

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)



# PROBLEM SOLVING METHODOLOGY

(2018-19 to 2022-23)

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Kaku Seth Ukka Marg, Chandra Nagar, Latur – 413512 (Maharashtra)
(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)
NAAC Accredited Grade B++ (Cycle 3) with CGPA 2.99, UGC-CPE (Phase-III) ISO: 9001:2015

**Criterion-II: Teaching-Learning and Evaluation** 

**Key Indicator 2.3: Teaching-Learning Process** 

2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process

**Problem Solving Methods** 



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#### Year: 2022-23

#### **Department of B.A. CEP:**

Name of the Activity	Date	Number of Participants
Village Survey (Shiur)	12-02-2023	77







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#### **Department of Computer Science:**

Name of the Activity	Date	Number of Participants
Mind Fest Competition	29-08-2022	69





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#### **Department of Information Technology:**

Name of the Activity	Date	Number of Participants
National Level Hackathon Competition RSM-HACKATHON-S-23	12-04-2023	260





Chairperson Dr. Mahadev Gavhane, Vice Principal Prof. Sadashiv Shinde felicitating the Competition Judges Mr. Mahesh Jadhav, Mr. Rupesh Patil, Mr. Ashish Dake and Kanhaiya Madole.





Students participant giving information of the models made by them.

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Name of the Activity	Date	Number of Participants
Website Development (Developing, Maintenance, Uploading)	2022-23	10



Students were felicitated by mentor for winning prize in Avishkar **Competition 2023** 



Students were felicitated for winning prize in RSM-HACKATHON competition

NAAC SSR Cycle-IV

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#### **Support Unit:**

Name of the Activity	Date	Number of Participants
Latur District Level Avishkar : 2023	14-10-2022	194







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#### **Department of Chemistry & Analytical Chemistry:**

Name of the Activity	Date	Number of Participants
One Day National Conference on "A Journey from Innovation to Startup (JIS-2022)" and "Innovation of RISE"	13-04-2022	200





Banner of the Conference

Dr Prakash Wadgaonkar interacting with the participants



Dr Prakash Wadgaonkar addressing the participants



Principal Dr Mahadev Gavhane welcoming Dr Prakash Wadgaonkar

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## ग्रामीण विद्यार्थ्यांमध्ये उद्योजकीय गुणवत्ता





Principal Dr Mahadev Gavhane welcoming the Guest

#### Newspaper clipping of the conference

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#### **Department of History:**

Name of the Activity	Date	Number of Participants
Quiz Competition	10-08-2022 to 13-08-2022	44





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**Department of Geography:** 

Name of the Activity	Date	Number of Participants
Quiz Competition	31-01-2023	31





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NAAC Accredited Grade B++ (Cycle 3) with CGPA 2.99, UGC-CPE (Phase-III) ISO: 9001:2015

#### Year: 2021-22

#### **Department of Economics:**

Name of the Activity	Date	Number of Participants
Outreach Program : Awareness of	23-03-2022	40
Savings and Investment	23-03-2022	40





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#### **Department of Commerce:**

Name of the Activity	Date	Number of Participants
Commerce Idol 2022	25-02-2022	293



**Students attending Commerce Idol 2022 Exam** (Commerce Idol 2022 25.02.2022)



Students attending Commerce Idol 2022 Exam (Commerce Idol 2022 25.02.2022)



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#### **Department of Geography:**

Name of the Activity	Date	Number of Participants
One Day Village Survey (Social Economics)	20-03-2022	19







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#### **Department of B.A. CEP:**

Name of the Activity	Date	Number of Participants
Outreach Activity : Prevention of Public	10-08-2021 to	45
Amenities and Awareness Program	12-08-2021	45





**Amenities and Awareness Program.** 



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#### **Department of Commerce:**

Name of the Activity	Date	Number of Participants
Outreach Activity on Cyber Security at Kasargaon 2021-22 on the Occasion of Azadi Ka Amrut Mahotsav	28-10-2021	11







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Year: 2020-21

#### **Department of Information Technology:**

Name of the Activity	Date	Number of Participants
RSM Hackathon Competition	05-07-2021 to 14-07-2021	148





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Year: 2019-20

**Department of Information Technology:** 

Name of the Activity	Date	Number of Participants
Mobile App Development	23-10-2019	254







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NAAC Accredited Grade B++ (Cycle 3) with CGPA 2.99, UGC-CPE (Phase-III) ISO: 9001:2015

#### Year: 2018-19

#### **Department of English:**

Name of the Activity	Date	Number of Participants
Avishkar Research Festival	19-12-2018	1



Miss. Shaikh Shagufta with her presentation at Avishkar Research Festival.





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#### **Department of Information Technology:**

Name of the Activity	Date	Number of Participants
RSM-HACKATHON Competition	12-02-2019	503







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Name of the Activity	Date	Number of Participants
Website Development	15-09-2018	03

Shiv Chhatrapati Shikshan Sanstha's

#### Rajarshi Shahu Mahavidyalaya (Autonomous),

Near Central Bus Stand, Chandra Nagar, Latur-413512 (Maharashtra)

Affiliated To Swami Ramanand Teerth Marathwada University, Nanded

Arts, Commerce, Science, Comp. Sci. & I.T., Biotechnology and B. Voc.

NAAC Accredited B\*\* Grade (3rd Cycle) with CGPA 2.99

Dr. Gopalrao Patil President

Anirudh Jadhav Secretary

Dr. Mahadev Gavhane Principal

Ref.No. RSM/Cert./2021-22/ 129

Date: 02.07.2021

#### EXPERIENCE CERTIFICATE

This is to certify that Mr. Omkar Sadanand Bolshette (B.Sc.CS. T.Y.) worked as an Web Designer for updation of college website with our Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, during the period from September 15, 2018 to till date.

During this time with Rajarshi Shahu Mahavidyalaya, Mr. Omkar has remained dedicated and loyal to his work and responsibilities.

His responsibilities included Web designing and updating our college website to ensure they meet necessary standards, ensuring safe and secure data storage, assisting with network administration tasks and resolving all coworker complaints and issues regarding website.

Hence this certificate.

LATUR-413 512

E-mail: principal@shahucollegelatur.org.in, Website: www.shahucollegelatur.org.in Ph.: (02382) 245933, 245380 Fax: (02382)253645 Jr.Sci. College: (02382)253656

Scanned with CamScanner

**Experience Certificate** 

NAAC SSR Cycle-IV



## Rajarshi Shahu Mahavidyalaya, Latur

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Shiv Chhatrapati Shikshan Sanstha's

#### Rajarshi Shahu Mahavidyalaya (Autonomous),

Near Central Bus Stand, Chandra Nagar, Latur-413512 (Maharashtra) Affiliated To Swami Ramanand Teerth Marathwada University, Nanded Arts, Commerce, Science, Comp. Sci. & I.T., Biotechnology and B. Voc. NAAC Accredited B\*\* Grade (3rd Cycle) with CGPA 2.99

Dr. Gopalrao Patil President

Anirudh Jadhav Secretary

Dr. Mahadev Gavhane Principal

Ref.No. RSM/Cert./2020-21/13730\_

Date: 05.02.2021

#### EXPERIENCE CERTIFICATE

Mr. Gunale Rushikesh Bhagvath,

Latur.

This letter certifies we allocate Mr. Gunale (B.Sc.CS. T.Y.) as an Web Designer and for updation of website with our Rajarshi Shahu Mahavidyalya (Autonomous), Latur, during the period beginning September 10, 2018 and ending till to date.

During his time with Rajarshi Shahu Mahavidyalaya, Mr. Gunale has remained dedicated and loyal to his work and responsibilities with our college.

His responsibilities included Web designing and updating our college website to ensure they meet necessary standards, ensuring safe and secure data storage, assisting with network administration tasks and resolving all coworker complaints and issues regarding website.

I can confirm, he possesses the strong analytical and problem solving skills needed to diagnose, resolve and maintain IT systems and technology and has excellent verbal and written communication skills. He has done an exemplary job while in his role as an web developer at college.

He has always maintained a professional and courteous attitude and appearance while with our company.

We wish him all the best in his future career opportunities.

avidyalaya (Autonomous), Latur

E-mail: principal@shahucollegelatur.org.in, Website: www.shahucollegelatur.org.in Ph.: (02382) 245933, 245380 Fax: (02382)253645 Jr.Sci. College: (02382)253656

**Experience Certificate of Students** 



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#### **Support Unit:**

Name of the Activity	Date	Number of Participants
Avishkar : District, University State	15-01-2018 to 19-	24
Level Competition.	01- 2018	24



District level Avishkar winners are felicitated by Principal Dr. Mahadev Gavhane and vice principal Dr. A.J. Raju, Dr.E.U. Masumdar., Mr. V.K. Kamble and Avishkar Coordinator, Dr. D.S. Rathod.



University Level Avishkar winners felicitated by Principal Dr. Mahadev Gavhane and Vice Principal Dr. A.J. Raju and others

# सिव छवपती सिक्सण संस्था लानुर

#### Shiv Chhatrapati Shikshan Sanstha's

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# 2018-19 Department of Chemistry and Analytical Chemistry:

Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
APPLICATION OF BIGINENELLI REACTIONS IN ORGANIC SYNTHESIS	Throughout the year	03
SYNTHESIS OF XANTHENE DERIVATIVES USING IONIC LIQ. UNDER SOLVENT FREE CONDITIONS	Throughout the year	03
COMPARATIVE STUDY FOR SYNTHESIS OF 6-AMINO-4-ARYL-3-METHYL-1,4- DIHYDROPYRANO DERIVATIVES BY DIFF. EXPERIMENTAL CONDITION	Throughout the year	03
SYNTHESIS OF CHLCONE DERIVATIVES USING S & N CONTAINING HETEROCYCLIC COMPOUND	Throughout the year	03
SYNTHESIS OF AZODYES FROM VARIOUS AROMATIC AMINES	Throughout the year	03
TO STUDY KINETICS OF OXIDATION OF ALANINE BY CERRIC SULPHATE IN SULPHURIC ACID MEDIUM	Throughout the year	03

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Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
SYNTHESIS OF 4-BROMO TETRAHYDROPYRAN	Throughout the year	2
SYNTHESIS OF SCHIFFS BASE & ITS COMPLEXES	Throughout the year	5
SYNTHESIS OF CHALCONE DERIVATIVES USING SULPHUR AND NITROGEN CONTAINING HETEROCYCLE	Throughout the year	4
SYNTHESIS OF PORPHYRINS & ITS DERIVATIVES	Throughout the year	4
SYNTHESIS OF SUBSTITUTED BENZIMIDAZOLE DERIVATIVES & THEIR CHARACTERISATION	Throughout the year	4
SYNTHESIS, CHARACTERIZATION & BIOLOGICAL EVALUATION OF BENZALDEHYDE DERIVED SCHIFF'S BASES	Throughout the year	03
SYNTHESIS OF NEW 2-ARYL-5-METHYL- 2,3-DIDYDRO1-H 3- PYRAZOLONES VIA FISCHER INDOLE REACTION	Throughout the year	4
SYNTHESIS OF 2,4,6 – TRISUBSTITUTED TETRAHYDROPYRAN	Throughout the year	2
Total =		

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Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
REVIEW STUDY OF METAL COMPLEXES OF DHA SCHIFF BASES.	Throughout the year	6
REVIEW ON NATURAL COUMARINE LEAD COMPOUNDS FOR HEIRPHARMACOLOGICAL ACTIVITY	Throughout the year	8
GREEN BIOCHEMISTRY APPROACH FOR SYNTHESIS OF SILVER NANOPARTICLES USING ABELMOSCHUS ESCULENTUS LATEX	Throughout the year	4
REVIEV ON DYE SENSITISED SOLAR CELL	Throughout the year	4
REVIEW STUDY OF SYNTHESIS AND CHARACTERIZATION OF ORGANIC NANO PARTICLES	Throughout the year	5
REVIEW OF APPLICATION OF NANOPARTICLES IN TARGETED DRUG DELIVERY	Throughout the year	4
Total =		

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Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
Synthesis and Characterization of Schiff Bases Derived from Aromatic Aldehyde	Throughout the year	05
Synthesis, Characterization and Antibacterial Activity of DHA Schiff Bases	Throughout the year	08
Synthesis of Indole and its Derivative	Throughout the year	5
Synthesis of Pyrimidine Derivatives From different Chalcones by using Thiourea	Throughout the year	4
Synthesis of Activated Carbon from waste Material (Bambu)	Throughout the year	4
Fabrication and Characterization of Novel Mono terpinoid Base Dye	Throughout the year	6
Spectral and Electrochemical Study of Synthesized Anatase phase – TiO2 Nanoparticles	Throughout the year	6
Synthesis of Biologically Active Heterocyclic Compounds	Throughout the year	4
Synthesis of Biologically Active Heterocyclic	Throughout the year	7
Synthesis of Heterocyclic Compounds from Chalcone	Throughout the year	4
Synthesis, Characterization and Antibacterial Activity of Some Heterocyclic Compounds	Throughout the year	3
Synthesis of Coumarin Derivatives Via Pechmann Condensation	Throughout the year	4
Synthesis, Characterization and Antibacterial Activity of Some Chalcones Thiadiazole Derivatives	Throughout the year	5
Total =		65

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	2022-23	
Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
SYNTHESIS & CHARACTERIZATION OF METAL COMPLEXES DERIVED FROM SALICYLALDEHYDE	Throughout the year	6
SYNTHESIS OF BIOACTIVE HETEROCYCLIC MOTIFS	Throughout the year	4
SYNTHESIS OF LOWSONE BASED NEWER DYE	Throughout the year	6
GREEN APPROACH TO SYNTHESIS OF TETRAHYDROPYRIMIDINE THIONES VIA PYRAZOLE ALDEHYDE	Throughout the year	4
SYNTHESIS OF LOWSONE BASED NEWER DYE	Throughout the year	6
SYNTHESIS & CHARACTERIZATION OF SCHIFF BASES DERIVED FROM SALICYLALDEHYDE	Throughout the year	5
SYNTHESIS & BIOLOGICAL ACTIVITY OF NOVEL DERIVATIVES OF QUINOXALINE	Throughout the year	4
SYNTHESIS, CHARACTERISATION & BIOLOGICALY ACTIVITY OF NOVEL SCHIFF BASES	Throughout the year	4
SYNTHESIS OF TELLURIUM DOPED HETEROGENOUS METAL OXIDE NANOPARTICLES	Throughout the year	8
STUDY OF VALORIZATION OF SOLAR CELL EFFICIENCY AFTER SENSITIZATION WITH DYE	Throughout the year	4
SCHIFF BASES EVOLUTION AND BIOLOGICAL ACTIVITY	Throughout the year	4
SYNTHESIS, CHARACTERISATION & ANTIMICROBIAL ACTIVITY OF SOME BIOACTIVE HETEROCYCLES	Throughout the year	5
SYNTHESIS OF LAWSONE BASED BIOACTIVE HETEROCYCLIC COMPOUNDS	Throughout the year	2
EXPLORATION ON EFFICIENT LIGHT TO ELECTONVERSION EFFICIENCY ON THIN FILM	Throughout the year	4

# स्थित छत्रपती सिक्सण संस्था सानुर

#### Shiv Chhatrapati Shikshan Sanstha's

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# Department of Physics: 2018-19

Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
GAMMA RAY ABSORPTION COEFFICIENT AND ITS EFFECT ON GERMINATION AND PRESERVATION OF GARLIC	Throughout the year	3
CONCENTARTION DEPENDENT STRUCTURAL,OPTICAL AND ELECTROCHEMICAL PROPERTIES OF MOO3 THIN FILMS	Throughout the year	03
SYNTHESIS AND CHARACTERIZATION OF SNO2 THIN FILMS BY CHEMICAL BATH DEPOSITION	Throughout the year	3
STRUCTURAL AND ELECTRICAL PROEPRTIES OF CDS AND AL-DOPED CDS THIN FILMS DEPOSITED BY SPRAY PYROLYSIS	Throughout the year	3
SYNTHESIS OF ZNO ANOSTRUCTURES USING SOL-GEL METHOD.	Throughout the year	3
OPTICAL AND ELECTRICAL PROPERTIES OF SNS2 THIN FILMS DEPOSITED BY SPRAY PYROLYSIS	Throughout the year	3
SPRAY PYROLYSIS DEPOSITION OF SNO2 THIN FILMS AND THEIR CHARACTERIZATION	Throughout the year	3
SYNTHESIS AND CHARACTERIZATION OF CHEMICAL BATH DEPOSITED ZNO THIN FILM	Throughout the year	3

Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
AUTOMATIC SOLAR PANEL CLEANING	Throughout the year	03
SYSTEM USING IOT		
PREPARATION AND CHARACTERIZATION	Throughout the year	04
OF NANOSTRUCTURED NICKEL OXIDE		
THIN FILMS BY SPRAY PYROLYSIS		
INVESTIGATIONS ON SNXSYTHIN FILM	Throughout the year	03
BY CHEMICAL SPRAY PYROLYSIS		

# स्तिव छवपती विश्वण संस्था लातूर

#### Shiv Chhatrapati Shikshan Sanstha's

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SYNTHESIS AND CHARACTERIZATION OF AL DOPED ZNO NANOSTRUCTURES USING SOL-GEL METHOD	Throughout the year	7
NI DOPED SNO2THIN FILMS BY CHEMICAL SPRAY PYROLYSIS	Throughout the year	04
SOME STUDIES ON NI DOPED CDS THIN FILMS DEPOSITED BY SPRAY PYROLYSIS TECHNIQUE	Throughout the year	04
STRUCTURAL AND OPTICAL PROPERTIES OF SPRAY DEPOSITED FE DOPED CDS THIN FILMS	Throughout the year	03
TOTAL		28

Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
ABSORPTION COEFFICIENT OF GAMMA	Throughout the year	05
PARTICLESBY POTATO AND IT'S EFFECT	o ,	
ON GERMINATION		
"PREPARATION AND HARACTERIZATION	Throughout the year	6
OF CU2SNS3 THIN FILM BY SPRAY		
PYROLYSIS TECHNIQUE"		
IOT BASED HEART RATE MONITOR	Throughout the year	03
USING MAX30100PULSE OXIMETER AND		
ESP8266		
ELECTROCHEMICAL SUPERCAPACITIVE	Throughout the year	06
PROPERTIES OF SPRAYDEPOSITED MOO3		
THIN FILMS		
IOT BASED AIR QUALITY MONITORING	Throughout the year	3
SYSTEM		
"STUDY OF MN DOPING ON STRUCTURAL,	Throughout the year	3
OPTICAL AND MAGNETIC PROPERTIES		
OF CUO NANOPARTICLES"		
WATER SPLITTING OF INITIAL	Throughout the year	03
ELECTROLYSIS		
TOTAL		29

# हित्व छवपमी विवक्य संस्था नातुर

#### Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Kaku Seth Ukka Marg, Chandra Nagar, Latur – 413512 (Maharashtra) (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)

NAAC Accredited Grade B++ (Cycle 3) with CGPA 2.99, UGC-CPE (Phase-III) ISO: 9001:2015

#### 2021-22

Name of the Activity : Field		
work/projects/ internships / student	Date	Number of Beneficiaries
projects		
Photon Attenuation coefficient of Al, Cu &Fe using 0.662 MeV Gamma Rays	Throughout the year	03
Automatic Upper Dipper Module	Throughout the year	3
I/R Remote Control On/Off Switch	Throughout the year	3
Knock/Vibration Activated Alarm	Throughout the year	4
Alcohol Detection system in vehicle using Arduino	Throughout the year	3
Attenuation Coefficients of soybean for 0.662 MeV Gamma Rays Photons & its effect on sprout Growth	Throughout the year	3
Synthesis & Characterization on ZnFe2O4 thin films by spray pyrolysis	Throughout the year	3
Study of thin film of SnO2 by chemical spray pyrolysis technique & Characterization	Throughout the year	1
Concentration dependent ZnFe2O4 thin film for Supercapacitor Application	Throughout the year	3
Non-Tourch Automatic Door Open-Close & Body Temp. Detector	Throughout the year	3
TOTAL =		29

Name of the Activity : Field work/projects/ internships / student projects	Date	Number of Beneficiaries
GENERATION OF ELECTRICITY BY	Throughout the year	2
USING RENEWABLE ENERGY SOURCES		
ABSORPTION COEFFICIENTS OF RADIO	mbbb	2
ACTIVE RADIATIONS IN SOME SEEDS	Throughout the year	3
AND CROPS		
AUTOMATIC SPRAY PYROLYSIS SETUP BY	Throughout the year	10
USING ARDUINO		
TOTAL =		15



#### Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

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#### Internship/OJT







## Mr.Sumit Pendharkar

is successfully completing 03 month hands on PHP Development during

02/10/2022 to 02/01/2023



15/01/2023 DATE



NAAC SSR Cycle-IV

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Kaku Seth Ukka Marg, Chandra Nagar, Latur - 413512 (Maharashtra) (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)







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527, Gera's Imperium Rise, Phase II. Rajiv Gandhi Infotech Park, Hinjawadi, Pune, Maharashtra - 411057.

Date: 18-Feb-2023

#### TO WHOMSOEVER IT MAY CONCERN

We are pleased to confirm that, Madole Yash Audumbar has successfully completed his/her internship with Queenshera Infotech Pvt. Ltd. during the period of 01-Dec-2022 to 15-Feb-2023

During internship, he/she demonstrated a strong work ethic and dedication to assigned tasks. His/her contributions to the company were much appreciated, and he/she showed a willingness to learn and take on new challenges.

While interning with us, he/she has undergone training on Web Development using HTML, CSS and JS and worked on following project:

Project undertaken: Grahak India Admin Panel Designing.

During the period of internship, he/she participated in team, worked on covering all aspects of internship and has shown enthusiasm to learn the technologies.

We hope that the skills and knowledge he/she had acquired during internship will be useful in his/her future endeavors. We wish all the best for their future endeavours.

Thanks and regards

Ashish P. Dake Authorized Signatory





















# Rajarshi Shahu Mahavidyalaya, Latur

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#### Code Clause

#### To Whom So IT May Concern

Date - 11 / 03 / 2023

This is to certify that Bhalerao Ajay Vitthal, Bos Rajarshi shahu college latur is working as an intern with CodeClause from the period Feb-2023 To Mar-2023.

During this period he handled Python Development Intern position.

During the course of the Internship, Bhalerao Ajay Vitthal has shown a great amount of responsibility, sincerity, and a genuine willingness to learn and zeal to take on new assignments and challenges. In particular, his coordination skills and communication skills are par excellence and his attention to details is impressive

We wish all the very best for your future.

CodeClause







# Shiv Chhatrapati Shikshan Sanstha's Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

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## Rajarshi Shahu Mahavidyalaya, Latur

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#### SAVITRIBAI PHULE PUNE UNIVERSITY

(formerly University of Pune)

DEPARTMENT OF BOTANY SAVITRIBAI PHULE PUNE UNIVERSITY Ganeshkhind, Pune-411007 Tele. No.: (020)25601439, 25601438

E-mail : .....@unipune.ac.in

Ref. No.: Bot/

Date: 10-4.2023

#### CERTIFICATE

This is to certify that Ms. Supriya Vijaykumar Chounde has completed the project entitled 
Rhizobial remediation of magnesium sulphate' under my guidance at the Department of 
Botany, Savitribai Phule Pune University, Pune, for the requirement of partial fulfilment of 
M.Sc. in Biotechnology of Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, Maharashtra 
is a record of candidate's own work carried out by her.

Dr. Avinash B. Ade Senior Professor Department of Botany Savitibal Phule University Pune - 411007



# Rajarshi Shahu Mahavidyalaya, Latur

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Tel: 020-2532 5000, 2565 3680 Fax: 020-2565 1542

web : www.aripune.org

E-mail: director@aripune.org

महाराष्ट्र असोसिएशन फॉर द कल्टिव्हेशन ऑफ सायन्स

आघारकर अनुसंधान संस्थान

(विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार के अधिन स्वायत्त संस्थान)

गो. ग. आगरकर पथ, पुणे - ४११ ००४.

Maharashtra Association for the Cultivation of Science

AGHARKAR RESEARCH INSTITUTE

(An Autonomous Body under the Department of Science and Technology, Govs. of India) G. G. Agarkar Road, Pune - 411 004.

#### CERTIFICATE

certify that the project work presented in the dissertation entitled "An investigation into the impact of trace elements on biomethane production from rice straw" has been carried out by Mr. Sagar Vilas Dande under my direct supervision and guidance. The reported research work has not formed the basis of academics of any other degree/ diploma/ associateship/ fellowship or other similar title to any candidate of this or any other university. Further, he was a regular student and has worked full time at the Bioenergy Group, Agharkar Research Institute until the submission to the Department of Biotechnology, Rajarshi Shahu Mahavidyalaya, Latur (Maharashtra).

Place: Agharkar Research Institute, Pune

Date: 17.04.2023

Dr. Sumit Singh Dagar (Guide)



## Rajarshi Shahu Mahavidyalaya, Latur

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Kaku Seth Ukka Marg, Chandra Nagar, Latur – 413512 (Maharashtra) (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)

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## सीएसआईआर - राष्ट्रीय रासायनिक प्रयोगशाला

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद) डॉ. होमी भाभा मार्ग, पुणे - 411 008, भारत

#### **CSIR - NATIONAL CHEMICAL LABORATORY**

(Council of Scientific & Industrial Research) Dr. Homi Bhabha Road, Pune - 411 008, India



#### Certificate of the Guide

is to certify that Mr. Akash Somnath Davane, student of 5\6 years Integrated w.Sc/M.Tech Biotechnology at Rajarshi Shahu Mahavidyalaya, Latur, Maharashtra, has secressfully completed his dissertation thesis project work, entitled "Electroantennographic esponse of Helicoverpa armigera (Hübner) (Lepidoptera: Noctuidae) to a range of plant aciatile compounds" in partial fulfilment of the 5th year project for the award of the degree regrated M.Sc. Biotechnology during the period July 2022 to December 2022 in the aboratory of Entomology, Division of Organic Chemistry, CSIR-National Chemical Laboratory, are under my supervision.

accratory of Entomology,

Sission of Organic Chemistry,

3 R-National Chemical Laboratory,

Homi Bhabha Road, Pune, India

NCL Level DID : 2590 NCL Board No.

+91-20-25902000 +91-20-25893300 +91-20-25893400 FAX

Director's Office : +91-20-25902601 COA's Office : +91-20-25902660 SPO's Office +91-20-25902664

WEBSITE www.ncl-india.org



# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

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## National Centre for Microbial Resource

Member of WFCC, An IDA under Budapest Treaty, DNR of MoEF

राष्ट्रीय कोशिका विज्ञान केंद्र | National Centre for Cell Science

#### CERTIFICATE

This is to certify that the work described in this thesis entitled "Species level identification of Bacillus sp. strains belongs to Bacillus subtilis and B. pumilus group using FAME analysis" for the partial fulfilment of Degree of Master of Science in Biotechnology at Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, Maharashtra has been carried out by Miss. Rajashree Vitthal Yelale under my supervision and guidance at National Centre for Microbial Resource (NCMR), National Centre For Cell Science, Pune during the period July 2022 to January 2023. I certify that this is her bonafide work. The work described is original and has not been submitted for any degree to this or any other University.

Date: - 10/01/2023

Place: - Pune, India

Dr Neetha Joseph

Scientist 'C',

National Centre for Microbial Resource (NCMR),

National centre for cell science (NCCS),

Sai trinity, Pashan, Pune

साई ट्रिनिटी कॉम्प्लेक्स, सुस रोड, पाषाण, पुणे–४११ ०२१. महाराष्ट्र, भारत. Sai Trinity Complex, Sus Road, Pashan, Pune- 411 021. Maharashtra, INDIA दरभाष / Tel: +9120 25329000



## Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

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4/12/23, 10:41 AM

Gmail - SRF Selections - 2023



Pooja Bhuse <br/>
<br/>
bhusepooja78@gmail.com>

#### SRF Selections - 2023

jointsrf@ias.ac.in <jointsrf@ias.ac.in> To: bhusepooja78@gmail.com

11 April 2023 at 16:03

Ms P G Bhuse At. Ganeshwadi Tq. Shirur Anantpal Dist. Latur Latur 413512 [Maharashtra] Ph 8459208107

Dear Ms Bhuse

This has reference to your application ENGS3260 for an IASC-INSA-NASI Summer Research Fellowship in 2023. We are happy to offer you a Fellowship to work for two months during this summer subject to verification of your marks as stated by you in the application with the marks sheets. You will be working with Dr Rajesh P. Barnwal, Central Mechanical Engineering Research Institute, Durgapur (e-mail: barnwal.r@gmail.com, r

We have tried as far as practicable to assign you to a guide who works in your area of interest. Where that has not been possible, you will work with the assigned guide in a related area that will be determined by the guide, and trust that the experience will be fruitful to you. We will not be able to make any change in this regard.

This Fellowship is subject to the following norms:

- The duration of the Fellowship is eight weeks (56 days including Sundays and General Holidays), and is not to be reduced. If you do not complete this requirement, you will not be paid the fellowship amount and the certificate that is usually issued on completion.

usually issued on completion.

\* You will be provided a III-ter A/c train fare from Latur to CMERI, Durgapur and back.

\* If you are NOT an INSPIRE/KVPY Fellowship holder, you will be paid a Fellowship of 12,500/- per month towards your boarding, lodging, local transport expenses\*. Those who are in receipt of INSPIRE/KVPY Fellowship will be covered by a separate arrangement, the details of which will be sent later.

\* For local accompandation, please contact your quirte who can help you. The Academy office will not be able to help.

For local accommodation, please contact your guide who can help you. The Academy office will not be able to help

Please also go through carefully & comply with all the Instructions given in the attached sheet.

You are advised to get in touch with Dr Barnwal immediately to work out the exact period of your visit. In the meantime, You are advised to get in touch with Dr Barnwal immediately to work out the exact period of your visit. In the meantime, please communicate with Mrs M.S. Roopashri, Coordinator, Science Education Program, your acceptance of this Fellowship. We would need a joining report from you upon your arrival, and a brief report of your work at the end of four weeks so that your Fellowship for the first month can be paid. After the receipt of the final report, we shall release the remaining amount due to you along with your travel fare.

We urge you to convey your acceptance of this fellowship within 7 days by both online (the userid and password given at the bottom of the email) as well as by returning the Form of Acceptance posted to you. Even if you are not able to accept the fellowship, this should be communicated to the Academy immediately (both by email and in the Form of Acceptance email: jcintsrl@ias.ac.in) so that the fellowship can be offered to another candidate in the waiting list.

With best wishes.

Yours sincerely,

Professor P.K. Das Chair, Joint Science Education Panel, IASc

\* It is recommended that each Summer Research Fellow be covered by a personal health/accident insurance policy during the period of summer-training. The Academies will not provide any insurance cover. Therefore, the responsibility for purchase of insurance rests with you.

https://mail.google.com/mail/u/0/?ik=2490534115&view=pt&search=all&permthid=thread-f:1762875602752887693&simpl=msg-f:1762875602752887693 1/2



## Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

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4/12/23, 10:46 AM

Gmail - SRF Selections - 2023



Disha Mitkari <dishamitkari045@gmail.com>

#### SRF Selections - 2023

jointsrf@ias.ac.in <jointsrf@ias.ac.in> To: dishamitkari045@gmail.com

Tue, Apr 11, 2023 at 5:21 PM

Ms Disha Mitkari Radha Krishna Nagar Latur 413512 [Maharashtra] Ph 9370288732

Dear Ms Disha,

This has reference to your application ENGS5209 for an IASc-INSA-NASI Summer Research Fellowship in 2023. We are happy to offer you a Fellowship to work for two months during this summer subject to verification of your marks as stated by you in the application with the marks sheets. You will be working with Prof. Siba K. Udgata, University of Hyderabad, Hyderabad (e-mail: skudgata@gmail.com).

We have tried as far as practicable to assign you to a guide who works in your area of interest. Where that has not been possible, you will work with the assigned guide in a related area that will be determined by the guide, and trust that the experience will be fruitful to you. We will not be able to make any change in this regard.

This Fellowship is subject to the following norms:

- The duration of the Fellowship is eight weeks (56 days including Sundays and General Holidays), and is not to be reduced. If you do not complete this requirement, you will not be paid the fellowship amount and the certificate that is usually issued on completion
- You will be provided a III-tier A/c train fare from Latur to UOH, Hyderabad and back.

  If you are NOT an INSPIRE/KVPY Fellowship holder, you will be paid a Fellowship of 12,500/- per month towards your boarding, lodging, local transport expenses\*. Those who are in receipt of INSPIRE/KVPY Fellowship will be covered by a separate arrangement, the details of which will be sent later.
- For local accommodation, please contact your guide who can help you. The Academy office will not be able to help you in this regard.

Please also go through carefully & comply with all the Instructions given in the attached sheet.

You are advised to get in touch with Prof. Udgata immediately to work out the exact period of your visit. In the meantime, please communicate with Mrs M.S. Roopashri, Coordinator, Science Education Program, your acceptance of this Fellowship. We would need a joining report from you upon your arrival, and a brief report of your work at the end of four weeks so that your Fellowship for the first month can be paid. After the receipt of the final report, we shall release the remaining amount due to you along with your travel fare.

We urge you to convey your acceptance of this fellowship within 7 days by both online (the userid and password given at the bottom of the email) as well as by returning the Form of Acceptance posted to you. Even if you are not able to accept the fellowship, this should be communicated to the Academy immediately (both by email and in the Form of Acceptance email: jointsrf@ias.ac.in) so that the fellowship can be offered to another candidate in the waiting list.

With best wishes,

Yours sincerely

Professor P.K. Das Chair, Joint Science Education Panel, IASc

\* It is recommended that each Summer Research Fellow be covered by a personal health/accident insurance policy during the period of summer-training. The Academies will not provide any insurance cover. Therefore, the responsibility for purchase of insurance rests with you.

NAAC SSR Cycle-IV



# Rajarshi Shahu Mahavidyalaya, Latur

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#### SCIENCE ACADEMIES' SUMMER RESEARCH FELLOWSHIP PROGRAMME

P.B. No. 8005, C.V. Raman Avenue, Sadashiyanagar Post, Bengaluru 560 080 Telephone (080) 2266 1207, 2266 1202, 2266 1221, Fax (080) 2361 6094 Email: sumfet@iss ac in Website www.ias.ac.in

Date: 12 March 2020

Ms Shradha Bharatrao Deshmukh Deshmukh Nivas Basaweshawar Chowk Latur 413512 (Maharashtra)

Dear Ms Shradha,

This has reference to your application CHES2714 for an IASC-INSA-NASI Summer Research Fellowship in 2020. We are happy to offer you a Fellowship to work for two months during this summer subject to verification of your marks as stated by you in the application with the marks sheets. You will be working with Dr Parag R. Gogate, Institute of Chemical Technology, Mumbai (e-mail: pr.gogate@ictmumbai.edu.in, paraggogate a vahoo.co m)

We have tried as far as practicable to assign you to a guide who works in your area of interest. Where that has not been possible, you will work with the assigned guide in a related area that will be determined by the guide, and trust that the experience will be fruitful to you. We will not be able to make any change

This Fellowship is subject to the following norms

- The duration of the Fellowship is eight weeks (56 days including Sundays and General Holidays). and is not to be reduced. If you do not complete this requirement, you will not be paid the fellowship amount and the certificate that is usually issued on completion.
- You will be provided a second class [sleeper class] train fare from Latur to ICT. Mumbai and back.
- If you are NOT an INSPIRE KVPY Fellowship holder, you will be paid a Fellowship of Rs. 12,500 per month towards your boarding, lodging and local transport expenses\*. Those who are in receipt of INSPIRE KVPY Fellowship will be covered by a separate arrangement, the details of which will be
- As regards accommodation, please contact Dr Gogate as the Academy is not able to help you in this regard

Please also go through carefully & comply with all the Instructions given in the attached sheet.

You are advised to get in touch with Dr Gogate immediately to work out the exact period of your visit. In the meantime, please communicate with Mr C S Ravi Kumar, Coordinator, Science Education Programme, your acceptance of this Fellowship. We would need a joining report from you upon your arrival, and a brief report of your work at the end of four weeks so that your Fellowship for the first month can be paid. After the receipt of the final report, we shall release the remaining amount due to you along with your travel fare

We urge you to convey your acceptance of this fellowship within 7 days by both online (the userid and password given at the bottom of the email) as well as by returning the Form of Acceptance posted to you. Even if you are not able to accept the fellowship, this should be communicated to the Academy immediately (both by email: sumfela ias.ac.in with a cc to your guide; and in the Form of Acceptance) so that the fellowship car be offered to another candidate in the waiting list

With best wishes

Yours sincerely

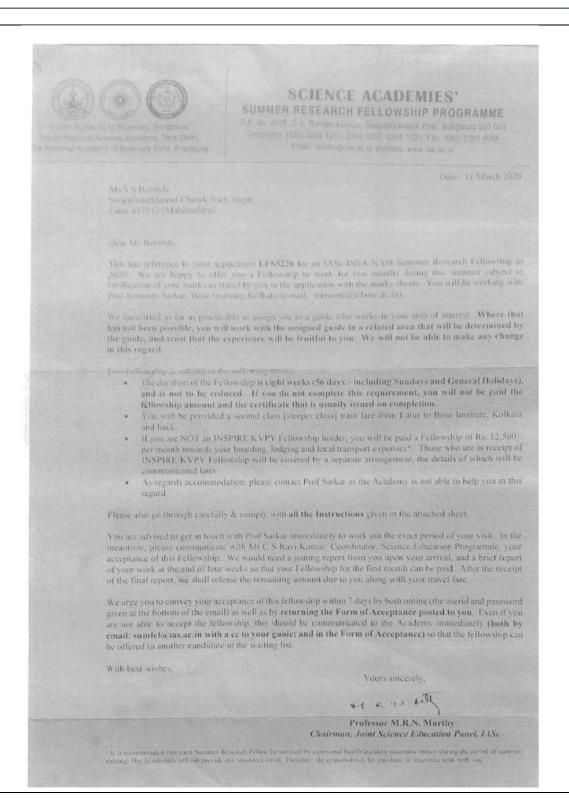
Professor M.R.N. Murthy Chairman, Joint Science Education Panel, LASe



## Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

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## वित्व छत्रपति विश्वण संस्था सानुर । अगोड सम्बन्ध रेजीवे ।।

#### Shiv Chhatrapati Shikshan Sanstha's

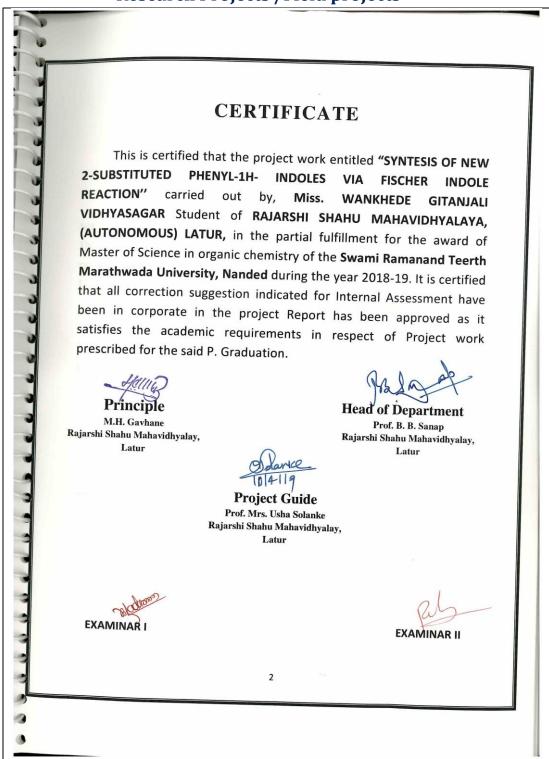
## Rajarshi Shahu Mahavidyalaya, Latur

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#### **Research Projects / Field projects**



## विश्व छवानी विश्वण संस्था सान्य आज्ञत सम्बा

#### Shiv Chhatrapati Shikshan Sanstha's

## Rajarshi Shahu Mahavidyalaya, Latur

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## **CERTIFICATE**

This is certified that the project work entitled "SYNTESIS OF NEW 2-SUBSTITUTED PHENYL-1H- INDOLES VIA FISCHER INDOLE REACTION" carried out by, Miss. SURYAWANSHI SWATI PRAKASH Student of RAJARSHI SHAHU MAHAVIDHYALAYA, (AUTONOMOUS) LATUR, in the partial fulfillment for the award of Master of Science in organic chemistry of the Swami Ramanand Teerth Marathwada University, Nanded during the year 2018-19. It is certified that all correction suggestion indicated for Internal Assessment have been in corporate in the project Report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said P. Graduation.

Principle M.H. Gavhane Rajarshi Shahu Mahavidhyalay,

Latur

Head of Department
Prof. B. B. Sanap
Rajarshi Shahu Mahavidhyalay,
Latur

Project Guide
Prof. Mrs. Usha Solanke

Rajarshi Shahu Mahavidhyalay,

Latur

EXAMINAR I

EXAMINAR II

2

## विश्व इत्रयानी विश्वण संस्था सान्य आर्डाट समामी ज्योति।

#### Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

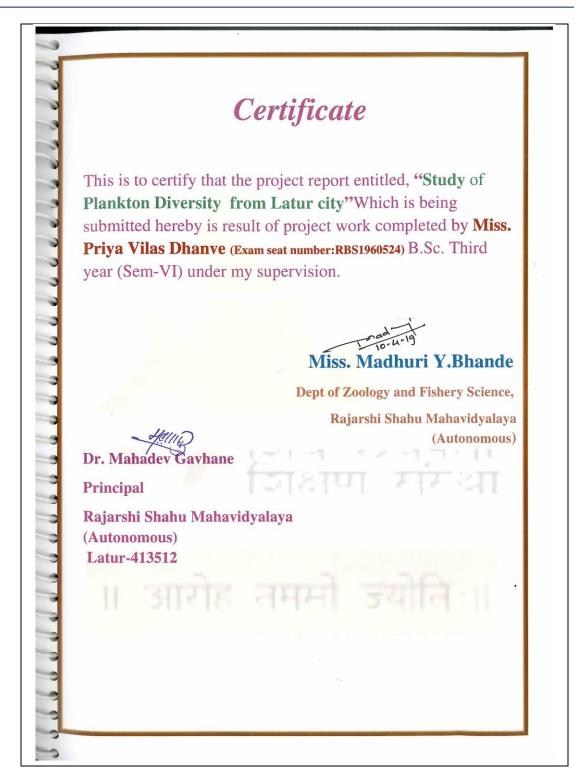
Kaku Seth Ukka Marg, Chandra Nagar, Latur – 413512 (Maharashtra) (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)



## Shiv Chhatrapati Shikshan Sanstha's Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

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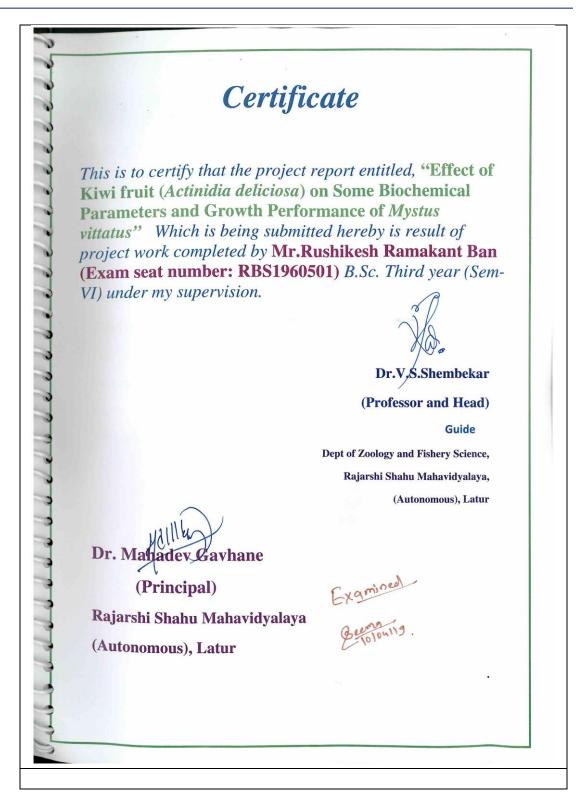
## दित्व छवपनी विश्वण संस्था सानुर अगोर्ड सम्बद्धाः क्योरिड।

#### Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

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## Rajarshi Shahu Mahavidyalaya, Latur

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NAAC Accredited Grade B++ (Cycle 3) with CGPA 2.99, UGC-CPE (Phase-III) ISO: 9001:2015



## Certificate

This is to certify that the work presented in the project entitled "Studies on seed mycoflora of Groundnut" submitted in the fulfillment of the Degree of Master of Science. The project work is completed by Miss Uzma Hamid Tamboli, under my supervision and Guidance and to the best of our knowledge; this work in the report has not performed earlier for the Award of Degree of other university or Examination Body.

Prof. S. N. Shinde

Dept. of Botany, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Mr. D. R. Awad

Dept. of Botany, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur.

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## हित्व छापनी विस्तुण संस्था सानुर आरोडा स्वस्था ज्योति ।

## Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

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(Autonomous College)





A Project Report on

"Showing Industrial Production Resions and Solution"

Submitted By	Roll No.	Exam Seat No.
Mr. Galte Aniket Balasaheb	99	RDS2061825
Mr. Sayyad Ansar Nisar	100	RDS2061885

Bsc.cs - III year (VI sem.) Academic Year 2019-2020

Subject : Personality Development &

Interview Techniques

Cource code : U-PDI-714

Under the Guidance of

Prof. Rahul Athawale

NAAC SSR Cycle-IV

# वित्व छन्नपती वित्रकाण संस्था संसूर

## Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

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# हित्व छवपती विवाग संस्था लान्द

## Shiv Chhatrapati Shikshan Sanstha's

## Rajarshi Shahu Mahavidyalaya, Latur

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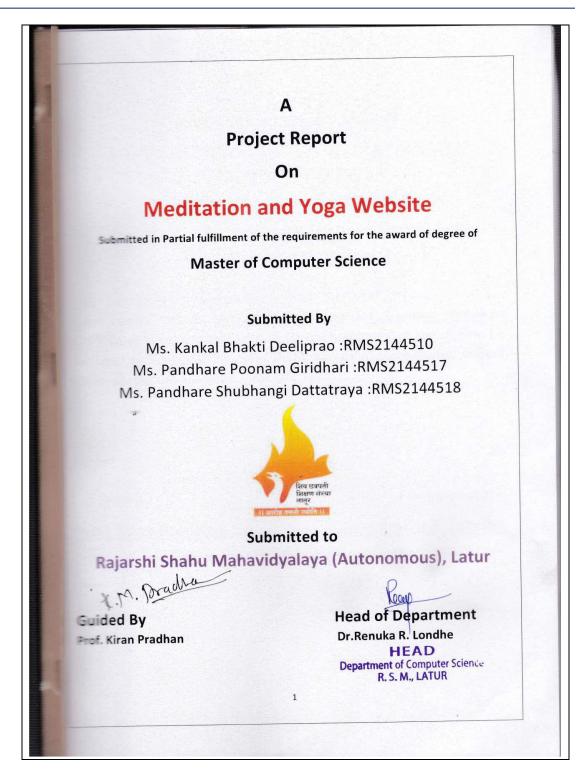
# हितब छवपती विश्वण संस्था सात्र्

#### Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

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# हित्व छवपनी विज्ञाण संस्था सान्य

## Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

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Shiv Chhatrapati Shikshan Sanstha's

## RAJARSHI SHAHU MAHAVIDYALAYA (AUTONOMOUS), LATUR

#### **CERTIFICATE**

This is to certify that the project entitled "Project on Employee Retention, Training And Development In Banking Sector." has been carried out by Mr./Ms. Bidve Shreya Kashinath whose seat no. is RCS2161217 under my guidance in partial fulfillment of the degree i.e. Bachelor of Commerce of Rajarshi Shahu Mahavidyalaya (Autonomous), Latur during the academic year 2020-21.

Guided by
Miss. Jaya M. Nahata

**Head of Department** 

Dr. A. J. Raju

HEAD

Dept. of Commerce

Rajarshi Shahu Mahavidyalaya



# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

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## स्तिव छवपनी विश्वण संस्था लानूर (अपनेत सम्बन्धे ज्योतिश)

#### Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Kaku Seth Ukka Marg, Chandra Nagar, Latur – 413512 (Maharashtra) (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)



## नित्व छत्रपती दिश्वण संस्था लातूर 11 आसीत, समाने ज्योति।।

#### Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Kaku Seth Ukka Marg, Chandra Nagar, Latur – 413512 (Maharashtra) (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)



# दिन्व छजपमी दिवाण संस्था लात्

## Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Kaku Seth Ukka Marg, Chandra Nagar, Latur – 413512 (Maharashtra) (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)





# Rajarshi Shahu Mahavidyalaya, Latur

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## Shiv chatrapati shikshan sanstha. Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

#### Certificate

This is to certify that Miss/Mr -Lakshete vedanti baburao

Class:- BSC III YEAR Semester:- VI SEMISTER With Seat number :-RBS2360927

Has completed the project work, as a part of
syllabus, entitled CHID VACCINATION FROM RURAL AREA

Under the supervision of Dr. Dr. Deepak vedapathak

Hence the certificate Date: 11/04/2023

Supervisor

(Dr/ Miss. Dr. Deepak vedapathak)

Head, HEAD
Dept. of Microbiology
Department of Microbiology
LATOR - 412

Principal PRINCIPAL Rajarshi Shahu Mahavidyalaya, Latus (Autonomous)

# दिवब छजपमी दिवकण संस्था सामु

## Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Kaku Seth Ukka Marg, Chandra Nagar, Latur – 413512 (Maharashtra) (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)



# हित्व छवपती विवाग संस्था लान्द

## Shiv Chhatrapati Shikshan Sanstha's

# Rajarshi Shahu Mahavidyalaya, Latur

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Date: 18/01/2024

Principal