 1150/-

**Highlights**

1. Industry Experts as Trainers.
2. All Participants will receive Prize and Certificate in each round
3. Competition to be conducted at the end of the workshop on the second day to select top 5 students.
4. Five selected students would be participating in finale round at IIT Campus.
5. Internship assistance for all participants.

**Round of Selection**

1st Round:  
Shri Shivaji Science College, Amravati

2nd Round:  
IIT Kharagpur

Venue : Shri Shivaji Science College, Amravati

Co-ordinators : Dr. Pankaj A. Nagpure (09404376940)  
nagpurepa@yahoo.co.in,  
Ms. Prajakta Harne (08007554694)  
sscphysics1@gmail.com  
Mr. Sanket Korde (08308602036)

[www.makeintern.com](http://www.makeintern.com) [sonu@makeintern.com](mailto:sonu@makeintern.com) +91 9212615394





## Use of Amrita Virtual Laboratory for UG and PG Physics Practical



SHRI SHIVAJI EDUCATION SOCIET, AMRAVATI'S

**SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI**

**Department of Physics**

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Our institute " **Shri Shivaji Science College, Amravati**" has been selected for Virtua Lab nodal centre program (Nodal coordinators are **Dr. Pankaj A. Nagpure** and **Dr. Waman S. Barde**).

The Institute name is displayed on the Amrita virtual lab website as well as the main website,

**The link for Amrita University Nodal Centre List is -**

**<https://vlab.amrita.edu/?pg=topMenu&id=46>**

**Other documents of collaboration**

10/7/2020

Yahoo Mail - Virtual Lab nodal center program

## Virtual Lab nodal center program

From: Virtual Labs (virtual\_labs@am.amrita.edu)

To: panagpure@shivajiscamt.org; nagpurepa@yahoo.co.in; wsbarde@shivajiscamt.org;  
wamanbarde81@gmail.com

Date: Monday, 13 January, 2020, 03:15 pm IST

Dear Sir/Madam,

Greetings from Amrita Virtual Labs!

This is to inform you that your institute " **Shri Shivaji Science College, Amravati**" has been selected for Virtua Lab nodal centre program (Nodal coordinators are **Dr. Pankaj A. Nagpure** and **Dr. Waman S. Barde**). Institute name will be displayed on the [Amrita virtual lab website](#) as well as the [main website](#), upon using the virtual labs. You can submit the list of students/faculty member in the prescribed format ([click here](#)) for getting unique login IDs for accessing virtual labs.

Click [here](#) to know about the virtual lab nodal center program.

**Workshop and hands-on training program:** As part of virtual lab outreach activities, Amrita virtual lab team conducting hands-on training to new users free of cost.

Here are the procedures for conducting a workshop.

- A nodal centre has to organise the Worksop at their institute.
- The number of participants must be above 50 (including faculty members and students).

Facilitating condition

- Computer lab facility with an internet connection should be available for the hands-on session (each participant can access individual computer).
- Projector/screen, mike and speakers – For the presentation and demonstration of the virtual lab.

Note: TA, local transportations and accommodation have to provide for the VALUE team.

Feel free to contact us for any queries.

Thanks & Regards

**VALUE Team**

Virtual Amrita Laboratories Universalizing Education  
Amrita Vishwa Vidyapeetham

 /AmritaVirtualLabs

 /amritavirtuallabs

 /amritavlab

 /AmritaVLabs

<http://vlab.amrita.edu/>  
0476-280-4528, 09446007135

**VIRTUAL LABS NODAL CENTER PROGRAM**  
**AMRITA VISHWA VIDYAPEETHAM**  
**An initiative of NME-ICT, MHRD**  
**FORM FOR EXPRESSION OF INTEREST**

1. Name of Institution: Shri Shivaji Science College, Amravati
2. Address: Shivaji Nagar, Morshi Road, Amravati – 444603 (Maharashtra)
3. Affiliated to: Sant Gadge Baba Amravati University, Amravati  
(Maharashtra)
4. UGC approval: 2(f), Date: 01/ 04/ 1969  
12 (B), Date: 01/ 04/ 1969
5. Branch of Science Student Population
  - a) B.Sc. Physics: 300+
  - b) M.Sc. Physics: 30+
6. Name of the Proposed Nodal Coordinator: Dr. Pankaj A. Nagpure  
Department: Department of Physics  
Area of Interest: Optics, Electricity and Magnetism, Solid State Physics  
Address: Department of Physics, Shri Shivaji Science College, Amravati  
Contact Details: Mobile Number: +919404376940  
E-mail: [nagpurepa@yahoo.co.in](mailto:nagpurepa@yahoo.co.in); [panagpure@shivajiscamt.org](mailto:panagpure@shivajiscamt.org)
7. Name of the Second Nodal Coordinator: Dr. Waman S. Barde  
Department: Department of Physics  
Area of Interest: Optics, Electricity and Magnetism, Solid State Physics  
Address : Department of Physics, Shri Shivaji Science College, Amravati



Contact Details: Mobile Number: +919403054350

E-mail: [wamanbarde81@gmail.com](mailto:wamanbarde81@gmail.com); [wsbarde@shivaliscamt.org](mailto:wsbarde@shivaliscamt.org)

8. Name of the Principal: Dr. Vijay G. Thakare

9. Certified that:

- a. The institute is recognized by UGC.
- b. We have the necessary infrastructure (dedicated time on 5-10 personal computers with a broadband internet connection) for implementation of Virtual Labs.
- c. Students will not be charged an extra fee to use the Virtual Lab facility.
- d. Strict adherence to standard laid down laboratory procedures will be followed.
- e. A Technical Evaluation team may visit our institution on or after (date) for feasibility studies. 01 August, 2019

Date: 14/08/2019



Principal  
Shri Shivaji Science College,  
AMRAVATI.  
Amravati

## Distribution of students using virtual labs

	Column 1	Column 2	Column 3	Column 4
Sr. N.	Experiments selected from amrita.vlab.co.in	Course, Batch and Year of students using experiments	No of students using experiments	Frequency of usage per week
1	a. Mechanics Virtual Lab (Pilot) b. Advanced Mechanics Virtual Lab c. Electric Circuits Virtual Lab (Pilot)	B.Sc. Semester I and Semester II	100	1 hours per week
2	a. Electricity & Magnetism Virtual Lab b. Optics Virtual Lab c. Heat & Thermodynamics Virtual Lab	B.Sc. Semester III and Semester IV	100	1 hours per week
3	a. Laser Optics Virtual Lab b. Solid State Physics Virtual Lab c. Modern Physics Virtual Lab d. Harmonic Motion and Waves Virtual Lab	B.Sc. Semester V and Semester VI	100	1 hours per week
4	All Physical Sciences Virtual Labs	M.Sc. Semester I, Semester II and Semester III	30	1 hours per week

## I<sup>st</sup> Semester plan for implementing virtual labs

- Start date of semester in 2019: July 01, 2019
- End date of semester in 2019: Oct 15, 2019
- Month of semester exam in 2019: October
- Start date of virtual lab usage by students in 2019 :  
July 20, 2019
- No of computers dedicated for virtual labs: 10 (TEN)
- Proposed date of virtual lab exam for students:  
Sept 30, 2019
- Percentage of internal marks based on virtual lab simulator:  
20 % of practical marks
- Frequency of usage of virtual : 1 hour /per week

## III<sup>rd</sup> Semester plan for implementing virtual labs

- Start date of semester in 2019: July 01, 2019
- End date of semester in 2019: Oct 15, 2019
- Month of semester exam in 2019: October
- Start date of virtual lab usage by students in 2019 :  
July 20, 2019
- No of computers dedicated for virtual labs: 10 (TEN)
- Proposed date of virtual lab exam for students:  
Sept 30, 2019
- Percentage of internal marks based on virtual lab simulator:  
20 % of practical marks
- Frequency of usage of virtual : 1 hour /per week



## V<sup>th</sup> Semester plan for implementing virtual labs

- Start date of semester in 2019: July 01, 2019
- End date of semester in 2019: Oct15, 2019
- Month of semester exam in 2019: October
- Start date of virtual lab usage by students in 2019 :  
July 20, 2019
- No of computers dedicated for virtual labs: 10 (TEN)
- Proposed date of virtual lab exam for students:  
Sept 30, 2019
- Percentage of internal marks based on virtual lab simulator:  
20 % of practical marks
- Frequency of usage of virtual : 1 hour /per week

## II<sup>nd</sup> Semester plan for implementing virtual labs

- Start date of semester in 2019: Dec 01, 2019
- End date of semester in 2019: April 15, 2019
- Month of semester exam in 2019: April
- Start date of virtual lab usage by students in 2019 : Dec 20, 2019
- No of computers dedicated for virtual labs: 10 (TEN)
- Proposed date of virtual lab exam for students: April 10, 2019
- Percentage of internal marks based on virtual lab simulator: 20 % of practical marks
- Frequency of usage of virtual : 1 hour /per week

## IV<sup>th</sup> Semester plan for implementing virtual labs

- Start date of semester in 2019: Dec 01, 2019
- End date of semester in 2019: April 15, 2019
- Month of semester exam in 2019: April
- Start date of virtual lab usage by students in 2019 :  
Dec 20, 2019
- No of computers dedicated for virtual labs: 10 (TEN)
- Proposed date of virtual lab exam for students:  
April 10, 2019
- Percentage of internal marks based on virtual lab simulator:  
20 % of practical marks
- Frequency of usage of virtual : 1 hour /per week

## VI<sup>th</sup> Semester plan for implementing virtual labs

- Start date of semester in 2019: Dec 01, 2019
- End date of semester in 2019: April 15, 2019
- Month of semester exam in 2019: April
- Start date of virtual lab usage by students in 2019 : Dec 20, 2019
- No of computers dedicated for virtual labs: 10 (TEN)
- Proposed date of virtual lab exam for students: April 10, 2019
- Percentage of internal marks based on virtual lab simulator: 20 % of practical marks
- Frequency of usage of virtual : 1 hour /per week



## Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2020 - 2021

### Sepak Takarrow Coaching Camp and Tournament

3 to 13 -01-2020

Physical Education and Sports Department Shri Shivaji Science College as well as District Sapak Takra Sanghatana Amravati jointly organized Sapak Takra training camp on May 5, 2009 to May 16, 2019. The training camp was organized in the college jointly with the main objective of understanding the rules of the game as well as participating in various sports competitions at the state and national level. The training camp was also provided to the players of the association by the best sports college. In order to achieve success, the training camp was organized by the physical education and sports department of the college under the guidance of a good coach. The training camps were attended by players of different levels and they were trained in the rules and skills. As the rules of the new game like Sapak Takra have not yet reached the students, it was to allay their fears about the game and prepare them for the competition as well as to help the newly formed organizations to help the quality players by the college.



#### LIST OF PARTICIPANTS

- |                                 |                                |
|---------------------------------|--------------------------------|
| 1. GAURAV DIPAK TEKARWADE       | 10. SANKET ARVIND BADWAIK,     |
| 2. VIVEK KIRIT ROY,             | 11. AJINKYA PRATAP RAUT,       |
| 3. NIKHIL GANESHRAO YENDE       | 12. SHUBHAM RAJENDRA BHELAU,   |
| 4. RUSHIKESH RAMESHRAO GAWANDE, | 13. RUSHIKESH SHYAMRAO MUSALE, |
| 5. ROHIT KAILASH RATHOD,        | 14. SAMBHAJI SUNIL JAWADE,     |
| 6. YASH SANJAY SATOTE,          | 15. AMAN KUMAR CHAUHAN,        |
| 7. ABHISHEK DIPAK GUDADHE,      | 16. SANDEEP SATENDRA YADAU     |
| 8. YASH HARISH RAGHUVANSH,      |                                |
| 9. ABHISHEK JAYHARI GAWALI,     |                                |

## Research Support for Sample Analysis for Brijlal Biyani Science College

To,  
The Head,  
Department of chemistry,  
Shri Shivaji science college, Amravati.

Date :- 4/03/2023

**Subject :-** Regarding analysis of samples for FTIR.

**Applicant Name :-** Vaidehi K. Barabde (M.Sc.II Sem-IV)

Brijlal Biyani science college, Amravati.

Under the guidance of Dr.S.N.Gupta mam, Associate Professor.

Respected sir,

For the completion of my M.sc.II project, we have synthesized some compound which required further characterization.

Therefore, I request you to kindly allow me to submit my samples in our institute for the following characterization.

Sr.no.	UV	FTIR
1. VB-1	/	✓
2. VB-2		✓
3. VB-3		✓
4. VB-4		✓
5. VB-5		✓
6. VB-6		✓

*S.N.Gupta*  
Head of the department of Chemistry,  
Brijlal Biyani Science College  
Amravati.

*Forwarded*  
*V.K.Barabde*

Your faithfully

*Vaidehi K. Barabde*  
V.K.Barabde

(M.Sc.II Sem IV)

Date 02/03/2023

To,  
The Head,  
Department of chemistry,  
Shri Shivaji science college, Amravati.

Subject :- Regarding analysis of samples for UV-Vis, FTIR etc

Applicant Name :- V.S.Fate (M.Sc.II Sem-IV)

Brijlal Biyani science college, Amravati.

Under the guidance of Prof. P.B.Baghuwanshi.

Respected sir,

For the completion of my M.Sc.II project, we have synthesized some compound which required further characterization.

Therefore, I request you to kindly allow me to submit my samples in our institute for the following characterization.

Sr.no.	UV	FTIR
1. B2	✓	✓
2. C1	✓	✓

forwarded  
by  
of the department of Chemistry,  
Brijlal Biyani Science College  
Amravati.

Your faithfully

*V.S.Fate*

V.S.Fate

(M.Sc.II Sem IV)

## Collaborative activity with Smt. Narsamma Arts, Commerce and Science College, Kiran Nagar, Amravati.



Smt. Narsamma Hridaya Shaikshani Trust's  
**SMT. NARSAMMA ARTS, COMMERCE & SCIENCE COLLEGE**  
 Kiran Nagar, (Narsamma Campus), Amravati. Ph. 0721-2540793  
 www.narsammaacsc.org / email - acsm162@sgbau.ac.in  
 (Junior, Senior, Post Graduate & Research)



Principal : Dr. Rajesh S. Chandanpat  
 Mo. 9423422343

Ref. :

Date : 15/12/2019

**LETTER OF COLLABORATION**  
**BETWEEN**  
**SMT. NARSAMMA ARTS, COMMERCE AND**  
**SCIENCE COLLEGE, KIRAN NAGAR AMRAVATI**  
**AND**  
**SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI**

In line with the development of friendly cooperation in developing programmes of Academic and Scholarly exchanges and for the purpose of establishing long term mutual beneficial association. Smt. Narsamma Arts, Commerce and Science College, Kiran Nagar, Amravati and Shri Shivaji Science College, Amravati joins in the following letter of collaboration. Both parties agree to exercise their best efforts to develop the following forms of cooperation:


1. Promote mutual understanding and academic collaboration.
2. Establish ties of friendship and cooperation in academic and research activities.
3. Exchange of Theoretical and practical guidance of various instruments of Instrumentation Cell to the UG and PG students.
4. Collaborative work of placement drive for the PG students.





5. To arrange guest lecture of the faculties for the PG and UG students through exchange programme.
6. Organizing the Training programmes to develop skilled manpower, course curriculum review etc.


Both Smt. Narasamma Arts, Commerce and Science College, Kiran Nagar, Amravati and Shri Shivaji Science College, Amravati are committed to working together to develop specific agreement on the points above. This agreement will provide logistical and academic details appropriate to the successful operation of the programme. This agreement will fulfill the spirit and purpose of this general letter of intent


  
 (डॉ. वि. गो. वडकरे)  
**Principal,**  
 Shri Shivaji Science College,  
 Amravati

  
**Principal**  
 Smt Narasamma Art, Commerce  
 & science College, Amravati



  
**Dr Shrikant A. Wadhwal**  
 Associate Professor,  
 Department of Chemistry  
 Shri Shivaji Science College,  
 Amravati

  
**Prof. Dr. U.S. Khandekar**  
 Co-ordinator,  
 Central Instrumentation Cell  
 Smt Narasamma ACS College  
 Amravati  
 Coordinator  
 Central Instrumentation Cell  
 Arts, Commerce & Science College,  
 Kiran Nagar, Amravati.

  
**Prof. Dr. G.N. Chaudhari**  
 Head,  
 Department of Chemistry,  
 Shri Shivaji Science College,  
 Amravati  
 Dr. G. N. Chaudhari  
 Head  
 Dept. of Chemistry  
 Shri Shivaji Science College,  
 Amravati-431 605 (M.S.)

Shri Shivaji Education Society, Amravati's  
**Shri Shivaji Science College, Amravati**  
Accredited by NAAC with 'A' Grade  
Identified as UGC-CPE, DST-FIST & SGBAU- Lead College  
Shivaji Nagar, Amravati, MS - 444603



**Five Days Course on Instrumental Techniques and Their Practical Applications for Students**

Duration : 20-24 December, 2019

Organized by -  
Department of Chemistry

Course Contents -

- Theoretical and Practical knowledge on HPLC and GC.
- Its Maintenance, Trouble shooting, analytical method development and validation techniques.
- Instrumentation, calibration and their applications in Industries.
- Theoretical and Practical knowledge of IR, XRD, UV Vis spectrophotometer.

Course Highlights -

- Professional Exposure.
- Job Opportunities in Different Industries on the Basis of Instrumentation Techniques.

Participation is open to Students and Researchers

- Teaching Plan -

**Friday, 20.12.2019**

11.00 - 12.00 p.m. Theoretical session of HPLC  
12.30 - 01.00 p.m. Tea Break  
01.00 - 05.00 p.m. Practical of HPLC

**Saturday, 21.12.2019**

11.00 - 12.00 p.m. Theoretical session of Gas Chromatography  
12.30 - 01.00 p.m. Tea Break  
01.00 - 05.00 p.m. Practical of Gas Chromatography

**Sunday, 22.12.2019**

11.00 - 12.00 p.m. Theoretical session of Trouble Shooting, Calibration & Their Application  
12.30 - 01.00 p.m. Tea Break  
01.00 - 05.00 p.m. Practical of Trouble Shooting, Calibration

**Monday, 23.12.2019**

11.00 - 12.00 p.m. Theoretical session of Infra-Red, UV-Visible Spectroscopy  
12.30 - 01.00 p.m. Tea Break  
01.00 - 05.00 p.m. Practical of Infra-Red, UV-Visible

**Tuesday, 24.12.2019**

11.00 - 02.00 p.m. Theoretical & Practical session of XRD  
02.00 - 03.00 p.m. Tea Break  
03.00 - 05.00 p.m. Examination

- Course to be Conducted by -  
**Mr. Amol Gawande**  
PEAKS Analytical Research and Training Centre, Nagpur

Dr. Srikant A. Wadhwa  
Course Coordinator

Dr. V. G. Thakare  
Principal

### Report of Collaboration

1. Name of the agency which collaboration has signed: SMT. NARASAMMA ARTS, COMMERCE AND SCIENCE COLLEGE, AMRAVATI.
2. Activity Title: **Five Day Training Course on “Instrumental Techniques and their Practical Applications for Students”**
3. Date of Activity : 20/12/2019 to 24/12/2019
4. No of Beneficiaries : 33 students
5. Report

**Five Day Training Course on “Instrumental Techniques and their Practical Applications for Students”**

**Organized by the Department of Chemistry**

The Department of Chemistry has organized Five Day Training Course on “Instrumental Techniques and their Practical Applications for Students” from 20/12/2019 to 24/12/2019. Dr Shrikant A. Wadhal, Associate Professor, Department of Chemistry took initiative as a course coordinator to effectively carry out the sessions of this course. In this course total 33 students from different colleges participated for five days. Mr. Amol Gawande from Peaks Analytical and Research Centre, Nagpur provided the students with hands on training regarding some latest instruments like HPLC, Gas Chromatography, IR, FTIR, UV- VIS used in laboratories. This course proved to be very useful for students to get employment in various industries and Chemical laboratories and also to start their own enterprise. This certificate course definitely enhanced the student’s skill in instrumental techniques in chemistry. This course was successfully organized by the Department of Chemistry.

The course was inaugurated by Prof. G. N. Chaudhari, Head, Department of Chemistry the Chief Guest of the function. Mr. Amol Gawande, Scientist, Peaks Analytical and Research Centre, Nagpur, was guest of honor. All faculty members and participants were present in the inaugural function. Prof. G. N. Chaudhari motivated the participants. Mr. Amol Gawande discussed about his seventeen years working experience in various Industries.

Some of the faculty members also participated in this Five Day Training Course on “Instrumental Techniques and their Practical Applications”





**1<sup>st</sup> day of Training Programme (20/12/2019)**

On 20<sup>th</sup> December 2019 Mr. Amol Gawande, Scientist, Peaks Analytical and Research Centre, Nagpur delivered Keynote speech on “Industrial Scope, Applications & Opportunities for Chemistry”. He delivered lecture “Instrumentation & Theory of HPLC” and then he provided hands on training of HPLC to all the participants in Instrumentation laboratory.



He provided information regarding following good operating practices

- Isocratic HPLC, Gradient HPLC, Chromatographic conditions, Industries work based on Chemistry.
- Reverse phase HPLC, Normal Phase HPLC,
- In Instrumental training of HPLC Mr. Amol Gawande provided
- Training regarding Column(stationary phase) and liquid (mobile phase).
- How to inject dissolved sample into the flow path of the mobile phase.
- How to detect analytes bands, to quantitate peaks generated.
- All these points were covered by providing individual sample to each participants and performing their hands on training.

**2<sup>nd</sup> Day of Training Programme (21/12/2019)**

On 21<sup>st</sup> December 2019, Mr. Amol Gawande had delivered lecture on Gas Chromatography Theory and Instrumentation. He had provided hands on training on Gas Chromatography. He had given the training of following points of G C instrumentation.

1. Stationary Phase of Gas Chromatography. Packed Column, Capillary Column of G C instrumentation.
2. Gas Chromatography method parameters, Calibration of G C, Column oven, Injector Reproducibility, Detector linearity.
3. Demonstration of G C of various samples along with their standard values.
4. Performance of individual G C practical of each participants to run various samples through G C.



**3<sup>rd</sup> day of Training Programme (22/12/2019)**

On 3<sup>rd</sup> day of Training programme Mr Amol Gawande had given hands on training to each participants on

1. Trouble shooting.
2. Calibration HPLC instrument.

He also emphasized on the importance of HPLC in the research of Chemistry, trouble shooting, calibration of instruments through theory as well as practical.







**4<sup>th</sup> day of Training Programme (23/12/2019)**

On 4<sup>th</sup> day of Training programme Mr Amol Gawande had given hands on training to each participants about IR, FTIR instrumentation. Participants had carried out the IR practical training of samples of research students.

1. Preparation of sample KBr pallet.
2. Performance of individual IR practical of each participants of various samples through IR.
3. Recording of IR spectra with interpretation of IR spectrum.



**5<sup>th</sup> day of Training Programme (24/12/2019)**

On 5<sup>th</sup> day of Training programme Mr Amol Gawande had given hands on training to each participants about UV –Visible and XRD instrumentation. Participants had carried out the practical training of samples for this instrumentation. In the final session examination was conducted on this Instrumentation Course.

1. UV-Visible practical performance of various samples.
2. XRD Practical demonstration and performance of Practical training to each participant.
3. Examination of thirty questions conducted on this practical instrumentation. All the participants got Grade A, B, C on the basis of mark scored in the examination. ( A grade = more than 85%, B grade = more than 75%, C grade = more than 60%)



## Valedictory function of training programme

The valedictory function was held on 24/12/2019 at 6 p.m.. The function was chaired by Dr H. S. Lunge, Co-ordinator, NAAC, Department of Statistics. Dr G. N. Chaudhari was the President of programme. Participants gave their feedback about the programme. The programme was concluded with the distribution of certificates.



Certificate distribution





**Group Photo of Five Day Training Course on “Instrumental Techniques and their Practical Applications for Students”  
Organized by the Department of Chemistry**





**Shri Shivaji Science College, Amravati**  
**Five Day Course on “ Instrumental Techniques and their Practical Applications”**  
**Organized by Department of Chemistry from 20-24 December 2019**

**List of Participants**

S. No.	Name	Class	College
1	Mr Yogesh D. Ghatole	M.Sc. II	Shri Shivaji Science College, Amt
2	Mr. Aditya K. Brahmanekar	M.Sc. II	Shri Shivaji Science College, Amt
3	Ms. Swati R. Jaiswal	M.Sc. II	Shri Shivaji Science College, Amt
4	Ms. Shivani D. Deshmukh	M.Sc. II	Shri Shivaji Science College, Amt
5	Ms. Pragati G. Isod	M.Sc. II	Shri Shivaji Science College, Amt
6	Ms. Komal P. Joshi	M.Sc. II	Shri Shivaji Science College, Amt
7	Ms Pradnya R. Mehare	M.Sc. II	Shri Shivaji Science College, Amt
8	Mr Piyush C. Sawarkar	M.Sc. I	Mahatma Fule Mahavidyalaya Varud
9	Mr. Yogesh S. Kukade	M.Sc. I	Mahatma Fule Mahavidyalaya Varud
10	Mr. Rajkumar B. Dhote	M.Sc. I	Mahatma Fule Mahavidyalaya Varud
11	Ms. Rushali M. Muratkar	M.Sc. II	Shri Shivaji Science College, Amt
12	Mr Samir C. Pathan	M.Sc. II	Shri Shivaji Science College, Amt
13	Ms. Mariya Sadaf M. Ilyas	M.Sc. II	Shri Shivaji Science College, Amt
14	Ms. Vaishnavi G. Rase	M.Sc. II	Shri Shivaji Science College, Amt
15	Ms. Shivani D. Mondhe	M.Sc. II	Shri Shivaji Science College, Amt
16	Ms. Maseera Anam Naqvi	M.Sc. II	Shri Shivaji Science College, Amt
17	Ms. Sneha N. Raut	M.Sc. II	Shri Shivaji Science College, Amt
18	Ms. Raksha V. Mishra	M.Sc. II	Shri Shivaji Science College, Amt
19	Ms. Nivedita S. Marape	M.Sc. II	Shri Shivaji Science College, Amt

	Marape		
20	Ms Krunal R. Chunade	M.Sc. II	Shri Shivaji Science College, Amt
21	Ms. Nikita A. Tekade	M.Sc. II	Shri Shivaji Science College, Amt
22	Ms. Snehal G. Watane	M.Sc. II	Shri Shivaji Science College, Amt
23	Mr. Aniruddha S. Etande	M.Sc. II	Shri Shivaji Science College, Amt
24	Ms Samiksha Y. Armal	M.Sc. II	Shri Shivaji Science College, Amt
25	Ms Pallavi S. Lingot	M.Sc. U	Shri Shivaji Science College, Amt
26	Ms Bhagyashri R. Mankar	M.Sc. II	Shri Shivaji Science College, Amt
27	Ms Simran Pusatkar	M.Sc. U	S.G.B. Amravati University Amt
28	Ms. Gargi G. Chaudhari	M.Sc. II	S.G.B. Amravati University Amt
29	Mr Ajinkya S. Sonone	M.Sc. II	Shri Shivaji Science College, Amt
30	Dr Varsha S. Zade	M.Sc. II	Shri Shivaji Science College, Amt
31	Ms Kanchan S. Mawande	M.Sc. II	Shri Shivaji Science College, Amt
32	Ms Pallavi N. Dabhade	M.Sc. II	Shri Shivaji Science College, Amt
33	Mr. Chetan N. Surjuse	M.Sc. U	Mahatma Fule Mahavidyalaya Varud



Dr. Shrikant A. Wadhal  
Course Coordinator



Dr. G. N. Chaudhari  
Head of Department

G. N. Chaudhari  
Professor & Head  
Dept. of Chemistry  
Shri Shivaji Science College,  
Amravati-431 005 (M.S.)

## Internship Program with ArrayGen Technologies Pvt. Ltd., Pune for M.Sc. Bioinformatics Students



### ArrayGen Technologies Pvt. Ltd.

Godai Niwas 19, Shivaji Chowk, Mokate Chawl, Kothrud Gaothan, Near Shivaji Statue, Kothrud, Pune – 411038, Maharashtra (India)

Email: [info@arraygen.com](mailto:info@arraygen.com)

Phone: +91 20 65228007

Mobile: +91 9673625446

Website: [www.arraygen.com](http://www.arraygen.com)

CIN No.: U74900PN2015PTC157410

## Certificate

This is to certify that **Mr. Aniket Ganesh Nage & Miss. Pranali Nandkishor Kale** has completed the project – “**Targeted exom sequencing panel as a powerful tool to identify the causative mutation in patient suspected of Amyotrophic Lateral Sclerosis (ALS)**”. Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.



*Place: Pune, India*

*Date: 16<sup>th</sup> January, 2020*

*Mr. Rajesh Kumar Mahato*

*( Founder & CEO )*

*ArrayGen Technologies Pvt. Ltd.*

P. G. DEPARTMENT OF BIOINFORMATICS

**ArrayGen Technologies Pvt. Ltd.**

Godai Niwas 19, Shivaji Chowk, Mokate  
Chawl, Kothrud Gaothan, Near Shivaji  
Statue, Kothrud, Pune – 411038,  
Maharashtra (India)

**Email:** [info@arraygen.com](mailto:info@arraygen.com)

**Phone:** +91 20 65228007

**Mobile:** +91 9673625446

**Website:** [www.arraygen.com](http://www.arraygen.com)

## Certificate

*This is to certify that Miss. Gayatri Suresh Rao Bhidkar from Shri. Shivaji Science College, Amravati has successfully completed **one month (4 weeks)** internship on “**Untapping Diversity through Metagenomics Using Public NGS Data**” at ArrayGen Technologies Pvt. Ltd. from **16<sup>th</sup> December 2019 to 16<sup>th</sup> January 2020**.*



*Rajesh*

*Place: Pune, India*

Mr. Rajesh Kumar Mahato

*Date: 16<sup>th</sup> January, 2020*

(Founder & CEO)

ArrayGen Technologies Pvt Ltd

Shri. Shivaji Science College, Amravati

Page 3



**ArrayGen Technologies Pvt. Ltd.**

Godai Niwas 19, Shivaji Chowk, Mokate Chawl, Kothrud Gaothan, Near Shivaji Statue, Kothrud, Pune – 411038, Maharashtra (India)

**Email:** [info@arraygen.com](mailto:info@arraygen.com)

**Phone:** +91 20 65228007

**Mobile:** +91 9673625446

## *Certificate*

This is to certify that **Miss. Ankita Deshmukh** has completed the project – “**Transcriptome Profiling and Differentially Gene Expression of B-cell in disease sample using Microarray Technique.**” Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.



*Place: Pune, India*

*Date: 9<sup>th</sup> March, 2020*

*Mr. Rajesh Kumar Mahato*

*(Founder & CEO)*

*ArrayGen Technologies Pvt.Ltd.*











**ArrayGen Technologies Pvt. Ltd.**

Godai Niwas 19, Shivaji Chowk, Mokate Chawl, Kothrud Gaothan,  
Near Shivaji Statue, Kothrud, Pune – 411038, Maharashtra (India)

**Email:** [info@arraygen.com](mailto:info@arraygen.com)

**Phone:** +91 20 65228007

**Mobile:** +91 9673625446

**Website:** [www.arraygen.com](http://www.arraygen.com)

**CIN No.:** U74900PN2015PTC157410

# Certificate

*This is to certify that Ms. Sayali Suresh Jamodkar of Shri Shivaji Science College, Amravati has successfully completed a One month (4 weeks) internship on “Comparative metagenomic analysis of freshwater microbiome using bioinformatics QIIME pipeline” at ArrayGen Technologies Pvt. Ltd. from 16<sup>th</sup> December 2019 to 16<sup>th</sup> January, 2020.*



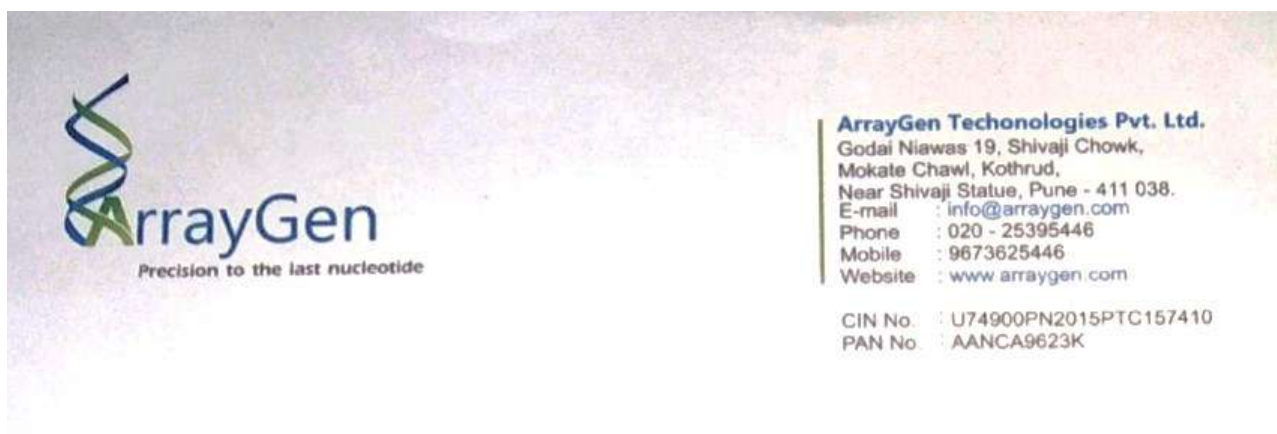
*Place: Pune, India*

*Date: 16<sup>th</sup> January, 2020*

Mr. Rajesh Kumar Mahato

(Founder & CEO)

ArrayGen Technologies Pvt. Ltd.



**CERTIFICATE**

**2019-2020**

This is to certify that **Miss Samidha Vilasrao Bonde** has completed the project – “**In-silico bioinformatic pipeline development for RNA Seq. NGS Data**”. Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.

Signature of Guide



Contact:

Rajesh Kumar Mahato  
(Founder & CEO)  
ArrayGen Technologies Pvt. Ltd.  
Phone: +91-020-25395446

**ArrayGen Technologies Pvt. Ltd.**

Godai Niwas 19, Shivaji Chowk, Mokate Chawl, Kothrud, Gaothan, Near Shivaji Statue, Kothrud, Pune – 411038, Maharashtra (India)

**Email:** [info@arraygen.com](mailto:info@arraygen.com)

**Phone:** +91 20 65228007

**Mobile:** +91 9673625446

**Website:** [www.arraygen.com](http://www.arraygen.com)

**CIN No.:** U74900PN2015PTC157410

## Certificate

This is to certify that **Mr. Swapnil Himmatrao Jondhale** has completed the project – “**In silico Bioinformatics pipeline for Genome wide mutation detection using disease panel of Amyotrophic Lateral Sclerosis.**” Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.



*Place: Pune, India*

*Date: 16<sup>th</sup> January, 2020*

*Mr. Rajesh Kumar Mahato*

*( Founder & CEO )*

*ArrayGen Technologies Pvt. Ltd.*

## **Internship Program with "Arvinda Biosolutions, Hyderabad." for M.Sc. Bioinformatics Students**



Accredited by NAAC with "A" grade (very good) with a CGPA of 3.13

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S**  
**SHRI SHIVAJI SCIENCE COLLEGE**  
*College with Potential for Excellence.*

**Shivaji Nagar, Morshi Road, Amravati - 444 603, M.S.**

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 President : Shri. Harshavardhan Pratapsinh Deshmukh  
 Principal : Dr. V. G. Thakare

E-mail : shivajiscamti.office@gmail.com Website : www.shivajiscamti.org  
 Off. : (0721) 2660855, Res. (0721) 2551400, 2553130, Comp. Dept. (0721) 2551366 Fax : (0721) 2665485

Ref No. SCB/Inf/Intern/2018 Date: 7/10/2018

### LETTER OF COLLABORATION

between

**SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI'S**  
**P.G. DEPARTMENT OF BIOINFORMATICS**

and

**ARAVINDA BIOSOLUTIONS, HYDERABAD - 500044**

This Letter of Collaboration is designed to foster a friendly relationship through mutual cooperation in internship program between **P. G. DEPARTMENT OF BIOINFORMATICS** and **ARAVINDA BIOSOLUTIONS, HYDERABAD**. No financial obligations are assumed under this agreement.


**P.G. DEPARTMENT OF BIOINFORMATICS, SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI, MAHARASHTRA** and **ARAVINDA BIOSOLUTIONS, HYDERABAD** has reached agreement on the following areas of cooperation, subject to mutual consent:

- To run the internship program for M.Sc.-II students
- Project work in the form of dissertations
- Exchange of academic materials and other information
- Special short-term academic programs
- Arrange guest lectures
- Participation in seminars and academic meetings

1

The terms of such mutual assistance and funding for any specific program and activity shall be mutually discussed and agreed upon by both parties prior to the initiation of a particular program. Each institution will designate an individual to coordinate this program and all endeavors that may derive from it.

This Letter of Collaboration shall commence on the date of latest signature and be in effect for five years, at which time it shall be reviewed for possible extension.

  
7/10/2018

**DR. GANESH B. HEDAWOO**  
Co-ordinator  
P.G. Department of ~~Bioinformatics~~  
~~Shri Shivaji Science College~~  
Shri Shivaji Science College, Amravati,  
Maharashtra, India. 444603  
[sscbioinformatics@gmail.com](mailto:sscbioinformatics@gmail.com)  
Date: 7/10/2018



**MR. RAGHU RAJ**  
Director, Aravinda Biosolutions  
#311, Windsor Plaza,  
Shankermutt, Nallakunta,  
Hyderabad - 500044, Telangana, India.  
[aravindabio@gmail.com](mailto:aravindabio@gmail.com)  
Date: 7/10/2018






# ARAVINDA BIOSOLUTIONS

## CERTIFICATE

This is to certify that the project /Dissertation entitled “**NEW ETHAMBUTOL ANALOGUE DESIGN FOR TUBERCULOSIS THROUGH COMPUTATIONAL METHOD**” is a Bonafide work done by **Miss.Monika Murlidhar Mahankar** Student of M.sc-II (P.G.Department of Bioinformatics, Shri Shivaji Science College ,Amravati) in partial fulfilment for Master of science Degree in Bioinformatics and has been carried out under the guidance of **DR. MANOJ KUMAR REDDY** At Aravinda BioSolutions, Hyderabad during the **February-2021 to May- 2021**. This Report or a similar report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

  
(Mr. Raghu raj)  
Director



  
(Dr. MANOJ KUMAR REDDY)  
Project Guide

### Aravinda Biosolutions

(a division of Aravinda Technologies)  
# 311, Windsor Plaza, Nallakunta,  
Hyderabad - 500 044

URL: [http:// www.aravindabio.com](http://www.aravindabio.com), [enquiry@aravindabio.com](mailto:enquiry@aravindabio.com)  
E-mail: [aravindabio@gmail.com](mailto:aravindabio@gmail.com)  
Phone: 091-40-66628773, 9391187818




## ARAVINDA BIOSOLUTIONS PVT., LTD

### CERTIFICATE

2019-2020

This is to certify that **Miss. Komal Prakashrao Kulkarni** has completed the project “**LIGAND BASED DRUG DISCOVERY AND DESIGN FOR PARKINSONS DISEASE.**” For a duration of one month (**14<sup>th</sup> December to 14<sup>th</sup> January 2019**) under my guidance and submitted the project report, laid down by **Sant Gadge Baba Amravati University**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **Master of Science in Bioinformatics.**

  
**Mr. Raghu Raj**  
(Director)



  
**Mr. Manoj Kumar Reddy**  
(Project Supervisor)

**Aravinda Biosolutions Pvt., Ltd**

304,305, Windsor Plaza, Nallakunta,  
Hyderabad 500 044.

URL: <http://www.aravindabio.com>, enquiry@aravindabio.com  
email: aravindabio@yahoo.com, bioprojects\_hyd@yahoo.com  
Phone: 091-40-66628773, 66628774





# ARAVINDA BIOSOLUTIONS PVT., LTD

## CERTIFICATE

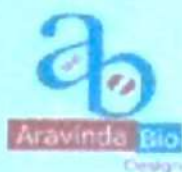
2019-2020

This is to certify that Miss. Mayuri Balasaheb Hole has completed the project “BLOOD CANCER (LEUKEMIA) NEW PENTOSTATIN ANALOGS DESIGN THROUGH BINDING AFFINITY CALCULATIONS” Under my guidance and submitted the project report, laid down by Sant Gadge Baba Amravati University. The material that has been obtained from other source is duly, acknowledged in the dissertation. During December-2019 to January-2020, completed their project. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of Master of Science in Bioinformatics.

  
Mr. Raghu Raj  
(Director)



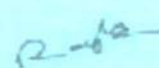
  
Mr. Manoj Kumar Reddy  
(Project Supervisor)

**ARAVINDA BIOSOLUTIONS PVT., LTD**

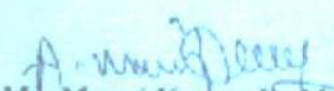
## CERTIFICATE

2019-2020

This is to certify that Miss. **Rajni Ishwar Nanhe** has completed the project **"NEW DRUG DESIGN FOR BREAST CANCER THROUGH BINDING FREE ENERGY CALCULATIONS"** Under my guidance and submitted the project report, laid down by **Sant Gadge Baba Amravati University, Amravati, (Shri. Shivaji Science College, Amravati)**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **Master of Science in Bioinformatics**.

  
**Mr. Raghu Raj**  
(Director)



  
**Mr. Manoj Kumar Reddy**  
(Project Supervisor)

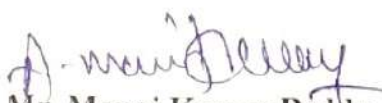
**Aravinda Biosolutions Pvt., Ltd**#304,305, Windsor Plaza, Nallakunta,  
Hyderabad 500 044URL: <http://www.aravindabio.com>, [aravinda@aravindabio.com](mailto:aravinda@aravindabio.com)  
email: [aravindabio@yahoo.com](mailto:aravindabio@yahoo.com), [bioprojects\\_hyd@yahoo.com](mailto:bioprojects_hyd@yahoo.com)  
Phone: (91) 40-65528773, 65628774

**ARAVINDA BIOSOLUTIONS PVT., LTD****CERTIFICATE****2019-2020**

This is to certify that Miss. Rutuja Rajendrarao Ingale has completed the project “NEW DRUG DESIGN FOR BREST CANCER THROUGH BINDING FREE ENERGY CALCULATIONS” for a duration of one month (14<sup>th</sup> December-2019 to 14<sup>th</sup> January-2020) Under my guidance and submitted the project report, laid down by Sant Gadge Baba Amravati University. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of Master of Science in Bioinformatics.

  
Mr. Raghu Raj  
(Director)



  
Mr. Manoj Kumar Reddy  
(Project Supervisor)

**Aravinda Biosolutions Pvt., Ltd**4,305, Windsor Plaza, Nallakunta,  
Telangana 500 044.URL: <http://www.aravindabio.com>, [enquiry@aravindabio.com](mailto:enquiry@aravindabio.com)  
email: [aravindabio@yahoo.com](mailto:aravindabio@yahoo.com), [bioprojects\\_hyd@yahoo.com](mailto:bioprojects_hyd@yahoo.com)





# ARAVINDA BIOSOLUTIONS PVT., LTD


## CERTIFICATE

2019-2020

This is to certify that Miss. Shivani Chandrashekhar Giri has completed the project "BLOOD CANCER (LEUKEMIA) NEW PENTOSTATIN ANALOGS DESIGN THROUGH BINDING AFFINITY CALCULATIONS" Under my guidance and submitted the project report, laid down by Sant Gadge Baba Amravati University. The material that has been obtained from other source is duly, acknowledged in the dissertation. During December-2019 to January-2020, completed their project. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of Master of Science in Bioinformatics.

  
Mr. Raghu Raj  
(Director)



  
Mr. Manoj Kumar Reddy  
(Project Supervisor)

### Aravinda Biosolutions Pvt., Ltd

#304,305, Windsor Plaza, Nallakunta,  
Hyderabad 500 044

URL: <http://www.aravindabio.com>, [enquiry@aravindabio.com](mailto:enquiry@aravindabio.com)  
email: [aravindabio@yahoo.com](mailto:aravindabio@yahoo.com), [bioprojects\\_hyd@yahoo.com](mailto:bioprojects_hyd@yahoo.com)  
Phone: 091-40-66628773, 66628774



## Internship Program with "vLife Technologies, Novalead Pharma Pvt. Ltd. Pune." for M.Sc. Bioinformatics Students



Date: 17<sup>th</sup> January 2020

### CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

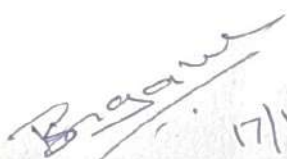
This is to certify that **Ms. Gauri Korade**, had joined us for her internship and successfully completed her project from 16<sup>th</sup> December 2019 to 17<sup>th</sup> January 2020 and successfully presented the same.

The project was undertaken by her in Drug Designing titled "***Finding binding patterns across molecule acting on the various targets of Influenza virus***" under the abled guidance of Dr Kundan Ingale. The project on evaluation fulfills all the stated criteria and the findings are her original work.

During her training duration we found **Ms. Gauri Korade** as a good team player, open to accept challenges and hardworking towards meeting timelines.

**Gauri:**

We thank you for your valuable contribution to the Company and wish you all success in your future endeavors.

  
17/1/2020  
NovaLead Pharma Pvt Ltd.





Date: 17<sup>th</sup> January 2020

## CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

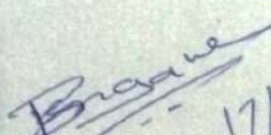

This is to certify that **Ms. Pooja Zagade**, had joined us for her internship and successfully completed her project from 16<sup>th</sup> December 2019 to 17<sup>th</sup> January 2020 and successfully presented the same.

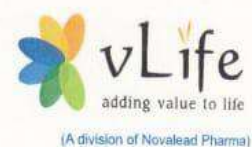
The project was undertaken by her in Drug Designing titled "**Finding binding patterns across molecule acting on the various targets of Influenza virus**" under the abled guidance of Dr Kundan Ingale. The project on evaluation fulfills all the stated criteria and the findings are her original work.

During her training duration we found **Ms. Pooja Zagade** as a good team player, open to accept challenges and hardworking towards meeting timelines.

**Pooja:**

We thank you for your valuable contribution to the Company and wish you all success in your future endeavors.

  
17/01/2020  
  
NovaLead Pharma Pvt Ltd.

Date: 17<sup>th</sup> January 2020**CERTIFICATE**

TO WHOMSOEVER IT MAY CONCERN


This is to certify that **Ms. Pratima Potdukhe**, had joined us for her internship and successfully completed her project from 16<sup>th</sup> December 2019 to 17<sup>th</sup> January 2020 and successfully presented the same.

The project was undertaken by her in Drug Designing titled "**Finding binding patterns across molecule acting on the various targets of Influenza virus**" under the abled guidance of Dr Kundan Ingale. The project on evaluation fulfills all the stated criteria and the findings are her original work.

During her training duration we found **Ms. Pratima Potdukhe** as a good team player, open to accept challenges and hardworking towards meeting timelines.

**Pratima:**

We thank you for your valuable contribution to the Company and wish you all success in your future endeavors.

  
17/01/2020  
NovaLead Pharma Pvt Ltd.

**NovaLead Pharma Pvt. Ltd.**

2<sup>nd</sup>/3<sup>rd</sup> Floor, Plot No-05, Ram Indu Park, Survey No-131/1b/2/11, Baner Road, Pune - 411 045. India (Maharashtra)  
Tel. : + 91 20 6410 0335 E-mail : info@vlifesciences.com Web : www.vlifesciences.com



## Internship Programme M.Sc. Environmental Science students at Geotech GIS Training Institute, Aurangabad Gajanan Maharaj Mandir Road, Opposite CADA office, Aurangabad







**GeoTech**

FLYVIEW GIS TECHNOLOGY PVT.LTD

# GeoTech

- GIS Software
- Watershed Mapping
- Assel Mapping
- QGIS & Web GIS

---

Ref No. 442/2020

Date: 15/01/2020

### INTERNSHIP CERTIFICATE

This is to certify that **Ms. Shravani V. Jaware**, a student of **M. Sc. Environment Science**, **Shri Shivaji Science College, Sant Gadge Baba University, Amravati, Maharashtra**. He/She has successfully completed from **1st December, 2019 to 15th Jan, 2020**. Internship programme at **Geotech GIS Training Institute, Aurangabad**. During the period of his internship programme with us. He/ She was found punctual, hardworking and inquisitive.

We wish him every success in life.





Mr. Aniket R. Borgavkar  
Director  
Geotech GIS Training  
Institute & Consultancy  
Aurangabad

✉ gisaniket489@gmail.com / directorgeotechinstitute@gmail.com  
 🌐 Website:-www.geotechinstitute.com 📞 Mob.No.9096244262.9284471310  
 Address : Plot No.09/10 Vishal Nagar,7 Hill Road,Near Gajanan Mahara] Mandir Road,  
 Opposite CADA Office Aurangabad 431001



FLYVIEW GIS TECHNOLOGY PVT.LTD

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- GIS Software
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- Asset Mapping
- QGIS & Web GIS

## GIS TRAINING INSTITUTE & CONSULTANCY SERVICES

Ref No. 449/2020

Date: 15/01/2020

### INTERNSHIP CERTIFICATE

This is to certify that **Ms. Pooja S Dutonde**, a student of **M. Se. Environment Science**, Shri Shivaji Science College, Sant Gadge Baba University, Amravati, Maharashtra. He/She has successfully completed from **1st December, 2019 to 15th Jan, 2020**. Internship programme at **Geotech GIS Training Institute, Aurangabad**. During the period of his internship programme with us. He/ She was found punctual, hardworking and inquisitive.

We wish him every success in life.



  
 Mr. Aniket R. Bergawkar  
 Director  
 Geotech GIS Training  
 Institute & Consultancy  
 Aurangabad

✉ gisan/ket489@gmail.com / directorgeotechinstitute@gmail.com

🌐 Website:-www.geotechinstitute.com 📞 Mob.No.9096244262,9284471310

Address : Plot No.09/10 Vishal Nagar 7 Hill Road, Near Gajanan Maharaj Mandir Road,  
Opposite CADA Office, Aurangabad 431001



**GeoTech**

FLYVIEW GIS TECHNOLOGY PVT.LTD

# GeoTech

**GIS TRAINING INSTITUTE & CONSULTANCY SERVICES**

- GIS Software
- Watershed Mapping
- Asset Mapping
- QGIS & Web GIS

---

Ref No. 456/2020

Date: 20/01/2020

### INTERNSHIP CERTIFICATE

This is to certify that Ms. Ankit S. Jawanjal, a student of M. Sc. Environment Science, Shri Shivaji Science College, Sant Gadge Baba University, Amravati, Maharashtra. He/She has successfully completed from 1st December, 2019 to 15th Jan, 2020. Internship programme at Geotech GIS Training Institute, Aurangabad. During the period of his internship programme with us. He/She was found punctual, hardworking and inquisitive.

We wish him every success in life.





Mr. Aniket R. Borgawkar  
Director  
Geotech GIS Training  
Institute & Consultancy  
Aurangabad

✉ gisaniket489@gmail.com / directorgeotechinstitute@gmail.com  
 🌐 Website:-www.geotechinstitute.com 📞 Mob.No.9096244262,9284471310

Address : Plot No.09/10 Vishal Nagar,7 Hill Road,Near Gajanan Maharaj Mandir Road,  
Opposite CADA Office,Aurangabad 431001





**GeoTech**

FLYVIEW GIS TECHNOLOGY PVT.LTD

# GeoTech

- GIS Software
- Watershed Mapping
- Asset Mapping
- QGIS & Web GIS

---

Ref No. 446/2020

Date: 15/01/2020

## INTERNSHIP CERTIFICATE

This is to certify that **Ms. Manisha U. Bhaikar**, a student of M. Sc. **Environment Science**, Shri Shivaji Science College, Sant Gadge Baba University, Amravati, Maharashtra. He/She has successfully completed from **1st December, 2019 to 15th Jan, 2020**. Internship programme at **Geotech GIS Training Institute, Aurangabad**. During the period of his internship programme with us. He/ She was found punctual, hardworking and inquisitive.

We wish him every success in life.





Mr. Anil R. Borgawar  
Director  
Geotech GIS Training  
Institute & Consultancy  
Aurangabad

✉ [gisaniket489@gmail.com](mailto:gisaniket489@gmail.com) / [directorgeotechinstitute@gmail.com](mailto:directorgeotechinstitute@gmail.com)  
 🌐 Website: [www.geotechinstitute.com](http://www.geotechinstitute.com) 📞 Mob.No.9096244262,9284471310  
 Address : Plot No.09/10 Vishal Nagar, 7 Hill Road, Near Gajanan Maharaj Mandir Road,  
 Opposite CADA Office, Aurangabad 431001



## Organization of International "Web Conference on Science, Engineering & Technology - 2020" in collaboration with Society for Technologically Advanced Materials of India (STAMI)



Organized by



Associate Partners



Organizing Team

**Prof. R. P. Tandon**  
Patron  
Professor,  
Department of Physics  
and Astrophysics  
University of Delhi, India

**Dr. Kishor Rewatkar**  
Chairperson  
+91 9822426769  
kgrewatkar@gmail.com

**Dr. Debashis Bhowmick**  
Convener  
+91 9823323241  
d@jit.org.in

Conference Link

web: [www.stami.in](http://www.stami.in)

To,  
**Dr. V.G.Thakare**  
Shri.Shivaji Science College, Amravati.

Dear Sir,

Society for Technologically Advanced Material of India (STAMI) was established in 2006 at Nagpur, Maharashtra, India under the leadership of Prof. Ram Pal Tandon. Its members are from various reputed academic institutions of India and abroad. It also has Executive members from various industries. The society was formed with a vision to provide a common platform at international level for exchange of scientific ideas and contributions.

Our activities would facilitate progress of science and technology in India and abroad as well as promote scholarly communications. Conferences in association with various universities are periodically organized at international level.

Till today STAMI have organised various conferences in locations like Delhi, Nagpur, Sri Lanka, Malaysia, Uzbekistan Apart from conferences, some other activities have been undertaken by society such as Guest lectures by the scientists for the students of various colleges, interaction of industrial executives with society, educational visits etc.

In the present scary scenario, threat of COVID-19 is looming large and has affected our life largely. Due to worldwide lock down, this time STAMI is holding an **International Web Conference on "Science, Engineering & Technology (IWCSET-2020)". Encompassing Physical, Chemical, Biological, Material, Engineering Sciences & Technology towards Sustainable Development, During May 15-16, 2020**

#### About IWCSET-2020

The International Web Conference on Science, Engineering & Technology (IWCSET-2020) is in series of interdisciplinary science conferences for advancement of science and technology.

IWCSET-2020 is an initiative towards scientific deliberation amid lockdown, quarantine and social distancing. This conference is being organized with intention to provide a stage to propagate original research of academicians, researchers and students on Science, Engineering & Technology. It would have deliberations in Physical, Chemical, Biological & Engineering Sciences and Technology during May 15-16, 2020. It will certainly abstract out the core themes to curtail down the gap between the research, industry and society to foster more persistent effort towards advancement. Many Speakers of prime scientific repute from National & International community have consented to be a part of this Mega Global Event.

#### Association Request:

To hold such a big event we are looking forward towards reputed organizations like yours, as you value the cause and the purpose of the conference and your inclination towards science & innovation is well known in the region.

Hence, it's a request to you to be a part of this International Mega Event as an ASSOCIATE PARTNER.

**Financial contribution: Rs. 10,000/- only**, (Once you accept this association we will convey you Bank Details of the STAMI for fee transfer)

**Partnering Benefit: Your Organization logo appears in all documents, One/two name appears in Patron list, At least one name as Convener/Organising Secretary/coordinator/Executive member from your organization.**

I am expecting a positive reply from your side.

Thank You,

Dr. Debashis Bhowmick

Created by Universal Document Converter

**REPORT ON**  
**International Web Conference on Science, Engineering and**  
**Technology (IWCSET-2020) HELD ON 15<sup>TH</sup> -16<sup>TH</sup> MAY 2020.**

Society for Technologically Advanced Materials of India (STAMI) has organized an International Web Conference on Science, Engineering and Technology (IWCSET-2020) recently on 15<sup>th</sup> & 16<sup>th</sup> May 2020 in association with **Shri. Shivaji Science College Amravati, Dr. Ambedkar College, Nagpur, Jhulelal Institute of Technology, Nagpur, Shri. Dnyanesh Mahavidyalaya, Nawargaon, (M.S.) Indian, Society for Technical Education (ISTE), Society for Green World and Sustainable Development, Jhansi, J. T. Mahajan College of Engineering, Jalgaon, Indian Association of Physics Teacher, Dr. Rajendra Ghode Institute of Technology & Research, Amravati, AI and Cognitive Science & Learning Academy and Cretile.**

IWCSET-2020 an initiative towards scientific deliberation amid lockdown, quarantine and social distancing. This Web Conference was organized with the intention to provide a platform to propagate original research work of academicians, researchers and students on Science, Engineering & Technology. It encompasses deliberations in Physical, Chemical, Biological & Engineering Sciences and Technology.

The conference has 3476 registered delegates from across the globe, 40 invited speakers and more than 360 oral & poster presentations. The conference had 964 deliberations in Physical Sciences, 623 in Chemical Sciences, 1125 in Biological Sciences and 764 deliberations in Engineering & Technology.

The conference was inaugurated on zoom platform and broadcasted live on YouTube. Dr. K. G. Rewatkar, Chairperson IWCSET2020 delivered the opening remark. He stated that STAMI had organized **15 national and international conferences** in India, **6 off-shore International conferences** and this was the **First Web Conference** and was a huge success from participation and deliberation point of view. The Principals and Management members of various associate colleges presented brief introduction of their college and expressed their pleasure on this association. The foremost amongst them **were Dr. V. G. Thakare, Principal, Shri Shivaji Science College Amravati,** Dr Suresh Bakare, Principal Shri Dyanesh Mahavidyalaya, Nawargaon, Dr. Narendra Bawane, Principal, Jhulelal Institute of Technology, Dr. Pramod Patil,



Principal, Dr. Rajendra Ghode Institute of Technology & Research, Amravati, Dr. R. D. Patil, J T Mahajan College of Engineering, Jalgaon & Dr. H. D. Bhartiya Jhashi.

Dr. Debashish Bhowmick, Convener-IWCSET2020 introduced **Dr. Pratap Desai**, President, Indian Society of Technical Education(ISTE), and the Chief-Guest of inaugural function. He addressed the gathering saying that in this pandemic situation where the whole world is at stand still, it is for Science and Technology to join hands for a sustainable future ahead. He further said that Science & Technology are complimentary to each other and cannot grow in isolation. He emphasized that now-a-days it is the time to revive ancient Indian concept of Vasu dev Kutumbakam, where the whole world is one village without any geographical barrier.

In two days deliberations **four technical sessions** dedicated to each faculty were conducted. Key note address was delivered by **President of STAMI Dr. R. P. Tandon, live from New York, USA.**

**On Day 1, 15<sup>th</sup> May 2020, two parallel sessions on Chemical and Physical sciences were broadcasted from 11:00 am to 3:00 pm.**

**Technical Session-1 dedicated to Chemical Sciences** was coordinated and conducted by Dr Dhanashri Borikar and Mohan Borikar where in invited speakers Prof. Cyril Bressey, France, Dr Vishal Bharti Portugal, Dr Nitin Labhsetwar, Chief Scientist and Head ERM division NEERI, Dr Dinesh Rangappa, Bangalore, Prof S J Dhoble, Dr. Ravin Jugade ,India shared their views in the webinar. More than 900 delegates registered from all over the country in chemistry and physics.

**Technical Session-1I, dedicated to Physical sciences** was conducted by Dr K G Rewatkar, Dr Ajay Lad and Dr N S Meshram. Invited speakers Prof Jinhua Hao, Hongkong, Dr Nanda Gunawardhana, Dr. Sujit Christy, Sri Lanka, Dr Vishal Sharma USA, prof R Jotania and Prof Pius Augustin,India delivered lectures in the Web Conference.

**On Day 2, 16<sup>th</sup> May 2020, two parallel technical sessions on Biological and Engineering sciences were broadcasted from 11: 00 am. to 4: 00 pm.**

**Technical session I- dedicated to Biological science** was conducted by Dr Suresh DVNS and Dr. Mrs. Vasanti K Rewatkar Organizing Secretary, IWCSET-2020 . Invited speakers were Dr.

Nishikant Wase, USA, Dr. Raymond Andrew, Singapore, Dr. Rajkumar Gupta, Miss. Megha Agarwal, Prof. Mukund Sherkar from India delivered Invited talk.

**Technical Session-II, dedicated to Engineering and technology**, Dr K G Rewatkar and Dr D Bhoumik conducted the Engineering and technology session. Invited speakers Prof Ajit Khosla, Japan, Prof K K. Bamzi, Dr. Ajit Mahapatra, Dr. Sanjeev Sharma Engg.,Parag Gulhane, Banglore delivered their lectures.

During all the technical sessions after the invited talks, **pre recorded oral and poster presentations** scrutinised by the jury were broadcasted on YouTube. Overwhelming repose was received by the participants from India and abroad for the Web Conference. All the technical support was provided by Dr. Indrani Das Sharma and Dr. Nishit Jain. Dr. Lalit Ujeda, and Mr. Hemant Meshram , Assistant Professors, Shri. Dnyanesh Mahavidyalaya, Nawargaon worked as Executive Members in this IWCSET2020.

**In the valedictory program of IWCSET-2020**, at 4:30 pm, Chairman Dr K G Rewatkar and Convenor Dr D Bhowmick extended their heartfelt gratitude towards all the associate institutes and the invited speakers, coordinators of science and Engineering faculties and the delegate participants from all over the country.





## Clue4 Evidence Forensic Investigations Private Limited (Clue4 Evidence Forensic Lab)



Registration No.: BGR-4-00123-2019-20

**CLUE4 EVIDENCE**  
**FOUNDATION**  
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### MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

MANAGING TRUSTEE, CLUE4 EVIDENCE FOUNDATION(R), S-522,  
 5<sup>TH</sup> FLOOR, MANIPAL CENTRE, DICKENSON ROAD, BENGALURU-560042  
 (KARNATAKA - INDIA)

-AND-

SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI

In line with the development of friendly cooperation in accordance with our mutual interest in developing programmes of Academic and Scholarly exchanges and for the purpose of establishing long term mutual beneficial association, Managing Trustee, Clue4 Evidence Foundation(R), S-522, 5<sup>th</sup> Floor, Manipal Centre, Dickenson Road, Bengaluru-560042 (Karnataka - India) and Shri Shivaji Science College, Amravati-444603 (Maharashtra) joined Memorandum of Understanding (MoU) from the session 2020-21. Both parties agree to exercise their best efforts to develop the following forms of cooperation:

1. Promote mutual understanding and academic collaboration.
2. Establish ties of friendship and cooperation in academic and research activities.
3. Exchange of Theoretical and practical guidance of various instruments of Instrumentation Cell to the B.Voc. in Forensic Science students.
4. To provide insights to each other regarding outcomes and benefits based on the successes and challenges of the forensic experience.
5. To create innovative models for initiating and strengthening collaborative activities
6. Challenging issue in Forensic Science
7. Organizing the Mutual Training programmes to develop skill manpower, course curriculum review, internship for students, technology updates, support in establishing laboratories and research projects



Principal  
 Shri Shivaji Science College,  
 AMRAVATI.

Admin Office : S-522, South Block, 5th Floor, Manipal Center, Dickenson Road, Bengaluru-560042, INDIA  
 E-mail : managingtrustee@clue4evidence.org | Tel : 88845 84646 | www.clue4evidence.org

Registration No.: BGR-4-00123-2019-20



# CLUE4 EVIDENCE FOUNDATION

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Both Managing Trustee, Clue4 Evidence Foundation(R), Bengaluru-560042 (Karnataka) and Shri Shivaji Science College, Amravati are committed to working on the Memorandum of Understanding (MoU). This Memorandum of Understanding (MoU) will provide logistical and administrative details appropriate to the successful operation of the programme.

We are aware of the pertinent Federal regulations and policies and are prepared to establish written agreements that will ensure compliance with all such policies.

Managing Trustee,  
Clue4 Evidence Foundation(R), Bengaluru-  
560042 (Karnataka)



Principal  
Shri Shivaji Science College,  
AMRAVATI.

---

Admin Office : S-522, South Block, 5th Floor, Manipal Center, Dickenson Road, Bengaluru-560042, INDIA  
E-mail : [managingtrustee@clue4evidence.org](mailto:managingtrustee@clue4evidence.org) | Tel : 88845 84646 | [www.clue4evidence.org](http://www.clue4evidence.org)

### Report

1. Name of the agency which signed the collaboration: Clue4 Evidence Forensic Investigations Private Limited (Clue4 Evidence Forensic Lab).
2. Activity Title: **Internship Program for Forensic Science students.**
3. Date of Activity: 01/04/2021 to 30/04/2021
4. No of Beneficiaries: 33 students
5. Report

### **One month Internship Program for Forensic Science Students at Clue4 Evidence Forensic Investigations Lab, Bengaluru, India.**

Clue4 Evidence Forensic Investigations Laboratory organized a one-month Internship program at Bengaluru for Forensic Science students from 01/04/2021 to 30/04/2021. Mr.B.N. Phaneendar, managing director of Clue4 Evidence Foundation took initiative as a course co-ordinator to effectively carry out the sessions of this course. In this internship total 33 students of B.Voc Forensic Science course of Shri Shivaji Science College, took participation. Mr. Phaneendar provided interns the training and experience at handling and analyzing Forensic evidences of various nature. Central focus was on performing activities such as accurate handling of evidences and learning while witnessing their analysis performed by the staff of forensic experts. This internship proved to be very beneficial for the students. They got a better understanding of how the evidences are handled and analyzed and how Forensic world works. The tasks that were performed helped them to gain an abundance of knowledge as they got to perform each task at their own pace. Going to another state helped them all with their soft skills as well.

Overall, this internship experience was extremely positive for the interns, as the skills learned during this time will help them with their respective careers and in their daily lives too.

### **1<sup>st</sup> Week of Internship Programme (01/04/2021)**

Mr. B.N. Phaneendar, Managing Director of Clue4 Evidence Foundation commenced the Internship Programme. The first week of this Internship/Training was dedicated for Handwriting and Signature Analysis, in which students learned about the features of Handwriting and signatures, which are crucial for cases of fraudulent documents. Mr. Phaneendar and his staff of Forensic experts including Ms. Ipsita Sahoo and Ms. Priya Chatterjee, provided students with hands on training in analysing fraudulent documents

He provided students the training regarding Comparing signatures, Marking their features, Forming a thorough report on it, Distinguishing between fraudulent and authentic cheques.

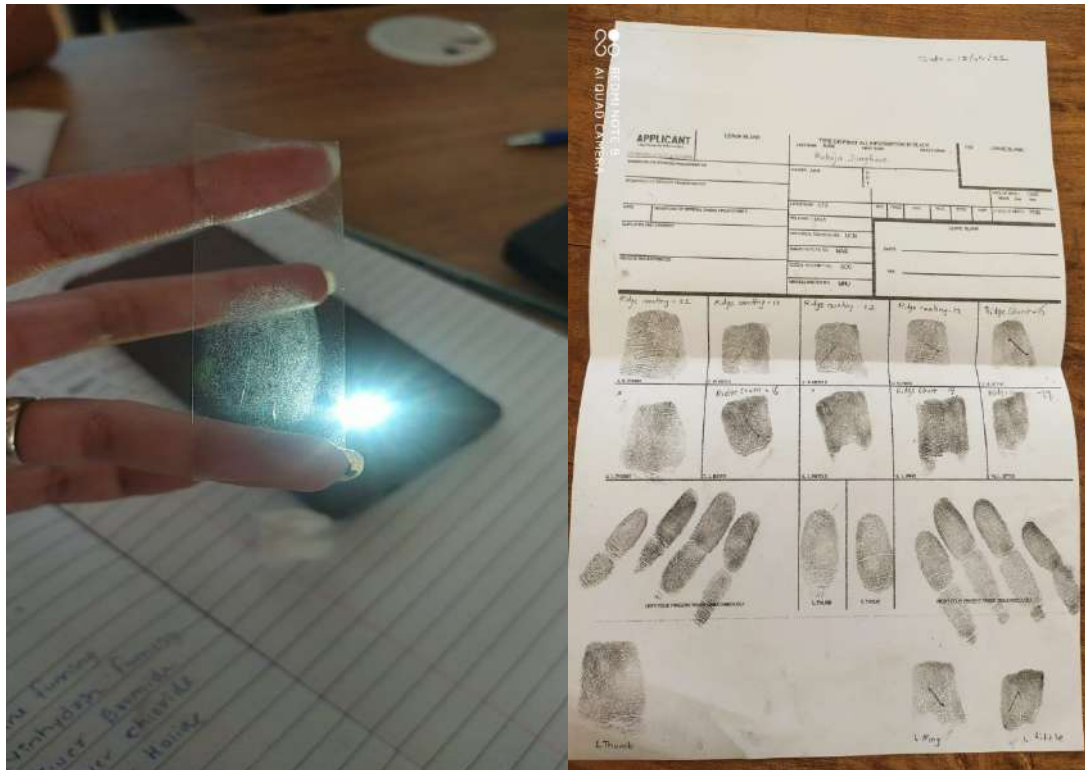
### **2<sup>nd</sup> Week of Internship Programme (06/04/2021)**

The second week was dedicated for the collection and analysis of Fingerprints. Mr. Phaneendar and his staff of Forensic experts taught all students the minute yet extremely important details regarding Fingerprints, for the purpose of analysing them efficiently.

He provided hands on training of the following activities:

- Development of Latent Fingerprints using black and white powders.

- Methods of collection of Fingerprints from various surfaces such as Tape Lifting method.
- Collection, comparison and analysis of Fingerprints sample evidences.
- Forming a thorough report of the Analysis.



Tape Lifting Method Fingerprint Sample

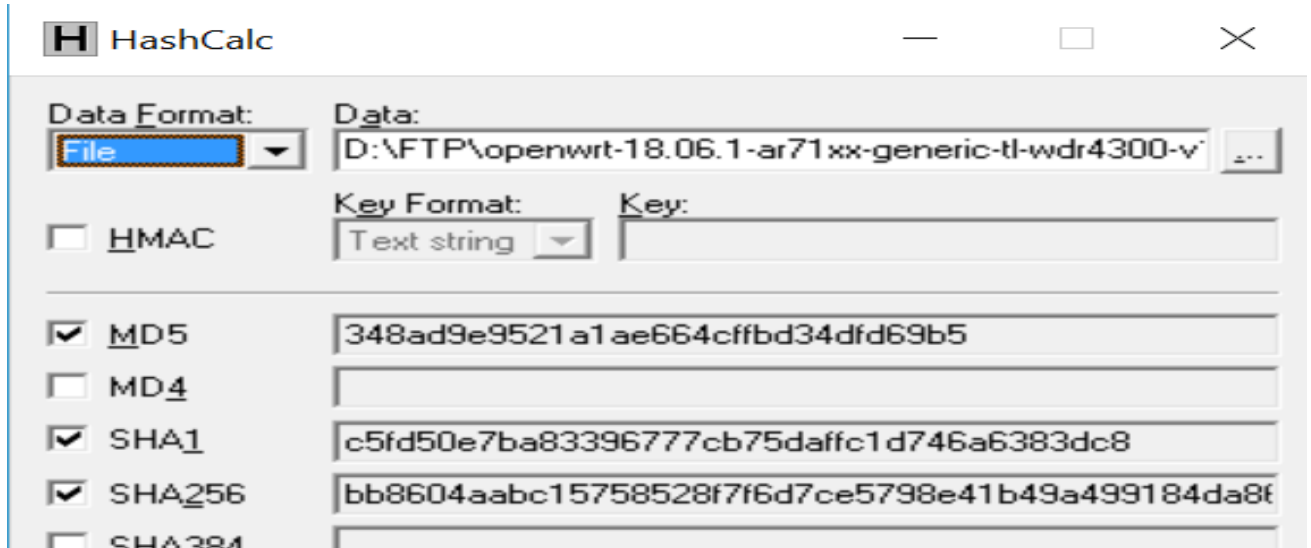
### 3<sup>rd</sup> Week of Internship Programme (13/04/2021)

The third week of the Internship Programme was dedicated for the branch of Digital and Cyber Forensics. Training regarding various digital Forensic tools that aids in investigation of Multimedia evidences was given to each student by Mr.Phaneedar.

Following activities were conducted during the sessions of Digital and Cyber Forensics

- Analysis of sample Audio evidences.
- Analysis of sample Video evidences.
- Checking the sample picture evidences for any kind of editing.
- Data recovery.
- Forensic Imaging.





Hash Calc for checking the authenticity of multimedia evidences.

### 4<sup>th</sup> Week of Internship Programme (20/04/2021)

The fourth and the final week of Internship was dedicated for the branch of Forensic Psychology. All the students learned several aspects of Criminal psychology in depth under the guidance of Mr. Phaneendar and his team of Forensic experts.

Following activities were conducted in the fourth week:

- Witnessing live Polygraph Test
- Learning its entire mechanism
- Creating accurate questionnaire for Polygraph Tests.
- Analysis of the Polygraph Test Reports.



Polygraph Test software measuring all bodily reactions in response to the questionnaire

## Valedictory Function of Internship Programme

The valedictory function was held on 30/04/2021. The function was chaired by Mr. B.N. Phaneendar, Forensic Expert, Managing Director of Clue4 Evidence Foundation, at Bengaluru, India. Participants gave their feedback about the Internship programme. The Internship programme was concluded with the distribution of certificates.



Interns with the Managing Director of Clue4 Evidence Foundation at the Valedictory Function.



**List of participants**

SR no.	Name	Class	College
1	Ms. Gaurangi k. Madane	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
2	Ms. Vedanti S. Chawande	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
3	Ms. Nandani D. Jadhav	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
4	Ms. Unnati B. Dhakade	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
5	Ms. Rutuja P. Meheshre	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
6	Ms. Namrata P. Wankhade	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
7	Ms. Payal S. Borwar	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
8	Ms. Gayatri J. More	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
9	Ms. Vishakha V. Ambhore	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
10	Ms. Rutuja R. Junghare	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
11	Ms. Vaibhavi R. Shende	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
12	Ms. Samruddhi D. Nawalkar	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
13	Ms. Ishwari P. Wankhade	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
14	Ms. Purva A. Wankhade	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
15	Ms. Amisha Bangde	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
16	Ms. Himani V. Gajbe	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
17	Ms. Muskan R. Gupta	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
18	Ms. Nilmani M. Giri	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
19	Ms. Tejaswini V. Pundkar	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
20	Ms. Kirti A. Solanke	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
21	Ms. Kshitija S. Chimote	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
22	Ms. Aishwarya B. Wahane	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
23	Ms. Suvidha V. Nage	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
24	Ms. Arpita D. Gadge	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
25	Mr. Prathmesh A. Kogade	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
26	Mr. Shivam S. Salunke	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt

27	Mr. Palash R. Raut	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
28	Mr. Himanshu A. Tagare	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
29	Mr. Ayush Bopche	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
30	Mr. Tushar S. Pawar	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
31	Mr. Akash B. Augad	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
32	Mr. Sahil R. Gupta	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt
33	Mr. Harish S. Chouthmal	B.voc 2 <sup>nd</sup> yr	Shri Shivaji Science College, Amt




## Internship Programme at ArrayGen Technologies Pvt. Ltd. Pune (M.S.)




# ARAVINDA BIOSOLUTIONS

### CERTIFICATE

This is to certify that the project /Dissertation entitled “**NEW ETHAMBUTOL ANALOGUE DESIGN FOR TUBERCULOSIS THROUGH COMPUTATIONAL METHOD** “ is a Bonafide work done by **Miss.Monika Murlidhar Mahankar** Student of M.sc-II (P.G.Department of Bioinformatics, Shri Shivaji Science College ,Amravati) in partial fulfilment for Master of science Degree in Bioinformatics and has been carried out under the guidance of **DR. MANOJ KUMAR REDDY** At Aravinda BioSolutions, Hyderabad during the **February-2021 to May- 2021**. This Report or a similar report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

  
(Mr. Raghu raj)  
Director



  
(Dr. MANOJ KUMAR REDDY)  
Project Guide

#### Aravinda Biosolutions

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E-mail: [arvindabio@gmail.com](mailto:arvindabio@gmail.com)

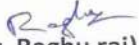
Phone: 091-40-66628773, 9391187818



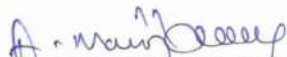
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## CERTIFICATE

This is to certify that **Miss. Komal Shyam Devkate** has completed the dissertation entitled “**NEW PECTOSTATIN ANALOGE DESIGN FOR BLOOD CANCER THROUGH COMPETITIONAL METHODS**” Under the supervision and guidance of **Dr. Manoj Kumar Reddy** at Aravinda Biosolutions, Hyderabad, submitted the project report during **February-2021 to May-2021** Laid down by **Sant Gadge Baba Amaravati University**. This dissertation is original, and no part of this work is either published or submitted in any university for the award of any degree or diploma. I consider this work worthy for the award of degree of Master of Science in Bioinformatics.

  
(Mr. Raghu raj)  
Director



  
(Dr. MANOJ KUMAR REDDY)  
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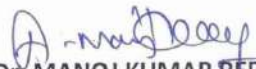
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## CERTIFICATE

This is to certify that the project / Dissertation entitled “NEW ACETYLCHOLINE ESTERASE INHIBITORS DESIGN FOR PARKINSON’S DISEASE.” Is a bonafide work done by **Miss. Poonam Manikrao Tayade** student M.Sc-II (P.G.Department of Bio-informatics, Shri.Shivaji Science college, Amravati) in partial fulfilment of Master of Science Degree in Bioinformatics and has been carried out under the supervision and guidance of **Dr. Manoj Kumar Reddy (Bioinformatics Division)** at Arvinda Biosolution Pvt,Ltd Hyderabad during **February-2021 to May-2021**. This report or a similar report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

  
(Mr. Raghu raj)  
Director



  
(Dr. MANOJ KUMAR REDDY)  
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Phone: 091-40-66628773, 9391187818



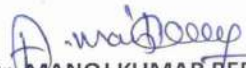
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This is to certify that **Miss. Prajakta Prakashrao Wadal** has completed the dissertation entitled “**NEW CHLORPROGUANIL ANALOG DESIGN FOR BREAST CANCER THROUGH COMPUTATIONAL METHODS**” Under by (Dr. Manoj Kumar Reddy at Aravinda Biosolutions, Hyderabad) guidance submitted the project report, Laid down by **Sant Gadge Baba Amravati University** during **February-2021 to May-2021**. This dissertation is original, and no part of this work is either published or submitted in any university for the award of any degree or diploma. I consider this work worthy for the award of degree of Master of Science in Bioinformatics.

  
(Mr. Raghu raj)  
Director



  
(Dr. MANOJ KUMAR REDDY)  
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Phone: 091-40-66628773, 9391187818



## Internship Programme at ArrayGen Technology

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Mobile: +91 9673625446

Website: [www.arraygen.com](http://www.arraygen.com)

CIN No.: U74900PN2015PTC157410

### Certificate

*This is to certify that **Miss. Akshata Kharbade** completed the project – **"Medicinal Crop Database"** Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.*



Place: Pune, India

Mr. Rajesh Kumar Mahato

Date: 28<sup>th</sup> February, 2021

(Founder & CEO)

ArrayGen Technologies Pvt.Ltd.

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**Website:** [www.arraygen.com](http://www.arraygen.com)

**CIN No.:** U74900PN2015PTC157410

## Certificate

*This is to certify that Mr. Ambarish Sahasrabuddhe completed the project – “Identify the mutation of Breast Cancer occurs in humans and check their quality by using the most dynamic tool.” Under my guidance and submitted the project report. Laid down by Shri Shivaji Science College, Amravati. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of M.Sc. Bioinformatics.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

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**Website:** [www.arraygen.com](http://www.arraygen.com)

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## Certificate

*This is to certify that **Miss. Trushita Pardakhe** completed the project – “**PCR primers designing.**” Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

Mr. Rajesh Kumar Mahato

(Founder & CEO)

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CIN No.: U74900PN2015PTC157410

## Certificate

*This is to certify that **Miss. Farheen Kausar Mohammad Aslam** completed the project – **“16S targeted metagenomics.”** Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

Mr. Rajesh Kumar Mahato

(Founder & CEO)

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**CIN No.:** U74900PN2015PTC157410

## Certificate

*This is to certify that **Mr. Nitin Adhav** completed the project – “**De Novo Rna-Seq Data Analysis**” Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

Mr. Rajesh Kumar Mahato

(Founder & CEO)

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CIN No.: U74900PN2015PTC157410

## Certificate

*This is to certify that Miss. Prajakta Pillewan completed the project – “Database on Taxonomy, Economic and Medicinal potential of weeds” Under my guidance and submitted the project report. Laid down by Shri Shivaji Science College, Amravati. The material that has been obtained from other source is duly acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of M.Sc. Bioinformatics.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

Mr. Rajesh Kumar Mahato

(Founder & CEO)

ArrayGen Technologies Pvt.Ltd.



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# Certificate of Participation

This Is To Certify That

*Samiksha Bidkar*

Has Participated For 2 Days/ Months

*Short Term Bioinformatics Training/ Workshop/ Internship*  
On

*“To study explored molecular events of jaridon 6’s anti-tumor activity in esophagal cancer cells through the cDNA microarray.”*

Organized By ArrayGen Technologies Pvt. Ltd

From 1<sup>st</sup> January, 2021 To 28<sup>th</sup> February, 2021



*Rajesh*  
Rajesh Kumar Mahato  
(Founder & CEO) ArrayGen  
Technologies Pvt. Ltd.,  
Pune, India



**ArrayGen Technologies Pvt. Ltd.**

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## Certificate

*This is to certify that Miss. Sampada Sarad completed the project – “Horticulture Crop Database” Under my guidance and submitted the project report. Laid down by Shri Shivaji Science College, Amravati. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of M.Sc. Bioinformatics.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

Mr. Rajesh Kumar Mahato

(Founder & CEO)

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CIN No.: U74900PN2015PTC157410

## Certificate

*This is to certify that Miss. Shivani Sable completed the project – “To study the exosomal MiRNA deep sequencing of hypertensive patients.” Under my guidance and submitted the project report. Laid down by Shri Shivaji Science College, Amravati. The material that has been obtained from other source is duly acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of M.Sc. Bioinformatics.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

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## Certificate

*This is to certify that Miss. Tejaswini Gunjal completed the project – “Rna seq Analysis STB5 overexpression in saccharomyces cerevisae” Under my guidance and submitted the project report. Laid down by Shri Shivaji Science College, Amravati. The material that has been obtained from other source is duly acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

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CIN No.: U74900PN2015PTC157410

## Certificate

This is to certify that **Miss. Anjali Pardakhe** completed the project – **“Denovo Based RNA Sequence Analysis.”** Under my guidance and submitted the project report. Laid down by **Shri Shivaji Science College, Amravati**. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of **M.Sc. Bioinformatics**.



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

Mr. Rajesh Kumar Mahato

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CIN No.: U74900PN2015PTC157410

## Certificate

*This is to certify that Miss. Vaishnavi Khedkar completed the project – “Field crop database.” Under my guidance and submitted the project report. Laid down by Shri Shivaji Science College, Amravati. The material that has been obtained from other source is duly, acknowledged in the dissertation. It is further certified that the work or its part has not been, submitted to any other university for examination under my supervision. I consider this work worthy for the award of degree of M.Sc. Bioinformatics.*



Place: Pune, India

Date: 28<sup>th</sup> February, 2021

Mr. Rajesh Kumar Mahato

(Founder & CEO)

ArrayGen Technologies Pvt.Ltd.



## Internship for the B.Voc. Students at State Forensic Science Laboratory, Rajasthan

II OFFICE OF THE DIRECTOR, STATE FORENSIC SCIENCE LABORATORY, RAJASTHAN, JAIPUR II

(Nehru Nagar, RPA Road, Jaipur, Phone- 01412301584, Fax 0141-2301859)

(e-mail-director.fsl@rajasthan.gov.in)

Kramank :- V-15(7)labo-jan/2020/

5421

Date: 10-11-21

To  
Dr. G.V Korpe  
Principal  
Shri Shivaji Science College,  
Amravati

Sub Internship training at Forensic Science Laboratory, Rajasthan

In reference to the subject and in compliance of permission by Director FSL request for Internship training to Students is accepted and They are permitted to get Internship training in Regional Forensic Science Laboratory, Rajasthan

S.NO	Name	Division & Place	Tenure
1.	Ishwari Wankhade	Ballistic/Division RFSL Bikaner	15.11.2021 To 15.02.2022
2.	Samruddhi Nawalkar	Ballistic/Division RFSL Bikaner	15.11.2021 To 15.02.2022
3.	Kshitija Chimote	Toxicology/ Division RFSL Bikaner	15.11.2021 To 15.02.2022
4.	Suvidha Nage	Toxicology/ Division RFSL Bikaner	15.11.2021 To 15.02.2022
5.	Rutujajunghare	Biology/ Division RFSL Bikaner	15.11.2021 To 15.02.2022
6.	Vaibhavi Shende	Biology/ Division RFSL Bikaner	15.11.2021 To 15.02.2022
7.	Gaurangi Madane	Chemistry/ Division RFSL Jodhpur	15.11.2021 To 15.02.2022
8.	Vedanti Chawande	Chemistry/ Division RFSL Jodhpur	15.11.2021 To 15.02.2022
9.	Himanshu Tagare	Document/ Division RFSL Jodhpur	15.11.2021 To 15.02.2022
10.	Shivam Salunke	Document/ Division RFSL Jodhpur	15.11.2021 To 15.02.2022
11.	Rachita Patil	Biology / Division RFSL Jodhpur	15.11.2021 To 15.02.2022
12.	Vishakha Ambhore	Biology / Division RFSL Jodhpur	15.11.2021 To 15.02.2022
13.	Nandini Jadhao	Toxicology/ Division RFSL Ajmer	15.11.2021 To 15.02.2022
14.	Namita Tank	Toxicology/ Division RFSL Ajmer	15.11.2021 To 15.02.2022
15.	Unnati Dhakade	Serology/ Division RFSL Ajmer	15.11.2021 To 15.02.2022
16.	Namrata Wankhade	Serology/ Division FSL Jaipur	15.11.2021 To 15.02.2022
17.	Rutuja Meshre	Serology/ Division FSL Jaipur	15.11.2021 To 15.02.2022
18.	Aishwarya Wahane	Toxicology/ Division RFSL Kota	15.11.2021 To 15.02.2022
19.	Kirti Solanke	Toxicology/ Division RFSL Kota	15.11.2021 To 15.02.2022
20.	Veena Kamble	Toxicology/ Division RFSL Kota	15.11.2021 To 15.02.2022

Signature  
10/11/2021  
P. F. O.

(2)

21.	Payal Borwar	Toxicology/ Division RFSL Kota	15.11.2021 To 15.02.2022
22.	Abdul Muzammil	Serology/ Division RFSL Kota	15.11.2021 To 15.02.2022
23.	Niraj Gadhawe	Serology/ Division RFSL Kota	15.11.2021 To 15.02.2022
24.	Arpan Damle	Serology/ Division RFSL Kota	15.11.2021 To 15.02.2022
25.	Harish Chouthmal	Serology/ Division RFSL Kota	15.11.2021 To 15.02.2022
26.	Ayush Bopche	Physics/ Division RFSL Kota	15.11.2021 To 15.02.2022
27.	Tushar Pawar	Physics/ Division RFSL Kota	15.11.2021 To 15.02.2022
28.	Akash Augad	Physics/ Division RFSL Kota	15.11.2021 To 15.02.2022
29.	Sahil Gupta	Chemistry/ Division FSL Jaipur	15.11.2021 To 15.02.2022
30.	Muskan Gupta	Chemistry/ Division FSL Jaipur	15.11.2021 To 15.02.2022
31.	Nilmani Giri	Toxicology/ Division RFSL Udaipur	15.11.2021 To 15.02.2022
32.	Tejaswini Pundkar	Toxicology/ Division RFSL Udaipur	15.11.2021 To 15.02.2022
33.	Prathamesh Kogade	Physics/ Division FSL Jaipur	15.11.2021 To 15.02.2022
34.	Amisha Bangde	Physics/ Division FSL Jaipur	15.11.2021 To 15.02.2022
35.	Shraddha Thakare	Biology/ Division RFSL Udaipur	15.11.2021 To 15.02.2022
36.	Arpita Gadge	Biology/ Division RFSL Udaipur	15.11.2021 To 15.02.2022
37.	Himani Gajbe	Biology/ Division RFSL Udaipur	15.11.2021 To 15.02.2022

During intership intern shall show discipline, sincerity, punctuality, professional intergirty and ethics and must follow safety rules of covid-19, Candidate would not be allowed to publish any data related to division without prior permission of Director FSL, Rajasthan.

(Dr. Rakhi Khanna)

Deputy Director (Training),  
State Forensic Science Laboratory,  
Forensic Training and Research Institute,  
Rajasthan, Jaipur.

Copy:

1. Director, State Forensics Science Laboratory, Rajasthan Jaipur,
2. Additional Director, Regional Forensic Science Laboratory, Jodhpur/Udaipur/Kota/  
Ajmer/Bikaner/Rajasthan

(3) मेधासक निदेशक (नैतिक) रसायन FSL लखनपुर्

Deputy Director (Training),

(2)

**Rajasthan Internship Selection Student List**

Sr. No.	Name of Applicant	D.O.B.	Phone No.	Email Address	Division
<b>Regional Forensic Science Laboratory, Bikaner</b>					
1	Ishwari Wankhade	08/11/2001	9823423336	ishuwankhade08@gmail.com	Ballistic
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3	Kshitija Chimote	28/08/2000	7741972421	kshitijachimote2@gmail.com	Toxicology
4	Suvidha Nage	14/05/2001	8830250313	nagesuvidha@gmail.com	Toxicology
5	Rutuja Junghare	08/06/2001	8530209147	rutujajunghare2001@gmail.com	Biology
6	Vaibhavi Shende	05/11/2001	9579313978	vaibhavishende49@gmail.com	Biology
<b>Regional Forensic Science Laboratory, Jodhpur</b>					
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8	Vedanti Chawande	29/12/2001	7262862558	vedantichawande@gmail.com	Toxicology
9	Himanshu Tagare	07/02/2001	7264873933	htagare07022001@gmail.com	Question Document
10	Shivam Salunke	14/01/2002	9307715903	shivamsalunke88063@gmail.com	Question Document
11	Rachita Patil	20/03/2001	9834828048	patilrachita330@gmail.com	Biology
12	Vishakha Ambhore	02/10/2001	9112021706	vishakhaambhore67@gmail.com	Biology
<b>Regional Forensic Science Laboratory, Ajmer</b>					
13	Nandini Jadhao	06/06/2001	8080407127	jadhaonandini6@gmail.com	Toxicology
14	Namita Tank	15/12/2001	7499081439	namitatank86@gmail.com	Toxicology
15	Unnati Dhakade	7/12/2001	9130927331	unnatidhakade@gmail.com	Serology
16	Namrata Wankhade	02/10/2000	9067321012	namratawankhade02@gmail.com	Serology
17	Rutuja Meheshre	26-10-2001	9764022575	rutujameheshre@gmail.com	Serology
<b>Regional Forensic Science Laboratory, Kota</b>					
18	Aishwarya Wahane	16/04/2002	9307778351	aishwaryawahane2516@gmail	Toxicology
19	Kirti Solanke	12/11/1999	9284615699	ksolanke1999@gmail. Com	Toxicology

20	Veena Kamble	30-5-2000	8806937587	veenakamble482@gmail.com	Toxicology
21	Payal Borwar	13/04/2002	9970966513	payalborwar54@gmail.com	Toxicology
22	Gayatri More	22/04/2001	9921027008	Moregayu901@gmail.com	Toxicology
<b>State forensic science laboratory, Jaipur</b>					
23	Abdul Muzammil	04/01/2002	9975026163	abmuzammil412002@gmail.com	serology
24	Niraj Gadhave	06/03/2002	9545772521	nirajgadhave@gmail.com	serology
25	Arpan Damle	17/08/2000	9860076189	Narendradamle007@gmail.com	physics
26	Ayush Bopche	12/05/2001	7517012814	ayushbopche69@gmail.com	physics
27	Tushar Pawar	03/09/2000	7083268917	tushar02pawar@gmail.com	physics
28	Akash Augad	09/05/2000	9422610714	lakashaugad@gmail.com	Chemistry
29	Harish Chouthmal	11/11/2001	9325197841	chouthmalharish@gmail.com	Chemistry
<b>Regional Forensic Science Laboratory, Udaipur</b>					
30	Sahil Gupta	14/06/2002	7020587021	sahilrg002@gmail.com	Chemistry
31	Muskan Gupta	03/03/2000	9405348722	muskanbgm12@gmail.com	Chemistry
32	Nilmani Giri	03/05/1999	8329523107	nilmanigiri5432@gmail.com	Toxicology
33	Tejaswini Pundkar	14/03/2001	9860407368	tejaswini.pundkar@gmail.com	Toxicology
34	Prathamesh Kogade	11/10/2001	7709407628	kogadeprathamesh@gmail.com	Question Document
35	Amisha Bangde	18/05/2000	9356103458	amishabangde@gmail.com	Question Document
36	Shraddha Thakare	13/02/2001	8600495797	shraddha.thakare13@gmail.com	Biology
37	Arpita Gadge	11/01/2001	9689662465	arpitagadge11@gmail.com	Biology
38	Himani Gajbe	19/04/2002	8530396328	himanigajbe1234@gmail.com	Biology



